



KLE's  
G.I. Bagewadi Arts, Science & Commerce College, Nipani-  
591237

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

### SPECIAL HIGHLIGHTS

1. Duration of the course: 35 days
2. Commencing From : 10 April 2021,  
@ 5:00 pm to 5:40 pm daily.
3. Platform : Zoom App
4. Participants need to show their response by providing Feedback every evening.
5. Certificates will be shared to all the participants who attend more than 80 % of the classes.
6. WhatsApp Group will be created before the commencement of course for further communications.

## Department of Commerce

### ONLINE CERTIFICATE COURSE IN

## Office Automation & e-Governance



Online Platform



» Register now

<https://forms.gle/tyb82vwCiQsWnhW97>

Prof. B.G.Kankanawadi

Prof. Abhijeet Tavakari

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K.L.E. Society's  
**G. I. Bagewadi Arts, Science and Commerce College, Nipani- 591237**  
**Karnataka India**

Accredited at 'A' level by NAAC with CGPA 3.35

**Department of Commerce**

Online Certificate Course

On

**“Office Automation and e- Governance”**

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**Course Instructor**

  
**HOD**  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
**IQAC Coordinator**  
IQAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.

  
**Principal**  
**PRINCIPAL**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani





K.L.E Society's  
G. I. Bagewadi Arts, Science & Commerce College, Nipani  
Certificate Course on Office Automation & e-Governance

REGISTRATION FORM

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**G. I. Bagewadi Arts, Science, & Commerce College, Nipani**  
**[Re-Accredited at 'A' Grade by NAAC with 3.35 CGPA]**

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**Department Of Commerce**  
**Online Intercollegiate Certificate Course 2020-2021**

**Title: Office Automation and E-Governance**

**Objective of the Course:**

To provide an in-depth training in use of Office Automation packages, internet and intranet tools which is essential for a modern office for day to day office management, and e-governance. The course also helps candidates to get acquainted with IT and Cyber laws, Taxes, Financial rules to be followed in public and Private offices.

**Syllabus:**

SLNo.	Topics	Duration
01	<b>Computer &amp; Internet:</b> Desktop computers, Block diagram of a computer, Input and output devices, memory and storage devices, different ports and its uses, Different type of printers. Software: OS, Windows OS, Application software. Networking, different LAN and WAN connections, connecting to a network, testing connection, Internet, IP address, Hypertext, Uniform Resource Locator, Web Browsers, IP Address, Domain Name, Internet Services Providers, Internet Security, Internet Requirements, Web Search Engine, Net Surfing, Internet Services.	6Hrs
02	<b>Windows XP :</b> Windows concepts, Features, Windows Structure, Desktop, Taskbar, Start Menu, My Computer, Recycle Bin, Windows Accessories- Calculator, Notepad, Paint, WordPad, Character Map, Windows Explorer, Entertainment, Managing Hardware & Software- Installation of Hardware & Software, Using Scanner, System Tools, Communication, Sharing Information between programs.	6Hrs
03	<b>Word Processing; MS Word:</b> Features, Creating, Saving and Opening Documents in Word, Interface, Toolbars, Ruler, Menus, Keyboard Shortcut, Editing, Previewing, Printing, & Formatting a Document, Advanced Features of MS Word, Find & Replace, Using Thesaurus, Using Auto- Multiple Functions, Mail Merge, Handling Graphics, Tables & Charts, Converting a word document into various formats like- Text, Rich Text format, Word perfect, HTML, PDF etc.	6Hrs
04	<b>Worksheet- MS-Excel:</b> Worksheet basics, creating worksheet, entering into worksheet, heading information, data, text, dates, alphanumeric values, saving & quitting worksheet, Opening and moving around in an existing worksheet, Toolbars and Menus, Keyboard shortcuts, Working with single and multiple workbook, working with formulae & cell referencing, Auto sum, Coping formulae, Absolute & relative addressing, Worksheet with ranges, formatting of worksheet, Previewing & Printing worksheet, Graphs and charts, Database, Creating and Using macros, Multiple worksheets- concepts, creating and using.	6Hrs
05	<b>E-governance:</b> E-government, need of e-governance, e-assistance, e- democracy, e-administration, citizen services, e-procurement, Mobile government, Law and policies, IT Act, Right for Information Act, Introduction to various TAX Payable, Purchase & Tender procedures and E-filing of Information.  E-governance implementations: Software and Hardware required for E- governance Implementation, E-governance in a Small Office, Web Portal for E-governance.	6Hrs

  
Staff in Charge



  
HOD

**KLE'S**  
**G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI**  
**DEPARTMENT OF COMMERCE**

Class taken report



**Title:** Office Automation and e-Governance

**Class:** B.com VI Semester

**Course Instructor:** Prof. Abhijeet Tavakari

Sl.No	Date	Zoom Id	Password	Google Drive Link	No. of Students Attended
1	10.04.2021	75605482174	9955		30
2	12.04.2021	77072648952	9955	<a href="https://drive.google.com/file/d/1xd9j_0zJplgbXyTSIQkkSEe_Ek4SDwVw/view?usp=sharing">https://drive.google.com/file/d/1xd9j_0zJplgbXyTSIQkkSEe_Ek4SDwVw/view?usp=sharing</a>	30
3	15.04.2021	72535395563	12345	<a href="https://drive.google.com/file/d/1FzcPc2CLPAOxPqP0IVbR_Y9WudLFLu3v/view?usp=sharing">https://drive.google.com/file/d/1FzcPc2CLPAOxPqP0IVbR_Y9WudLFLu3v/view?usp=sharing</a>	30
4	16.04.2021	71517046855	9955	<a href="https://drive.google.com/file/d/1BQKwIT9oE-Y_ikzfadzuZoV7LkTtqvL5/view?usp=sharing">https://drive.google.com/file/d/1BQKwIT9oE-Y_ikzfadzuZoV7LkTtqvL5/view?usp=sharing</a>	41
5	17.04.2021	76227775961	9955	<a href="https://drive.google.com/file/d/1zSwGt4evfIVIJLCCHJ_75sssQ_jC6P/view?usp=sharing">https://drive.google.com/file/d/1zSwGt4evfIVIJLCCHJ_75sssQ_jC6P/view?usp=sharing</a>	30
6	19.04.2021	72300841451	9955	<a href="https://drive.google.com/file/d/1MSONrv4Jd3HGgm3CeOETmqTeiS9-1Qu6/view?usp=sharing">https://drive.google.com/file/d/1MSONrv4Jd3HGgm3CeOETmqTeiS9-1Qu6/view?usp=sharing</a>	30
7	20.04.2021	71758978489	9955	<a href="https://drive.google.com/file/d/1Fbj9bRctgoS7-PCaIdrA9bp5Do21HI0/view?usp=sharing">https://drive.google.com/file/d/1Fbj9bRctgoS7-PCaIdrA9bp5Do21HI0/view?usp=sharing</a>	30
8	21.04.2021	71769601205	9955	<a href="https://drive.google.com/file/d/1zSwGt4evfIVIJLCCHJ_75sssQ_jC6P/view?usp=sharing">https://drive.google.com/file/d/1zSwGt4evfIVIJLCCHJ_75sssQ_jC6P/view?usp=sharing</a>	30
9	22.04.2021	74820010185	9955	<a href="https://drive.google.com/file/d/1JXZkXq1zEiinhlac6HSa7rolU5VdKCJf/view?usp=sharing">https://drive.google.com/file/d/1JXZkXq1zEiinhlac6HSa7rolU5VdKCJf/view?usp=sharing</a>	30
10	23.04.2021	74504429188	9955	<a href="https://drive.google.com/file/d/1U1nxtIzF6u-WgTScfHjwI9GA09BVbqO8/view?usp=sharing">https://drive.google.com/file/d/1U1nxtIzF6u-WgTScfHjwI9GA09BVbqO8/view?usp=sharing</a>	30
11	26.04.2021	71952603338	9955	<a href="https://drive.google.com/file/d/1zSwGt4evfIVIJLCCHJ_75sssQ_jC6P/view?usp=sharing">https://drive.google.com/file/d/1zSwGt4evfIVIJLCCHJ_75sssQ_jC6P/view?usp=sharing</a>	30
12	27.04.2021	79344418550	rckB68	<a href="https://drive.google.com/file/d/13jw_wJhqW8cs4FsXEBeHYFEu8jwYjaDF/view?usp=sharing">https://drive.google.com/file/d/13jw_wJhqW8cs4FsXEBeHYFEu8jwYjaDF/view?usp=sharing</a>	30
13	28.04.2021	78183636974	9955	<a href="https://drive.google.com/file/d/1ywoThOKNYzA24U14JPYfG5JFOeeMkN3i/view?usp=sharing">https://drive.google.com/file/d/1ywoThOKNYzA24U14JPYfG5JFOeeMkN3i/view?usp=sharing</a>	30

14	03.05.2021	79992649024	9955	<a href="https://drive.google.com/file/d/1HbRNSxm2xsNMDDLgKN9Z4KBd6IHML0vN/view?usp=sharing">https://drive.google.com/file/d/1HbRNSxm2xsNMDDLgKN9Z4KBd6IHML0vN/view?usp=sharing</a>	30
15	04.05.2021	76980866630	9955	<a href="https://drive.google.com/file/d/16Siq4le_x35cPCyIV1oXfvpVZZMtGjNu/view?usp=sharing">https://drive.google.com/file/d/16Siq4le_x35cPCyIV1oXfvpVZZMtGjNu/view?usp=sharing</a>	30
16	05.05.2021	76694618437	9955	<a href="https://drive.google.com/file/d/14ySBYrge2Vol0_ikBw9jmZb9IreZtj77/view?usp=sharing">https://drive.google.com/file/d/14ySBYrge2Vol0_ikBw9jmZb9IreZtj77/view?usp=sharing</a>	30
17	06.05.2021	77177473585	9955	<a href="https://drive.google.com/file/d/1AzvrfM2SGfQBPIk8r11R_k1o9E1PKrg/view?usp=sharing">https://drive.google.com/file/d/1AzvrfM2SGfQBPIk8r11R_k1o9E1PKrg/view?usp=sharing</a>	30
18	07.05.2021	73433354505	9955	<a href="https://drive.google.com/file/d/1zSwGt4evfTVJlLCCHJ_75sssQ_iC6P/view?usp=sharing">https://drive.google.com/file/d/1zSwGt4evfTVJlLCCHJ_75sssQ_iC6P/view?usp=sharing</a>	30
19	08.05.2021	77666544817	9955	<a href="https://drive.google.com/file/d/1qN5rMD-PRp3D3TAXMDbBJIS6R8q2omEx/view?usp=sharing">https://drive.google.com/file/d/1qN5rMD-PRp3D3TAXMDbBJIS6R8q2omEx/view?usp=sharing</a>	30
20	10.05.2021	75662531252	9955	<a href="https://drive.google.com/file/d/1PcPOZvRvrkHu0BZQqndhwLTfYR2Emihv/view?usp=sharing">https://drive.google.com/file/d/1PcPOZvRvrkHu0BZQqndhwLTfYR2Emihv/view?usp=sharing</a>	30
21	12.05.2021	74560965309	9955	<a href="https://drive.google.com/file/d/1Qd560zs-ApHwuvVMK11N1fMb1NM3pF3Y/view?usp=sharing">https://drive.google.com/file/d/1Qd560zs-ApHwuvVMK11N1fMb1NM3pF3Y/view?usp=sharing</a>	30
22	13.05.2021	71681990356	9955	<a href="https://drive.google.com/file/d/1HbRNSxm2xsNMDDLgKN9Z4KBd6IHML0vN/view?usp=sharing">https://drive.google.com/file/d/1HbRNSxm2xsNMDDLgKN9Z4KBd6IHML0vN/view?usp=sharing</a>	30
23	14.05.2021	71443181033	9955	<a href="https://drive.google.com/file/d/190AAJ8uSKU4jNoTehSwJoJ8SemtxUDRU/view?usp=sharing">https://drive.google.com/file/d/190AAJ8uSKU4jNoTehSwJoJ8SemtxUDRU/view?usp=sharing</a>	30
24	15.05.2021	79820350127	9955	<a href="https://drive.google.com/file/d/1kK6MaTZq8Fb7vSw4OOrFKUkZhsAO7So/view?usp=sharing">https://drive.google.com/file/d/1kK6MaTZq8Fb7vSw4OOrFKUkZhsAO7So/view?usp=sharing</a>	30
25	18.05.2021	7280127765	9955	<a href="https://drive.google.com/file/d/1qSq_YupQBb86ajNlpVxdOz6ecobNDIJC/view?usp=sharing">https://drive.google.com/file/d/1qSq_YupQBb86ajNlpVxdOz6ecobNDIJC/view?usp=sharing</a>	30
26	19.05.2021	77603621362	9955	<a href="https://drive.google.com/file/d/1vRR0spo9bcokT7npCSHdtVRe3Sn2bH92/view?usp=sharing">https://drive.google.com/file/d/1vRR0spo9bcokT7npCSHdtVRe3Sn2bH92/view?usp=sharing</a>	30
27	20.05.2021	76345517258	9955	<a href="https://drive.google.com/file/d/1ywoThOKNYzA24U14JPYfG5IF0eeMkN3i/view?usp=sharing">https://drive.google.com/file/d/1ywoThOKNYzA24U14JPYfG5IF0eeMkN3i/view?usp=sharing</a>	30
28	21.05.2021	78497594930	9955	<a href="https://drive.google.com/file/d/1reOa1dhOu24pJ1oOqsCNLm6X9_NtNNCV/view?usp=sharing">https://drive.google.com/file/d/1reOa1dhOu24pJ1oOqsCNLm6X9_NtNNCV/view?usp=sharing</a>	30
29	22.05.2021	72947315221	9955	<a href="https://drive.google.com/file/d/1Q60lc_vkeXTqGYF8oH8emofz3W45XPP4/view?usp=sharing">https://drive.google.com/file/d/1Q60lc_vkeXTqGYF8oH8emofz3W45XPP4/view?usp=sharing</a>	30
30	25.05.2021	78114532452	9955	<a href="https://drive.google.com/file/d/1Dxr5CCdG_9LMFMI2yn1_m2cKKQ4dGGU/view?usp=sharing">https://drive.google.com/file/d/1Dxr5CCdG_9LMFMI2yn1_m2cKKQ4dGGU/view?usp=sharing</a>	30

  
Course Instructor

  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
HOD

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.







**K.L.E Societys**  
**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
**Certificate Course on Office Automation & e- Governance**

**RESULT SHEET**

Sl.No	Name of the Candidate	College Name	Email address	Score
1	Rani. S. Bhatakande	SSN arts and commerce college hukkeri	bhatkanderani2000@gmail.com	43 / 50
2	Deepa k bastwad	SSN Art's and commerce clg hukkeri	deepabastwad5552@gmail.com	18 / 50
3	Jyoti sudhakar vharate	KLE G I Bagewadi collage ,nipani.	vharatejyoti@gmail.com	46 / 50
4	Rutuja T. Patil	KLE'S G. I. Bagewadi College Nippani	rutujapatil890@gmail.com	40 / 50
5	Prasanna R Mahendrakar	KLE'S G H College Haveri	mahendrakarprasannaraju@gmail.com	40 / 50
6	Pooja Belambi	SSN Arts and commerce college hukkeri	poojabelambi5552@gmail.com	25 / 50
7	Rakshita M Mahendrakar	G H College . Haveri	rakshita081999@gmail.com	46 / 50
8	Soujanya patil	KLE GIB COLLEGE NIPANI	soujanya918@gmail.com	43 / 50
9	Sangeeta Gavade	KLE GIB College Nippani	sangeetagavade5@gmail.com	46 / 50
10	Rohini Karade	KLE's gib.college nippani	rohinikarade66@gmail.com	43 / 50
11	Vilas Mandekar	Govt first grade college hukkeri	vilasmandekar2001@gmail.com	23 / 50
12	Kaveri divate	kle gib.college nippani	kaveridivate32@gmail.com	43 / 50
	Gayatri Sadashiv Karade	KLE G.I.Bagewadi college Nippani	gayatrikarade03@gmail.com	43 / 50
14	Revati Rajan Tawadare	KLE GIB college Nipani	revatitawadare6363@gmail.com	45 / 50
15	Prajyoti Shankar Khot	KLE GIB College ,Nippani	khotprajyoti11@gmail.com	45 / 50
16	Shivaleela kudchi	SSN arts and commerce College hukkeri	shivaleelakudchi@gmail.com	32 / 50
17	Shruti Arun Magadam	KLE G.I Bagewadi College Nippani	magadamshruti10@gmail.com	45 / 50
18	Pooja Laxman chougule	Kle.G I Bagewadi college Nippani	pc000162@gmail.com	45 / 50
19	Komal Gadakari	KLE GI Bagewadi College Nippani	gadakarikomol08@gmail.com	43 / 50
20	Tejashwini Madagoud.	SSN art's and commerce college hukkeri.	tmadagoid@gmail.com	37 / 50
21	Asmita Anil Mengane	KLE'S G I Bagewadi college,Nipani	asmitamengane7@gmail.com	42 / 50
22	Shubham Shantinath Thane	KLE G.I.Bagewadi college, Nippani	shubhamthane98@gmail.com	43 / 50
23	Prajakta Malgave	KLE GIB College, Nipani	malgaveprajakta29@gmail.com	38 / 50
24	Rutuja Sunil Walake	KLE GIB college Nipani	rutujawalake999@gmail.com	44 / 50
25	AMRUTA PARAMANAND MI	SSMS college ATHANI	amrutamiraji@gmail.com	12 / 50
26	Rutuja Gunapal Narawade	GIB College, Nippani	rutujanarawade108@gmail.com	43 / 50
27	Yashodha Balappa Ankali	S S N Arts & Commerce College Hukkeri	Yashodhaba2001@gmail.com	38 / 50
	Ruksana makandar	S. S. N arts and Commerce college Hukkeri	ruksarmakandar234@gmail.com	49 / 50
29	Nandini patil	GIBCN	patilnandu576@gmail.com	26 / 50
30	Aishwarya k sorgarvi	Ssn arts and commerce College hukkeri	aishusorgarvi@gmail.com	24 / 50
31	Varsha Balasaheb kamble	KLE GI bagevadi college nipani	kambalv749@gmail.com	45 / 50
32	Srushti Desai	G I B college nippani	srushtidesai222@gmail.com	46 / 50
33	Sidagonda Patil	KLE's G I B College Nipani	Sidagondapatil3469@gmail.com	46 / 50
34	Swati sunil Payamalle	KLE GIB Collage Nippani	swatipayamalle1998@gmail.com	46 / 50
35	Pradnya kamble	KLE G I Bagewadi college Nippani	pdpradnya97@gmail.com	46 / 50
36	Ashwini A Magadam	SSN Art's and Commerce College Hukkeri	magadamashwini14@gmail.com	39 / 50
37	Laxmikant	Vsm	prabhusultannavar@gmail.com	44 / 50
38	Nikunj	Kle gi bagewadi college nipani	nikunj1520potadar@gmail.com	43 / 50
39	Pooja Anil Shreyakar	Kle G I Bagewadi college Nipani	Shreyakarpooja19@gmail.com	44 / 50
40	Deepa Kadappa Nidasosi	SSN arts and commerce college Hukkeri	deepanidasosi5552@gmail.com	45 / 50
41	Rutuja Patil	KLE GIB college, nipani	rutujapatil05@gmail.com	43 / 50
42	Saloni kamble	KLE GIB college	salonikamble02@gmail.com	43 / 50
43	Ashwini Halagadagi	G.I. Bagewadi College Nipani	ashwinihalagadagi1234@gmail.com	40 / 50
44	Padmaja .B. honashetti	G I Bagewadi college nipani	padmaja.honashetti@gmail.com	44 / 50
45	Vidya k kesti	KLE GIB College nippani	kestividya@gmail.com	44 / 50

46	Laxmi s patil	G I B college nippani	patilaxmi25@gmail.com	39 / 50
47	Pragati T Upadye	SSN Art's and Commerce College, Hukkeri	pragatiupadhye814@gmail.com	46 / 50
48	Kiran Bhimappa Patil	S.S.N. Arts and Commerce College Hukkeri	kiranbp896@gmail.com	38 / 50
49	Geeta kurbet	S S N arts and commerce College hukkeri	kurbetgeeta@gmail.com	38 / 50
50	Priyanka Ashok Hegganna	KLE GIB College Nippani	priyankahegganna1@gmail.com	39 / 50
51	Rohin mustakhmed khazi	S SN arts and commerce college hukkeri	rohinkhazi07@gmail.com	35 / 50
52	Netra Badakar	G I Baewadi college nipani	netrabadakar@gmail.com	39 / 50
53	Lakshmi Kamble	SSN ARTS AND COMMERCE COLLEGE H	lrkhkr@gmail.com	29 / 50
54	Balaji Vinod Dhumal	KLE GIBagewadi college nipani	bvdhumal213@gmail.com	39 / 50
55	Vinayak Ingale	KLE GIB COLLEGE NIPPANI	vinayakingale2000@gmail.com	43 / 50
56	Iranna Kurbet	S.S.N.arts and commerce college Hukkeri	irannakurbet7@gmail.com	42 / 50
57	Internet	s s n arts and commerce college hukkeri	kamateprasad@gmail.com	23 / 50
58	Mamata Shastri	SSN art's and commerce College Hukkeri	mamatashastri95@gmail.com	35 / 50
59	PREETI KADAPPA MAGADI	SSN ARTS AND COMMERCE COLLEGE H	pmagadum0022@gmail.com	23 / 50
60	Yashodha D.Gadagali	Government First Grade College Hukkeri	yashodhagadagali@gmail.com	20 / 50
61	Shekhar ghasti	SSN ARTS AND COMMERCE COLLEGE H	shekharghasti9@gmail.com	12 / 50
62	Usha vijayakumar kolkar	SSN Arts and Commerce college Hukkeri	ushakolkar032@gemial.com	36 / 50
	Poomima Chandrappa Naik	SSN ART'S AND COMMERCE COLLEGE H	poomima2001naik@gmail.co	37 / 50

  
Course Instructor

  
HOD

Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



# K.L.E's G.I Bagewadi Arts, Science & Commerce College, Nipani. Department of Commerce organised Certificate Course on "Office Automation & e - Governance"

ONLINE TEST Max. Marks : 50

\*Required

1. Email \*

\_\_\_\_\_

2. Name of the Candidate \*

\_\_\_\_\_

3. College Name \*

\_\_\_\_\_

4. Mobile Number \*

\_\_\_\_\_

ONLINE  
TEST

Max Time: 80 mins  
Max Marks: 50



5. 1. Which of the following is an input device? \*

1 point

Mark only one oval.

1. Plotter
2. Printer
3. VDU
4. Mouse

6. 2. Which type of program acts as an intermediary between a user of a computer and the computer hardware? \*

1 point

Mark only one oval.

1. Operating system
2. User thread
3. Superuser thread
4. Application program

7. 3. The linking of computers with a communication system is called \*

1 point

Mark only one oval.

1. Networking
2. Pairing
3. Interfacing
4. Assembling

8. 4. \_\_\_ are graphical objects used to represent commonly used application. \*

1 point

Mark only one oval.

1. Windows
2. Icons
3. Drivers
4. GUI

9. 5.The file that is linkked with an e-mail and sent to the receiver of the e-mail is referred to as \_\_\_\_ \* 1 point

Mark only one oval.

1. Annexure  
 2. Appendage  
 3. Attachment  
 4. Add-on

10. 6.Which one is the most suitable reason to use Macro in MS Office (Word, Excel, PPT, etc) ? \* 1 point

Mark only one oval.

1. To Record Sound  
 2. To automate repetative tasks  
 3. To Record Mouse Move  
 4. To Record Keystroke

11. 7. Which one is the the spreadsheet application that comes with MS Office software group? \* 1 point

Mark only one oval.

1. MS Word  
 2. MS Excel  
 3. MS Power Point  
 4. MS Access

12. 8. We have copied an image from one document, now which shortcut will we used to paste it in another document \* 1 point

Mark only one oval.

1. Ctrl + P  
 2. Ctrl + X  
 3. Ctrl + V  
 4. Ctrl + S

13. 9. Suppose there is a text in a document that is Bold, Red in Color with Green Background. We want to apply all of these formatting to another paragraph in one go. Which option will we use ? \* 1 point

Mark only one oval.

1. Format Button  
 2. Format Menu  
 3. Format Painter  
 4. Format Macro

14. 10. Which of the following is not valid version of MS Office? \* 1 point

Mark only one oval.

1. Office XP  
 2. Office Vista  
 3. Office 2007  
 4. Office 97-2003





15. 11. Text-styling feature of MS word is \*

1 point

Mark only one oval.

1. WordColor  
 2. WordFont  
 3. WordArt  
 4. WordFill

16. 12. In internet terminology IP means \*

1 point

Mark only one oval.

1. Internet Provider  
 2. Internet Protocol  
 3. Internet Procedure  
 4. Internet Processor

17. 13. A Web site's front page /main page is called \*

1 point

Mark only one oval.

1. Browser Page  
 2. Search Page  
 3. Home Page  
 4. Bookmark

18. 14. Which one of the following is not a search engine? \*

1 point

Mark only one oval.

1. Bing  
 2. Google  
 3. Yahoo  
 4. Windows

19. 15. Verification of a login name and password is known as: \*

1 point

Mark only one oval.

1. configuration  
 2. accessibility  
 3. authentication  
 4. logging in

20. 16. Internet explorer falls under: \*

1 point

Mark only one oval.

1. Operating System  
 2. Compiler  
 3. Browser  
 4. IP address

21. 17. A computer on internet are identified by: \*

1 point

Mark only one oval.

1. e-mail address  
 2. street address  
 3. IP address  
 4. None of the above

22. 18. Moving from one website to another is called: \*

1 point

Mark only one oval.

1. Downloading  
 2. Browsing  
 3. Uploading  
 4. Attachment



23. 19. The extension of a text file (I.e Notepad file) is : \*

1 point

Mark only one oval.

1. .text  
 2. .let  
 3. .txt  
 4. .lft

24. 20. Which effect we see as the slides of a PowerPoint changes over \*

1 point

Mark only one oval.

1. Animation  
 2. Timing  
 3. Effect  
 4. Transition

25. 21. Which one is not an Image file ? \*

1 point

Mark only one oval.

1. .bmp  
 2. .png  
 3. .wmv  
 4. .jpg

26. 22. What is the intersection of a column and a row on a worksheet called ? \*

1 point

Mark only one oval.

1. Column  
 2. Value  
 3. Address  
 4. Cell

27. 23. Which one is not a Function in MS Excel ? \*

1 point

Mark only one oval.

1. SUM  
 2. MAX  
 3. MIN  
 4. AVG

28. 24. Functions in MS Excel must begin with \_\_ \*

1 point

Mark only one oval.

1. An ( ) sign  
 2. An Equal Sign  
 3. A Plus Sign  
 4. A > Sign

29. 25. Which function in Excel checks whether a condition is true or not ? \*

1 point

Mark only one oval.

1. SUM  
 2. COUNT  
 3. IF  
 4. AVERAGE

30. 26. The Greater Than sign (>) is an example of \_\_\_\_ operator. \*

1 point

Mark only one oval.

1. Arithmetic  
 2. Logical  
 3. Conditional  
 4. Relational



31. 27. The \_\_\_\_ feature of MS Excel quickly completes a series of data \* 1 point

Mark only one oval.

1. Auto Complete  
 2. Auto Fill  
 3. Fill Handle  
 4. Sorting

32. 28. The basic unit of a worksheet into which you enter data in Excel is called a \* 1 point

Mark only one oval.

1. cell  
 2. table  
 3. box  
 4. column

33. 29. In Excel, which one denoted a range from B1 through E5 \* 1 point

Mark only one oval.

1. B1 - E5  
 2. B1:E5  
 3. B1 to E5  
 4. B1\$E5

34. 30. An Excel file is generally called a / an : \* 1 point

Mark only one oval.

1. E-Spreadsheet  
 2. Worksheet  
 3. Workbook  
 4. Sheet

35. 31. Arrange in ascending order the units of memory TB, KB, GB, MB \* 1 point

Mark only one oval.

1. TB>MB>GB>KB  
 2. MB>GB>TB>KB  
 3. TB>GB>MB>KB  
 4. GB>MB>KB>TB

36. 32. Eight Bits make up a \* 1 point

Mark only one oval.

1. byte  
 2. megabyte  
 3. kilobyte  
 4. None

37. 33. A new presentation can be created from \* 1 point

Mark only one oval.

1. Blank Presentation  
 2. From Existing Presentation  
 3. From Design Template  
 4. All of above

38. 34. What lets you to create new presentation by selecting ready-made font color and graphics effects? \* 1 point

Mark only one oval.

1. Presentation Template  
 2. Master Slide  
 3. Design Template  
 4. Animation Scheme



39. 35. What is the backbone of office automation systems? \* 1 point

Mark only one oval.

1. WAN
2. MAN
3. LAN
4. All of these

40. 36. The term 'office automation' refers to a combination of computer \_\_\_\_ 1 point

Mark only one oval.

1. Hardware
2. Software
3. Network connectivity
4. All of these

41. 37. Large business organizations can \_\_\_\_ various projects and activities within the office through an electronic management system. \* 1 point

Mark only one oval.

1. Monitor and control
2. Process
3. Implement
4. None of the mentioned above

42. 38. Which enables us to send the same letter to different persons? 1 point

Mark only one oval.

1. macros
2. template
3. mail merge
4. None of these

43. 39. Screen that comes on when you turn on your computer that shows all the icons. 1 point

Mark only one oval.

1. desktop
2. face to face
3. viewer
4. view space

44. 40. Which of the following formulas is not entered correctly? 1 point

Mark only one oval.

1. =10+50
2. =B7\*B1
3. =B7+14
4. 10+50





45. 41. Which of the following is called as protocol in the URL ?

<http://www.xyz.com>

1 point

Mark only one oval.

1. .com  
 2. www  
 3. xyz  
 4. http

46. 42. URL stands for:

1 point

Mark only one oval.

1. Uniform Resource Library  
 2. Uniform Resource Locator  
 3. United Resource Locators  
 4. None of above

47. 43. An educational institution would generally have the following in its domain name \*

1 point

Mark only one oval.

- a) .org  
 b) .edu  
 c) .inst  
 d) .com



48. 44. A word in a web page that, when clicked, opens another document \*

1 point

Mark only one oval.

1. anchor  
 2. URL  
 3. hyperlink  
 4. reference

49. 45. In Microsoft PowerPoint auto clip art is a feature that? \*

1 point

Mark only one oval.

1. Scans your presentation for incorrect spelling of words on each slide  
 2. Automatically places clip art in your presentation  
 3. Scans your presentation for incorrect spelling in word art objects  
 4. All of the above

50. 46. In Microsoft PowerPoint special effects used to introduce slides in a presentation are called

1 point

Mark only one oval.

1. Transitions  
 2. Effects  
 3. Animations  
 4. Custom Animations

51. 47. C to G is a type of E-government, what does it mean ?

1 point

Mark only one oval.

1. Communications to citizens  
 2. Communication to Government  
 3. Citizen to Government Interaction  
 4. None of the above

52. 48. Which Technological Input is used in e - Governance \*

1 point

Mark only one oval.

1. ICT
2. SMS
3. E-MAIL
4. EDI

53. 49. Benefits of E- Governance to the nation includes

1 point

Mark only one oval.

1. High Transparency
2. Growth in GDP
3. Reduced corruption
4. All of the above

54. 50. PFMS stands for \_\_\_\_\_ \*

1 point

Mark only one oval.

1. Provident Fund Management System
2. Public Financial Management System
3. Private Financial Management System
4. Personal Fund Management System

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**K.L.E's Societys**  
**G.I. Bagewadi Arts, Science & Commerce College, Nipani**  
**Certificate Course on Office Automation & e- Governance**  
**FEEDBACK FORM**



Sl.No.	Full Name	Office / College Name	1. How useful did you think this certificate course was for you?	2. Whether content designed for the certificate course met your expectations?	3. Instructor knowledge regarding Topic?	4. Whether the course had good balance between theory and practical?	5. Please give overall rating of the course
1	Prajyoti Shankar Khot	KLEGIB College, Nippni	Very Useful	Yes	Excellent	Very Good	80% to 100%
2	Gayatri Sadashiv Karade	G I bagewadi college Nippani	Very Useful	Yes	Very Good	Excellent	80% to 100%
3	Prajakta Preetam Malgave	KLE GIB College, Nipani	Very Useful	Yes	Excellent	Excellent	80% to 100%
4	Shubham Shantinath Thane	KLE G. I. Bagewadi college Nippani	Useful	Yes	Very Good	Very Good	80% to 100%
5	Kiran Bhimappa Patil	S.S.N. Arts and Commerce College Hukkeri	Very Useful	Yes	Excellent	Very Good	80% to 100%
6	Shivaleela Sunil kudchi	Shri SSN arts and commerce College hukkeri	Useful	Yes	Very Good	Very Good	60% to 80%
7	Deepa kadappa Nidasosi	SSN arts and commerce college Hukkeri	Very Useful	Yes	Very Good	Good	80% to 100%
8	Pragati T Upadye	S S N Art's and Commerce College, Hukkeri.	Very Useful	Yes	Very Good	Excellent	80% to 100%
9	Tejashwini Madagoud.	SSN art's and commerce college hukkeri.	Very Useful	Yes	Excellent	Excellent	80% to 100%
10	Pragati T Upadye	S S N Art's and Commerce College, Hukkeri.	Very Useful	Yes	Very Good	Excellent	80% to 100%
11	Tejashwini Madagoud.	SSN arts and commerce college hukkeri.	Very Useful	Yes	Excellent	Excellent	80% to 100%
12	Ruksana Hasan Sab makandar	S. S. N. Arts and Commerce college Hukkeri.	Very Useful	Yes	Excellent	Very Good	80% to 100%
13	ASHWINI MAGADUM	SSN Arts and Commerce College Hukkeri	Useful	Yes	Excellent	Very Good	80% to 100%
14	Komal M Gadakari	KLE GI BAGEWADI COLLEGE NIPPANI	Useful	Yes	Excellent	Very Good	80% to 100%
15	Kaveri R Divate	KLE Gi Bagewadi college Nippani	Very Useful	Yes	Excellent	Excellent	80% to 100%
16	Mamata . Purushottam . Shastri	SSN-art's and commerce College Hukkeri	Very Useful	Yes	Very Good	Very Good	80% to 100%
17	Lakshmi Ravindra kamble	SSN ARTS AND COMMERCE COLLEGE HUKKERI	Very Useful	Yes	Excellent	Excellent	80% to 100%
18	Rani S. Bhatakande	SSN arts and commerce college hukkeri	Very Useful	Yes	Very Good	Very Good	80% to 100%
19	PREETI KADAPPA MAGADUM	S S N ARTS AND COMMERCE COLLEGE HUKKERI	Very Useful	Yes	Excellent	Excellent	80% to 100%
20	Pooja Anil Shreyakar	Kle G I Bagewadi college Nipani	Very Useful	Yes	Excellent	Excellent	80% to 100%
21	Shruti Arun Magadam	KLE G.I.Bagewadi college nippani	Very Useful	Yes	Excellent	Excellent	80% to 100%
22	Netra Badakar	College : G.I.bagewadi college nipani	Very Useful	Yes	Very Good	Good	60% to 80%
23	Iranna Mahaling Kurbet	S.S.N. Arts and Commerce College Hukkeri	Very Useful	Yes	Excellent	Excellent	80% to 100%

24	Geeta Mahaling Kurbet	S.S.N. Arts and Commerce College Hukkeri	Very Useful	Yes	Excellent	Excellent	Below 40%
25	Prasanna R Mahendrakar	KLE'S G H College Haveri	Useful	Yes	Very Good	Very Good	80% to 100%
26	Poornima Chandrappa Naik	SSN ART'S AND COMMERCE COLLEGE, HUKKERI	Very Useful	Yes	Very Good	Very Good	60% to 80%
27	Poornima Chandrappa Naik	SSN ART'S AND COMMERCE COLLEGE, HUKKERI	Very Useful	Yes	Very Good	Excellent	60% to 80%
28	Rutuja Patil	KLE GIB college nipani.	Very Useful	Yes	Excellent	Excellent	80% to 100%
29	Rohin .Mustakahmed . Khazi	S S N arts and commerce college hukkeri	Very Useful	Yes	Excellent	Excellent	80% to 100%
30	Rohini Karade	KLE'S.GIB.colige nippani	Very Useful	Yes	Very Good	Satisfactory	60% to 80%
31	Rutuja S Walake	KLE GIB college Nipani	Very Useful	Yes	Excellent	Very Good	80% to 100%
32	sadika inamdar	SSN Arts and commerce College Hukkeri	Useful	Yes	Very Good	Very Good	60% to 80%
33	Priyanka Ashok Hegganna	KLE GIB College Nippani	Very Useful	Yes	Excellent	Very Good	80% to 100%
34	Leela potadar	Ssn arts and commerce college hukkeri	Useful	Yes	Very Good	Excellent	80% to 100%
35	Pooja Anil Shreyakar	Kle G I Bagewadi college, Nipani	Very Useful	Yes	Excellent	Excellent	80% to 100%
36	SUSHMITA KHOT	SSMS COLLEGE, ATHANI	Very Useful	Yes	Excellent	Very Good	80% to 100%
37	Saloni kamble	KLE GIB College	Very Useful	Yes	Very Good	Very Good	80% to 100%
38	Shruti Arun Magadum	KLE G.I Bagewadi College Nippani	Very Useful	Yes	Excellent	Excellent	80% to 100%
39	Arpita Mahesh Shintre	KLE GIB college, nipani	Very Useful	Yes	Very Good	Excellent	80% to 100%
40	Sidagonda Patil	KLE*s G I B College Nipani	Very Useful	Yes	Very Good	Very Good	80% to 100%
41	Poornima Chandrappa Naik	SSN ART'S AND COMMERCE COLLEGE HUKKERI	Very Useful	Yes	Excellent	Excellent	60% to 80%
42	rakshita081999@gmail.com	KLE's G H College Haveri	Very Useful	Yes	Very Good	Excellent	80% to 100%
43	Ashwini Halagadagi	G.I.Bagewadi College Nipani	Very Useful	Yes	Very Good	Very Good	80% to 100%
44	YASHODHA BALAPPA ANKALI	S S N Arts and Commerce College Hukkeri	Very Useful	Yes	Very Good	Very Good	60% to 80%
45	YASHODHA BALAPPA ANKALI	S S N Arts & Commerce College Hukkeri	Very Useful	Yes	Very Good	Very Good	60% to 80%
46	Pooja Laxman chougule	Kle G I Bagewadi college Nippani	Useful	Yes	Excellent	Excellent	60% to 80%
47	Sujata parasharam kamble	KLE college Nipani	Very Useful	Yes	Excellent	Very Good	80% to 100%
48	Akshay Ravasaheb Patil	GI Bagewadi college Nippani	Useful	Yes	Very Good	Good	60% to 80%
49	Swati sunil Payamalle	KLE GIB Collage Nippani	Very Useful	Yes	Excellent	Excellent	80% to 100%
50	Rohin mustakahmed khazi	SSN arts and commerce college hukkeri	Very Useful	Yes	Excellent	Excellent	80% to 100%



Course Instructor



  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani

  
PRINCIPAL  
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HOD  
Head

Department of Commerce  
KLE'S G. I. B. College, Nipani.





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**NIPANI-591287 KARNATAKA INDIA**  
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**CERTIFICATE COURSE ON**  
**OFFICE AUTOMATION & e-GOVERNANCE**  
**CERTIFICATE**

This is to certify that Mr./Miss./Mrs/Shri. Soujanya patil of KLE GIB COLLEGE NIPANI has participated and successfully completed Certificate course on "Office Automation & e-Governance" during COVID- 19 Outbreaks from 10.4.2021 to 31.5.2021 Organized by Department of Commerce.

**Prof. ABHIJEET TAVAKARI**  
COURSE INSTRUCTOR

**Shri.B.G.KANKANWADI**  
HOD

**DR. B. S. KAMBLE**  
IQAC COORDINATOR

**DR. M. M. HURALI**  
PRINCIPAL





**K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

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**REPORT ON: Online Certificate Course on Office Automation & e-Governance**

Name of the Department	Commerce					
Name of the Event Organized	Online Certificate Course					
Title of the Event	Office Automation & e-Governance					
Date of the Event Organized	10 April 2021					
Name of the Convener	Prof. Abhijeet A. Tavakari					
Participants	63					
No. of Participants	Total	63	Teachers	00	Students	63
Name of the Expert with Designation	Prof. Abhijeet A. Tavakari					
Contact Number & Address of the Expert	+919663718444 Hudco Colony, Nipani					
Objectives of the Event	1. To provide in-depth training in use of Office Automation packages 2. To get acquainted with IT , Cyber laws, Financial rules to be followed in public and private offices.					
Outcome of the Event	63 students from various colleges developed skills in use of Office Automation packages					
Photo Gallery						

IQAC Coordinator

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Department of Commerce  
K.L.E.'s G. I. B. College, Nipani

Principal  
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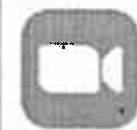
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Commerce College, Nipani

DEPARTMENT OF COMMERCE

Organising Online  
Certificate Course  
On

# RESEARCH METHODOLOGY

ONLINE PLATFORM



zoom

Course Instructor

Mrs. Sangeeta P. Sansuddi  
Lecturer, Department of Commerce  
KLE's G.I. Bagewadi Arts, Science  
and Commerce College, Nipani

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## Department of Commerce

Online Certificate Course


On

### "Research Methodology for Beginners"

#### Document Index

Sl.No.	Documents
1.	Notice
2.	Syllabus
3.	Registration details
4.	Report
5.	Test Question Paper
6.	Result Sheet
7.	Feedback Details
8.	Certificates

  
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DEPARTMENT OF COMMERCE

*Online Certificate Course Class Taken Report*

Name of the Faculty: Mrs. S.P.Sansuddi

Class: B.Com and M.com

Title: Research Methodology for Beginners



Sl. No	Date	Zoom Id	Password	Google Drive link	No. Of Students Attended
1.	4.6.2021	78009076835	9955	<a href="https://drive.google.com/file/d/11xJdf32fGOScU31q3mmVeZdguT-hvKhl/view?usp=sharing">https://drive.google.com/file/d/11xJdf32fGOScU31q3mmVeZdguT-hvKhl/view?usp=sharing</a>	58
2.	5.6.2021	71341265554	9955	<a href="https://drive.google.com/file/d/11xJdf32fGOScU31q3mmVeZdguT-hvKhl/view?usp=sharing">https://drive.google.com/file/d/11xJdf32fGOScU31q3mmVeZdguT-hvKhl/view?usp=sharing</a>	40
3	6.6.2021	71341265554	9955	-----	42
4	7.6.2021	72677654494	9955	<a href="https://drive.google.com/file/d/1w_F40c61YasjxH0cqPW15g6k3L4Oxjb1/view?usp=sharing">https://drive.google.com/file/d/1w_F40c61YasjxH0cqPW15g6k3L4Oxjb1/view?usp=sharing</a>	35
5	8.6.2021			-----	30
6	9.6.2021	75986257531	9955	<a href="https://drive.google.com/file/d/1EITDw23Zc0Gr1LCDttp90sP9eI7O6Uv1/view?usp=sharing">https://drive.google.com/file/d/1EITDw23Zc0Gr1LCDttp90sP9eI7O6Uv1/view?usp=sharing</a>	32

7	10.6.2021	79282192458	9955	<a href="https://drive.google.com/file/d/1IxnERov2le215aI_DkTaoUAq28Ub0els/view?usp=sharing">https://drive.google.com/file/d/1IxnERov2le215aI_DkTaoUAq28Ub0els/view?usp=sharing</a>	30
8	11.6.2021	79282192458	9955	<a href="https://drive.google.com/file/d/1IxnERov2le215aLHDkTaoUAq28Ub0els/view?usp=sharing">https://drive.google.com/file/d/1IxnERov2le215aLHDkTaoUAq28Ub0els/view?usp=sharing</a>	25
9	12.6.2021	73165175300	9955	<a href="https://drive.google.com/file/d/1JzpJElwILKbY8eV3XsaeWfzFFCab_8Zj/view?usp=sharing">https://drive.google.com/file/d/1JzpJElwILKbY8eV3XsaeWfzFFCab_8Zj/view?usp=sharing</a>	50
10	13.6.2021	79282402437	9955	<a href="https://drive.google.com/file/d/1IxnERov2le215aLHDkTaoUAq28Ub0els/view?usp=sharing">https://drive.google.com/file/d/1IxnERov2le215aLHDkTaoUAq28Ub0els/view?usp=sharing</a>	45
11	14.6.2021	79282402437	9955	<a href="https://drive.google.com/file/d/1pvGHgjVHMWqi6gEKHW4Y9DiXFvuYlyFF/view?usp=sharing">https://drive.google.com/file/d/1pvGHgjVHMWqi6gEKHW4Y9DiXFvuYlyFF/view?usp=sharing</a>	30
12	15.6.2021	72251260609	9955	-----	43
13	16.6.2021	77208520859	9955	<a href="https://drive.google.com/file/d/1ym9soy8lDDw3wfvYGk92CZH_Hu9fsAlK/view?usp=sharing">https://drive.google.com/file/d/1ym9soy8lDDw3wfvYGk92CZH_Hu9fsAlK/view?usp=sharing</a>	37
14	17.6.2021	77027249022	9955	<a href="https://drive.google.com/file/d/1FMOpjEbD2q0H2D9EJmpcoJp4T03HrXtN/view?usp=sharing">https://drive.google.com/file/d/1FMOpjEbD2q0H2D9EJmpcoJp4T03HrXtN/view?usp=sharing</a>	28
15	18.6.2021	72376810604	9955	<a href="https://drive.google.com/file/d/1jwqpMTtj3wVCBgVshTD154VoYanuaL3o/view?usp=sharing">https://drive.google.com/file/d/1jwqpMTtj3wVCBgVshTD154VoYanuaL3o/view?usp=sharing</a>	36



16	19.6.2021	78499521419	9955	<a href="http://drive.google.com/file/d/1oeXFmQB-MXII2b6tZjq7ezUUxmOHALtU/view?usp=sharing">http://drive.google.com/file/d/1oeXFmQB-MXII2b6tZjq7ezUUxmOHALtU/view?usp=sharing</a>	42
17	21.6.2021	79893000558	9955	<a href="https://drive.google.com/file/d/1oeXFmQB-MXII2b6tZjq7ezUUxmOHALtU/view?usp=sharing">https://drive.google.com/file/d/1oeXFmQB-MXII2b6tZjq7ezUUxmOHALtU/view?usp=sharing</a>	30
18	22.6.2021	79893000558	9955	Preparation of Articles and research paper	30
19.	23.6.2021	79893000558	9955	Preparation of Articles and research paper	25
20.	24.6.2021	79893000558	9955	Preparation of Articles and research paper	48
21.	25.6.2021	79893000558	9955	Preparation of Articles and research paper	30
22	26.6.2021	79893000558	9955	Preparation of Articles and research paper	27
23	27.6.2021	79893000558	9955	Preparation of Articles and research paper	25
24.	28.6.2021	79893000558	9955	Preparation of Articles and research paper	30
25	29.6.2021	79893000558	9955	Preparation of Articles and research paper	21
26	30.6.2021	79893000558	9955	Preparation of Articles and research paper	20



*Dr. S. S. S.*

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G.I.Bagewadi Arts, Science and Commerce College, Nipani

Department of Commerce

Online Certificate Course On Research Methodology for Beginners



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10	afreenaikwadi55@gmail.com	Afreen R Naikwadi	Bcom 6th sem	S. S. S. N Arts and Commerce Collage Hukkeri	7411444646
11	rshmhiremath@gmail.com	Rashmi S Hiremath	Bcom VI sem	JSS Arts, Science & Commerce College Gokak	8431771145
12	irannakurbet7@gmail.com	Iranna m Kurbet	Yes	SSN Arts and commerce college Hukkeri	9353387064
13	rohinkhazi07@gmail.com	Rohin .mustakahmed, khazi	B.com. 6sem	S S N arts and commerce college hukkeri	9108867629
14	shubhamthane98@gmail.com	Shubham Shantinath Thane	B.com VI semes	KLE G.I.Bagewadi college, Nippani	9035992416
15	sagarjanamatti639@gmail.com	Sagar s janamatti	Bcom 2 nd year	Ssn Arts and commerce college hukkeri	9353375136
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DEPARTMENT OF COMMERCE

Certificate Course on Research Methodology for Beginners


Syllabus

Sl.No.	Topics	Duration
01	<b>Introduction</b> Meaning, objectives and Limitations, types of research, identification and statement of the research problem, review of literature meaning, need and sources.	08 hrs
02	<b>Data Collection</b> Primary and Secondary Sources, Sampling Methods, Types of Sampling, Problems of Sampling, Tools of Data Collection, Hypothesis testing.	08 hrs
03	<b>Report Writing</b> Steps in Report Writing, Format of Research Report, Requirement of Good Report, Appendices and Bibliography.	07 hrs
04	<b>Practical Approach</b> towards Preparation of Research Papers, Articles and projects.	07 hrs

  
Course Instructor  
(Sangeeta P. Sansuddi)

  
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48	Tejaswinirogi98@gmail.com	Rani channama university belgum	tejaswinirogi98@gmail.com	8 / 50
49	Aishwarya Patil	Aishwarya Patil	aishwaryapatil0569@gmail.com	34 / 50
50	Pragati Upadhye	SSN Art's and Commerce College Hukkeri.	pragatiupadhye814@gmail.com	42 / 50
51	Ashwini Magadum	SSN Arts and Commerce College Hukkeri	magadumashwini14@gmail.com	30 / 50




52	Shruti Magadum	KLE GIB college Nippani	magadumshruti10@gmail.com	36 / 50
53	Sudha Hipparagi	KLE's GIB College Nippani	sudhahipparagi1999@gmail.com	40 / 50
54	Swati Suresh Hokale	K l.e's G.I.Bagewadi college Nipani.	swatihokale1377@gmail.com	40 / 50
55	Mayuri madhukar sutar	KLE GI Bhagewadi college nipani	mayurisutar500@gmail.com	36 / 50
56	Vishwanath halijol	Government first grade college chikkodi	vishwanathhalijol@gmail.com	40 / 50
57	Geeta kurbet	S S N arts and commerce College hukkeri	kurbetgeeta@gmail.com	24 / 50
58	Ashwini A Magadum	SSN Art's and Commerce College Hukkeri	magadumashwini14@gmail.com	48 / 50
59	Ankita Magadum	SSN arts and commerce college Hukkeri	ankitamagadum@gmail.com	16 / 50

  
Course Instructor

  
HOD

  
IQAC Coordinator  
Co-ordinator IQAC  
K. L. E. Society's  
G. J. Bagewadi College, Nipani.

  
Principal  
PRINCIPAL  
K. L. E. Society's  
G. L. Bagewadi College, Nipani.

# KLE's G.I.Bagewadi Arts, Science & Commerce College, Nipani

Certificate Course on "Research Methodology for Beginners"

\* Required

1. Email \*

\_\_\_\_\_

2. Name of the Student \*

\_\_\_\_\_

3. Name of the Institution \*

\_\_\_\_\_

4. Class \*

\_\_\_\_\_

Online Test

Each question carry 2 marks  
Number of questions 25

5. 1.Hypothesis is..... \*

2 points

Mark only one oval.

- (A) Conclusion drawn from existing literature
- (B) Interpretation of data
- (C) Relation between variables
- (D) Comparison of assumptions

6. 2. ----- is non-probability method of sampling \*

2 points

Mark only one oval.

- (A) Cluster
- (B) Stratified
- (C) Simple Random
- (D) Purposive

7. 3. 'Data 'means..... \*

2 points

Mark only one oval.

- (A) output of computers
- (B) Input of computer
- (C) Unprocessed facts and figures
- (D) All above

8. 4. Significance of hypothesis is tested on ..... level in Social Sciences. \*

2 points

Mark only one oval.

- (A) 0.01
- (B) 0.05
- (C) 0.50
- (D) 0.10

9. 5. Hypothesis should be \*

2 points

Mark only one oval.

- (A) subjective
- (B) Objective
- (C) Testable
- (D) All above





10. 6. How is random sampling helpful? \*

2 points

Mark only one oval.

- a. Reasonably accurate
- b. An economical method of data collection
- c. Free from personal biases
- d. All of the above

11. 7. Which of the following does not correspond to characteristics of research? \*

2 points

Mark only one oval.

- a. Research is not passive
- b. Research is systematic
- c. Research is not a problem-oriented
- d. Research is not a process

12. 8. Which of the following options are the main tasks of research in modern society? \*

2 points

Mark only one oval.

- a. To learn new things
- b. To keep pace with the advancement in knowledge
- c. To systematically examine and critically analyze the investigations/sources with the objective
- d. All of the above

13. 9. How to judge the depth of any research? \*

2 points

Mark only one oval.

- a. By research title
- b. By research duration
- c. By research objectives
- d. By total expenditure on research .

14. 10. Who can successfully conduct Research? \*

2 points

Mark only one oval.

- a. Someone who is a hard worker
- b. Possesses post-graduation degree
- c. Has studied research methodology
- d. Possesses thinking and reasoning ability

15. 11. Which of the following is not the method of Research? \*

2 points

Mark only one oval.

- a. Survey
- b. Historical
- c. Observation
- d. Philosophical

16. 12. Which technique is generally followed when the population is finite? \*

2 points

Mark only one oval.

- a. Systematic Sampling Technique
- b. Purposive Sampling Technique
- c. Area Sampling Technique
- d. None of the above



17. 13. "Sampling Cases" can be defined as \*

2 points

Mark only one oval.

- a. Sampling using a sampling frame
- b. Identifying people who are suitable for research
- c. Literally the researcher's brief case
- d. A sampling of people, newspapers, television programs etc.

18. 14. Research problem is selected from the standpoint of \*

2 points

Mark only one oval.

- a. Social relevance
- b. Financial support
- c. Researcher's interest
- d. Availability of relevant literature

19. 15. How can we enhance the research objective? \*

2 points

Mark only one oval.

- a. By making it more valid
- b. By making it more reliable
- c. By making it more impartial
- d. All of the above

20. 16. Research is done for \_\_\_ existing theories or arriving at new \_\_\_ \*

2 points

Mark only one oval.

- a. Proving, models
- b. models, samples
- c. Research, theory
- d. Conceptual, thesis

21. 17. The data collection methods may be classified into \_\_\_ and \_\_\_ data methods. \*

2 points

Mark only one oval.

- a. Primary
- b. Secondary
- c. Both A & B
- d. None of the above

22. 18. The group of individuals from whom one needs to collect data for the study is called the sample. \*

2 points

Mark only one oval.

- a. True
- b. False
- c. Neither A & B
- d. None of the above.

23. 19. Marketing department of a business organization carries out researches related to: \*

2 points

Mark only one oval.

- (a) Product
- (b) Pricing
- (c) Promotion
- (d) All the above



24. 20. In order to pursue the research, which of the following is priority required? \* 2 points

Mark only one oval.

- a. Developing a research design
- b. Formulating a research question
- c. Deciding about the data analysis procedure
- d. Formulating a research hypothesis

25. 21. Which of the following options are the main tasks of research in modern society? \* 2 points

Mark only one oval.

- a. To learn new things
- b. To keep pace with the advancement in knowledge
- c. To systematically examine and critically analyze the investigations/sources with the objective
- d. All of the above

26. 22. What are the qualities of Good Report? \* 2 points

Mark only one oval.

- a. Precision
- b. Accuracy of facts
- c. Relevancy
- d. All of the above

27. 23. What are the types of Report? \* 2 points

Mark only one oval.

- a. Technical Report
- b. Popular Report
- c. A and B
- d. None of the above

28. 24. Types of Research \* 2 points

Mark only one oval.

- a. Applied research
- b. diagnostic research
- c. Quantitative Research
- d. All of the above

29. 25. Why do you need to review the existing literature? \* 2 points

Mark only one oval.

- a. To make sure you have a long list of references
- b. Because without it, you could never reach the required word-count
- c. To find out what is already known about your area of interest
- d. To help in your general studying



K.L.E's

G. I. Bagewadi Arts, Science and Commerce College, Nipani- 591237

Department of Commerce

Online Certificate Course on " Research Methodology for Beginners"

Feedback Form Details




Sl. No.	Full Name	1. How useful did you think this certificate course was for you?	2. Whether content designed for the certificate course met your expectations?	3. Instructor knowledge regarding Topic?	4. Whether the course had good balance between theory and practical?	5. Please give overall rating of the course	Any Suggestions
1	Swati sunil Payamalle	Very Useful	Yes	Excellent	Excellent	80% to 100%	No suggestions
2	Rutuja Gunapal Narawa	Very Useful	Yes	Very Good	Excellent	80% to 100%	No
3	Arpita Sollapure	Very Useful	Yes	Very Good	Excellent	80% to 100%	No
4	Kiran Patil	Very Useful	Yes	Excellent	Very Good	80% to 100%	Good taching for online course
5	Poornima C Naik	Useful	Yes	Excellent	Excellent	80% to 100%	No
6	Pooja Anil Shreyakar	Very Useful	Yes	Excellent	Excellent	80% to 100%	No
7	Asmita A Mengane	Useful	Yes	Very Good	Very Good	60% to 80%	No
8	Rutuja T. Patil	Very Useful	Yes	Excellent	Very Good	80% to 100%	no
9	Ankita Magadam	Very Useful	May be	Good	Very Good	80% to 100%	All most all classes good
10	Danamma Shedabale	Very Useful	Yes	Excellent	Very Good	80% to 100%	Overall it's good
11	Gouravva ingali	Useful	No	Very Good	Very Good	40% to 60%	Super
12	Sudha Hipparagi	Very Useful	Yes	Excellent	Excellent	80% to 100%	Thank you mam For wonderful course
13	Archana Ashok Ghasti	Very Useful	Yes	Excellent	Good	60% to 80%	No
14	Shivaleela Sunil kudchi	Very Useful	Yes	Very Good	Good	60% to 80%	All good
15	Shruti nilajagi	Useful	May be	Good	Good	60% to 80%	No
16	Afreen R Naikwadi	Very Useful	Yes	Very Good	Excellent	80% to 100%	All good
17	Rani S Bhatakanide	Very Useful	Yes	Excellent	Very Good	80% to 100%	All good
18	Lakshmi kamble	Very Useful	Yes	Excellent	Excellent	80% to 100%	Keep it up & tq so much for this opportunity
19	Vilas bhimappa Mandek	Very Useful	Yes	Excellent	Very Good	80% to 100%	No
20	Pragati T Upadye	Very Useful	Yes	Very Good	Very Good	60% to 80%	Give us, more and more knowledge regarding this subject please.
21	SHIVAKUMAR RAJU	Very Useful	Yes	Excellent	Excellent	80% to 100%	Stability
22	Tabassum Dastageer Tal	Very Useful	May be	Excellent	Excellent	60% to 80%	No
23	Preeti Upadhye	Very Useful	Yes	Very Good	Excellent	60% to 80%	Very useful
24	Jyoti sudhakar vharate	Useful	Yes	Good	Good	40% to 60%	




25	Prathamesh nerli	Very Useful	Yes	Very Good	Very Good	60% to 80%	No
26	Sadiqabi Inamdar	Very Useful	Yes	Excellent	Very Good	80% to 100%	No
27	Mayuri madhukar sutar	Very Useful	Yes	Excellent	Excellent	80% to 100%	No any suggestion
28	Sushma Nandagaon	Very Useful	Yes	Excellent	Excellent	80% to 100%	No
29	Roopali Laxman Chopad	Very Useful	No	Very Good	Very Good	80% to 100%	No
30	Mamata P. Shastri	Very Useful	Yes	Excellent	Very Good	60% to 80%	No
31	Rajashri N Talawar	Very Useful	Yes	Excellent	Very Good	60% to 80%	No
32	Deepa K Nidasosi	Very Useful	May be	Very Good	Satisfactory	80% to 100%	Nothing
33	Komal Gadakari	Useful	Yes	Very Good	Very Good	60% to 80%	No
34	PREETI K MAGADUM	Very Useful	No	Excellent	Excellent	80% to 100%	No
35	Sateeshshiraganvi	Very Useful	Yes	Excellent	Very Good	80% to 100%	Yes
36	Ashwini A Magadum	Useful	Yes	Excellent	Very Good	60% to 80%	No
37	POOJA K BELAMBI	Very Useful	May be	Good	Good	40% to 60%	Nothing
38	Pragati T Upadye	Useful	Yes	Very Good	Very Good	60% to 80%	It is useful to improve our knowledge
39	Priyanka Ashok Heggan	Useful	Yes	Excellent	Very Good	80% to 100%	No



  
Course Instructor

  
HOD  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
IQAC Coordinator  
IQAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.



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**Nipani-591237 Karnataka INDIA**  
**Accredited at 'A' level by NAAC with CGPA 3.35**



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E-mail: [klegibnpn@gmail.com](mailto:klegibnpn@gmail.com)



Certificate course on  
**Research Methodology for Beginners**

**CERTIFICATE**

This is to certify that Mr./Miss./Mrs/Shri . Rani. S. Bhatakande of SSN arts and commerce college hukkeri has participated and successfully completed Certificate course on “ Research Methodology for Beginners” during COVID- 19 Outbreaks from 1.06.2021 to 2.7.2021 Organized by Department of Commerce.

Prof. SANGEETA P. SANSUDDI  
COURSE INSTRUCTOR

Shri. B.G. KANKANWADI  
HOD

DR. B. S. KAMBLE  
IQAC COORDINATOR

DR. M. M. HURALI  
PRINCIPAL



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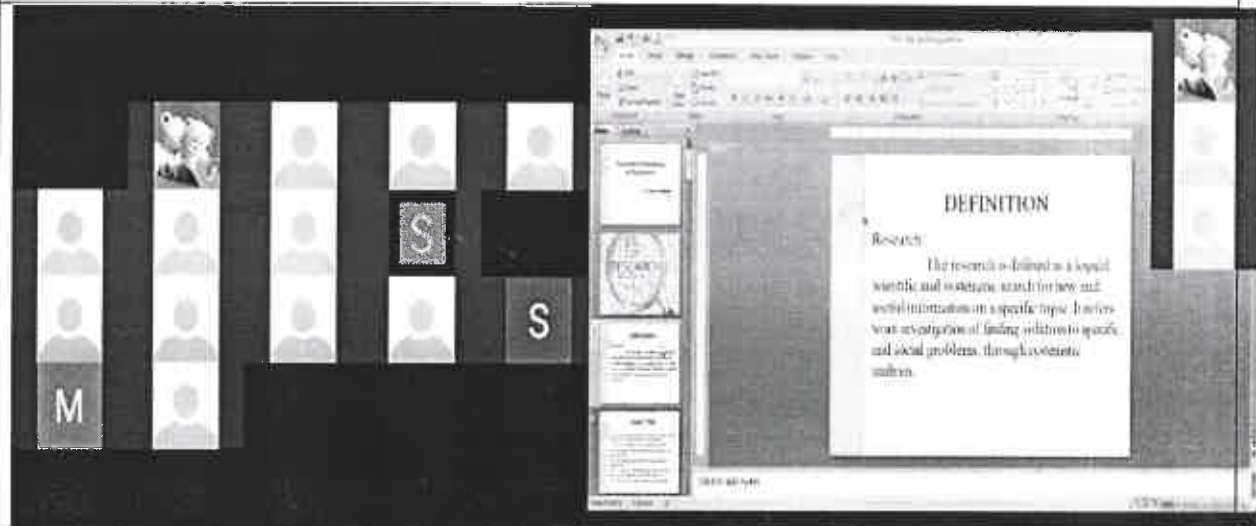
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**REPORT ON: Online Certificate Course on Research Methodology for Beginners**

Name of the Department	Commerce					
Name of the Event Organized	Online Certificate Course					
Title of the Event	Research Methodology for Beginners					
Date of the Event Organized	01 June 2021					
Name of the Convener	Prof. Sangeeta P. Sansuddi					
Participants	59					
No. of Participants	Total	59	Teachers	00	Students	59
Name of the Expert with Designation	Prof. Sangeeta P. Sansuddi					
Contact Number & Address of the Expert	+919663718444 Hudco Colony, Nipani					
Objectives of the Event	1. To pay attention to the most important dimension of Research i.e. Research Methodology. 2. To impart research skills to the beginners.					
Outcome of the Event	59 students from various colleges developed skills in preparation of research papers and articles.					

**Photo Gallery**



*(Signature)*  
**IQAC Coordinator**  
**IQAC Co-ordinator**  
**K.L.E.'s G. I. B. College, Nipani.**

*(Signature)*  
**HOD**  
**Head**  
**Department of Commerce**  
**K.L.E.'s G. I. B. College, Nipani.**

*(Signature)*  
**Principal**  
**PRINCIPAL**  
**K.L.E. Society's**  
**G. I. Bagewadi College, Nipani.**



**K.L.E. Society's**

**G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI**

**DEPARTMENT OF COMMERCE**

**CERTIFICATE COURSE  
IN  
BUSINESS CORRESPONDENCE**

**COURSE CODE: B.COM3C-2021**



**2020 - 21**





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Date: 23.04.2021

## Department of Commerce

### NOTICE

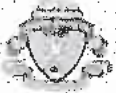
The Department is going to commence certificate course in Business Correspondence (Course Code: B Com3C-2021) for the academic year 2020-21. Interested students of B.Com IV Semester are hereby informed to enroll their names in the department on or before 26<sup>th</sup> April, 2021.

  
Convener

  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





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### Department of Commerce

### Enrollment form for the year 2020-21

To,

Head of the Department Commerce,

KLE's G.I. Bagewadi College, Nipani.



Application for the certificate course in Business correspondence

### PARTICULARS OF APPLICANT

1. Name : BHAGYASHRI V. KHOT
2. Class : B COM IV<sup>th</sup> sem
3. Address for Correspondence : Alp Kognali
4. Contact No. : 9482069383
5. E-Mail : Bhagyashrikhot27@gmail.com

Date:



Bhagyashri  
Signature of the Applicant



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### Department of Commerce

### Enrollment form for the year 2020-21



To,

Head of the Department Commerce,

KLE's G.I. Bagewadi College, Nipani.

Application for the certificate course in Business Correspondence

#### PARTICULARS OF APPLICANT

1. Name : ANAGHA P. MOHITE
2. Class : B. com IV<sup>th</sup> Sem
3. Address for Correspondence : Bedkhal, ₹
4. Contact No. : 7204014057
5. E-Mail : managha151100@gmail.com

Date:



Anagha P. Mohite  
Signature of the Applicant



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Department of Commerce

Certificate Course In Business Correspondence (Course Code B.Com3C-2021)

STUDENTS LIST (2020-21)

Sr.No	Student Name	Class
1	Ms. Abhilasha Koot	B.Com IV Semester
2	Ms. Adarsha Joke	"
3	Ms. Akshata Bhivase	"
4	Ms. Akshata Malage	"
5	Ms. Akshata Patil	"
6	Ms. Anagha Mohite	"
7	Ms. Anjali Muradande	"
8	Ms. Arati Kote	"
9	Ms. Arati Shastri	"
10	Ms. Archana Patil	"
11	Ms. Bhagyashree Khot	"
12	Ms. Deepali Chougule	"
13	Mr. Ganesh Deshinge	"
14	Ms. Gayatri Desai	"
15	Ms. Harshada Ingale	"
16	Ms. Kalyani Gurav	"
17	Ms. Komal Kallimani	"
18	Ms. Nandini Shimpukade	"
19	Mr. Om Chandrakude	"
20	Ms. Prajakta Shippure	"
21	Mr. Prajwal Nerle	"
22	Ms. Pratiksha Honashetti	"
23	Ms. Pritam Chavan	"
24	Ms. Priya Karambale	"
25	Ms. Reshma Kamble	"
26	Ms. Rutuja Kasar	"
27	Ms. Rutuja Powar	"
28	Ms. Shruti Kote	"
29	Ms. Sonali Hindalkar	"
30	Ms. Supriya Aiwale	"
31	Ms. Swaranjali Shinde	"
32	Ms. Swati Khot	"



  
Convenor

  
Head  
Department of Commerce  
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## Department of Commerce

### Certificate Course in Business Correspondence

Course Code : B.com3C -2021

### Course Objectives

#### Introduction

The ability to communicate effectively plays a major role in achieving career success. Technological advancements have increased the need for skilled communicators, and employers state that the application of acceptable communication skills is essential for a workforce to survive in a competitive, global environment. This course is designed to provide the student with those skills.

#### Course Objectives

1. Enable the student to recognize the relationship of effective communications skills to success in academic, work and social environments.
2. Develop both written and oral communication skills to produce clear, complete, accurate messages.
3. Understand message strategies and formats appropriate for professional communication situations.
4. Develop and apply critical thinking skills when determining solutions for communication-related problems.





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Department of Commerce

**CERTIFICATE COURSE IN BUSINESS CORRESPONDENCE**

Course Code: B.Com3C-2021

## Course Syllabus

### Unit I

#### Introduction :

**5 Hours**

Meaning & definition, need for business correspondence, functions of business correspondence.

### Unit II

#### Business Letters:

**5 Hours**

Meaning & definition, essentials of a good business letter, physical properties of a good business letter, planning a business letter.

### Unit III

#### Structure & Layout of Business letter:

**10 Hours**

Heading, Date, Reference, Subject, Inside address, Salutation, Body of Letter, Complimentary close, Signature, Enclosures, Post Script, Copy circulation. Layout – Block form, Semi block form, Indented form, Hanging indented form. Examples of business letters.

### Unit IV

#### Business Email Writing:

**10 Hours**

Email or letter, General etiquette, Structure, Templates, Formatting, Greeting and Sign Off, Example Emails, Use the Correct Tone, Golden Rules of Email Writing.





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**Department of Commerce**  
**Certificate Course In Business Correspondence**  
Course Code : B.Com3C-2021

**STAFF LIST**

1. Smt. S.A. Deshpande.
2. Ms. Snehal Hirekudi.

  
Convenor

  
Head  
Department of Commerce  
K.L.E.'s G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
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**Department of Commerce**  
**Certificate Course In Business Correspondence**  
Course Code: B.Com3C-2021

**TIME TABLE - 2020-21**

Day	Time	Faculty
Monday	3.00 - 4.00 pm	Smt. S.A.Deshpande
Tuesday	3.00 - 4.00 pm	Ms. Snehal Hirikude
Wednesday	3.00 - 4.00 pm	Prof. S.A.Deshpande
Thursday	4.00 - 5.00 pm	Ms. Snehal Hirikude

**Duration: Theory 30 Hours & Practical 10 Hours.**

**Work Load:**

1. Smt. S.A.Deshpande : Module - I & II ( 10 hrs + 10 hrs Practicals)
2. Ms. Snehal Hirekudi : Module - III & IV ( 20 hours )

  
Convenor



  
Head  
Department of Commerce  
K.L.E.'s G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





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Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

Department of Commerce

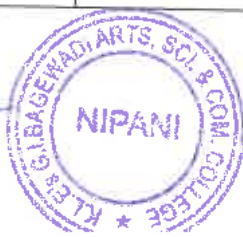
Certificate Course In Business Correspondence

Course Code: B.Com3C-2021

Marks Statement (2020-21)

Sr.No	Student Name	Marks obtained
1	Ms. Abhilasha Koot	47
2	Ms. Adarsha Joke	44
3	Ms. Akshata Bhivase	46
4	Ms. Akshata Malage	45
5	Ms. Akshata Patil	AB
6	Ms. Anagha Mohite	46
7	Ms. Anjali Muradande	46
8	Ms. Arati Kote	45
9	Ms. Arati Shastri	48
10	Ms. Archana Patil	46
11	Ms. Bhagyashree Khot	46
12	Ms. Deepali Chougule	45
13	Mr. Ganesh Deshinge	40
14	Ms. Gayatri Desai	45
15	Ms. Harshada Ingale	46
16	Ms. Kalyani Gurav	45
17	Ms. Komal Kallimani	AB
18	Ms. Nandini Shimpukade	45
19	Mr. Om Chandrakude	47
20	Ms. Prajakta Shippure	46
21	Mr. Prajwal Nerle	45
22	Ms. Pratiksha Honashetti	46
23	Ms. Pritam Chavan	44
24	Ms. Priya Karambale	45
25	Ms. Reshma Kamble	44
26	Ms. Rutuja Kasar	AB
27	Ms. Rutuja Powar	48
28	Ms. Shruti Kote	45
29	Ms. Sonali Hindalkar	44
30	Ms. Supriya Aiwale	46
31	Ms. Swaranjali Shinde	45
32	Ms. Swati Khot	48

Convenor



Head

Department of Commerce  
K.L.E.'s G. I. B. College, Nipani.

PRINCIPAL

G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



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Department of Commerce  
Certificate Course In Business Correspondence  
Course Code: B.Com3C- 2021  
Final Examination

Duration : 1 Hour

Marks : 50

Answer the following questions

1. Write different parts of business letter in a full block format specimen letter. .  
10 marks
2. Write a letter to executive engineer to complain irregular electricity supply in your area.  
20 marks
3. Prepare a resume of a B.Com graduate, applying for the post of accounts assistant in a company  
20 marks



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Department of Commerce  
Certificate Course In Business Correspondence  
Course Code: B.Com3C- 2021

Final Examination

Duration : 1 Hours

Marks : 50

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20 marks
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20 marks



**G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,  
NIPANI - 591-237.**



Accredited at 'A' Level by NAAC with CGPA 3.35

College with Potential for Excellence (CPE)

**EXAMINATION**

Class	: B. com IV <sup>th</sup> sem.	Subject	: Business Correspondance
Roll No.	: 03	Date	: 03/9/2021
Register No.	: C1980609	Test	: I <input type="checkbox"/> II <input type="checkbox"/>
Marks Scored	: 14/50		

Signature of Student

Signature of Valuer

Signature of the Invigilator with Date

1. The Letter head

2. The Place & Address

3. Inside Address

4. salutation

5. Subject

6. Reference

7. Body of the letter

7 a. Introductory Paragraph

7 b. main part

7 c. concluding part

8. complimentary close

9. signature

10. designation

11

11 Enclosures





- 1] The letter head :- generally the name & address of the writing firm is getting printed on the top of the letter which is called the letter head.
  - It express firms personality
  - It should be simple neat & carry dignity
- 2] The date :- The date indicates when the letter has been written.
  - generally date is written on right hand side
  - It is not to be written in figures only
- 3] Reference line :- The reference line is the head of letter which assists in future further reference of the letter. It should be properly placed generally no. are given for reference & are placed near left hand margin for example: Reference No.
- 4] Inside Address :- It is written to indicate the name & address to whom the letter is written generally it is written from left hand margin while writing inside address, courtesy titles like Mr. Miss Prof etc should be used.
- 5] The salutation :- It is a formal wishing or greeting before presenting the subject matter some salutations are Dear Sir, Dear Madam
- 6] Reference line :- subject line pinpoints precisely the subject on which the letter is written. If it is addressed to particular individuals, their attention line may be written
- 7] Body of the letter :- It is the principal part of the letter. The main purpose of writing a letter is written in the body of the letter is divided into 3 parts.  
P.T.O



- a) opening Paragraph
- b) main message
- c) closing Paragraph

8] The complimentary close :- It is like saying good bye, thank you etc. The following are some of the complimentary close.

9] The signature & Designation :- For authentication of the letter it must be signed by the concerned responsible personnel, with his designation.

10] Enclosure :- If documents are sent along with letter all such documents are to be listed on bottom left hand corner of the letter under the captions :  
enclosures as End.

11] Post Script (P.S) :- After signing the letter if the writer desires to add any important matter which is left out in the body of the letter.



2

Manish Patil

D 12.

Aadarsh Nagar

Belgaum.

The Circle Executive Engineer

Municipal Corporation of Nipani, Belgaum

Electricity department

Respected Sir,

Subject: Complaint letter regarding irregular electricity supply.

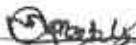
I would like to draw your kind attention towards the irregular electricity supply in our area we are facing several problems like robbery & theft increases.

In our locality there are many students are preparing their Incoming Board exams as well as for other competitive examinations. But this irregularity in electricity supply causing obstacles in their preparations.

So I request you to look into this matter personally. If you do the needful then I shall be very much thankful to you.

Thank you

Yours faithfully  
Manish Patil





19

3)

## RESUME

Name: XYZ :- XYZ  
 Father's Name :- NPE  
 Date of Birth :- 16<sup>th</sup> Oct 1994  
 Parent Address :- Belgum  
 Nationality :- Indian  
 Knowledge of Languages :- I can speak & write  
 English, Hindi, Kannada &  
 Marathi

## Educational Qualification

Name of the Examination	Board / university	Year / marks	Subjects
S.S.L.C	KSEEB	2001 / 500	Eng, Kan, Mar, S, M-Sci
P.U.C	PUEB	2013 / 590	E, M, Bs, A/c, Eco Stat
B.com	RCUB	2016 / 3000	Bs, Eco, A/c, Stat
M.com	RCUB	2018 / 3400	A/c, Eco, Bus.

Experience :- 4 years experience as Accountant in  
 Madkewi

Other hobbies: Running, Dancing, Gardening

Place: Belgum

Sd

Date: 27 Aug 2021

XYZ



# G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI - 591 237.



Accredited at 'A' Level by NAAC with CGPA 3.35

College with Potential for Excellence (CPE)

## EXAMINATION

Class : B.com IV sem (A) Subject : Business correspondence  
 Roll No. : 02 Date : 03/09/2021  
 Register No. : C1930602 Test : I  II   
 Marks Scored : 47/80

A. S. K. K. S.  
 Signature of Student Signature of Valuer Signature of the Invigilator with Date

1] The various parts of business letters are :-

- 1] Letter head.
- 2] Date.
- 3] Reference number.
- 4] Inside address.
- 5] Salutation.
- 6] Subject line and Reference line.
- 7] Body of the letter.
- 8] Complementary close.
- 9] Signature and designation.
- 10] Enclosure.
- 11] Post-script.

1] Letter head :-

The name and address of the writing firm is getting printed on the top of the letter which is called the letter head.

2] Date :-

The date indicates when the letter has been written. The date is written on right hand side.

3] Reference number :-

The reference number of the head of the letter which assists in future further reference of the letter. It should be properly placed.







#### 4) Inside name and address :-

It is written to indicate the name and address to whom the letter is written.

#### 5) Salutation :-

It is a formal wishing greeting by presenting the subject matter in an expression of courtesy intended to put the reader in a friendly and respectful frame of mind.

#### 6) Subject line and Reference line :-

Subject lines precisely the subject on which the letter is written is addressed to a particular individual than attention line may be written.

#### 7) Body of the letter :-

It is the principle of part of the letter. The main purpose of writing a letter is written in the body of the letter. The purpose of writing a letter is achieved by presenting the matter in the best way.

They are classified as four

#### i) opening paragraph :-

Introduce yourself or act the letter received thanking for the letter.

#### ii) main message :-

It is core or heart of subject matter the main purpose of writing a letter is achieved. Information is stated along with facts and figures, give comparison, proof, repeat the information into suitable paragraph.

iii) closing paragraph :-

They is the finishing part of the letter. finishing touch is giving in this paragraph.

iv) complementary close :-

It is the like saying good bye, thank you etc.

v) signature and designation :-

For authentication of the letter, it must be signed by the concerned responsible person or personnel with his designation.

vi) Enclosures :-

If documents are sent along with letter, all such documents are to be kept on the bottom, left hand, corner of the letter under the caption "enclosures" or "enc".

vii) post-script [p.s.] :-

After signing the letter if the writer desires to add any important matter which is deferred in the body of the letter, it may be added at the end such matter, it may be added at the end such matter written, is known as post-script.



number  
sheet  
of paper  
in

## The few block format letters :-

① letter head

② Date

③ Reference number

④ Inside address

⑤ Salutation

⑥ Subject

⑦ Body of the letter

⑧ Complementary close

⑨ Signature and designation

⑩ Enclosure

⑪ Post-script

Note :- All the above points may be written with open punctuation or closed punctuation.









Thank you

Yours faithfully

Signature

[Smitha]

Smitha Patel

3] A Resume of a B.com graduate for applying for the post of account assistant.

ABC.

Gandhi Nagar.

Nipponi.

20th April 2021

Reference no :- 218/92

The secretary ssp  
SSP, Samthi, Siddapur  
Ulhas Karnatak, dist. Dharwad  
Karnatak.

Respected Sir / Madam,

Subject :- Application for the post of account assistant.

Reference :- your advertisement which in "the hindu" dated 19th April 2021.

with the reference to advertisement which appeared in "The hindu", dated 19th April 2021, I am happy to apply for the post of account assistant. I have good communication skills, I have good command over all languages, I have basic knowledge about computers.



and my knowledge of computers. I have account subject forever. and also I expert in preparing account of various department. I will render my services with great satisfaction.

I have enclosed my resume along with this application. I hope it will be meet your requirements.

Thank you.

Yours faithfully  
ABC

=: Resume :=

Name : ABC  
Father's name : XYZ  
Date of Birth : 20th April 1998  
Permanent address : Alp-1-Nipani, Dist:- Begaluru  
Nationality : Indian  
Telephone No : 7745329840  
E-mail : ABC@gmail.com  
Knowledge of languages : I can able to communicate in Hindi, Marathi, Kannada and English etc.

Educational qualification :-

Education	Board / University	Year	marks
SSLC	KSEEB	2014	86%
PUC	PUEB	2016	92%
B.com	RouB	2019	85%

other qualification :-

I have certificate of computer from poatibha computer education.

+ ms-office,

+ ms-excel.

+ power point,

+ Tally.

experience :- I have done 3 years of experience.

hobby :- Reading books, playing chess etc.

place :- nippur.

SD

CABC).

Date :- 29<sup>th</sup> Aug 2020





K.L.E. Society's

# G. I. Bagewadi Arts, Science & Commerce College, Nipani

College with Potential for Excellence

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

*Department of Commerce*

*Certificate*

This is to certify that Mr. / Ms. Reshma Kamble  
of B. Com IV Sem has successfully completed Certificate Course  
in Business Correspondence during the year 2020 - 2021 & obtained Grade A.

Head of the Department



Principal





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04.09.2021


### Report on Certificate Course in Business Correspondence

Course Code: B.Com3C-2021

Name of the Department	Commerce
Name of the Course Organized	Certificate Course
Title of the Course	Business Correspondence
Date of Commencement	3rd May, 2021
Name of the Convener	Smt. S. A. Deshpande
No of Students Enrolled	32
Course Duration	40 Hours (30 Hrs Theory, 10 Hrs Practicals)
Teaching Faculty	Smt. S. A. Deshpande Ms. Snehal Hirikudi
Mode of Teaching	Online And Offline
Date of Examination	03.09.2021
Mode of Examination	Written
Course Objectives	1. To develop written and oral communication skills 2. To understand message strategies and formats appropriate for professional communication.
Course Outcomes	Sharpens communication skills, builds confidence, and can gain advantage in the workplace.
Photo Gallery	

  
Convener



  
Head  
Department of Commerce  
K.L.E.'s G. I. B. College, Nipani.

  
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G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



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04.09.2021

Department of Commerce  
**Certificate Course in Business Correspondence**  
**Course Code: B.Com3C-2021**

**Report (2020-21)**

The ability to communicate effectively plays a major role in achieving career success. Technological advancements have increased the need for skilled communicators, and employers state that the application of acceptable communication skills is essential for a workforce to survive in a competitive, global environment. To address and realize above needs Department of Commerce continues to offer Certificate Course in "Business Correspondence" for the academic year 2020-21. The course consists of 30 hours theory and 10 hours of practical.

Thirty two students enrolled their names for the course. Classes were conducted from 3rd May, 2021 to August, 2021. After the completion of the course written test was held for 50 marks and certificates were issued to the students.

  
Convener

  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





**K.L.E. Society's**

**G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI**

**DEPARTMENT OF COMMERCE**

**CERTIFICATE COURSE**

**IN**

**SOFT SKILL DEVELOPMENT**

**COURSE CODE: B.COM4C-2021**



**2020 - 21**



K.L.E. Society's  
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Date: 23.04.2021

## Department of Commerce

### NOTICE

The Department is going to commence certificate course in Soft Skill Development (Course Code: B Com4C-2021) for the academic year 2020-21. Interested students of B.Com II Semester are hereby informed to enroll their names in the department on or before 26<sup>th</sup> April, 2021.

  
Convener

  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
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**Department of Commerce**

**Certificate Course in Soft Skill Development**

**Enrollment Form - 2020-21**

To,

Head of the Department Commerce,

KLE's G.L. Bagewadi College, Nipani.

Application for the certificate course in Soft Skill Development

**PARTICULARS OF APPLICANT**

1. Name : Miss Laxmi P Amble
2. Class : B. Com II<sup>nd</sup> Sem
3. Address for Correspondence : A/P : Nipani Tal : Nipani  
Dist : Belgavi
4. Contact No. : 7892105038
5. E-Mail : amblelaxmi2@gmail.com

Date:



Amble  
Signature of the Applicant



K.L.E. Society's  
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**Department of Commerce**

**Certificate Course in Soft Skill Development**

**Enrollment Form - 2020-21**

To,

Head of the Department Commerce,

KLE's G.I. Bagewadi College, Nipani.


Application for the certificate course in Soft Skill Development

**PARTICULARS OF APPLICANT**

1. Name : Mitali. M. chinehali.
2. Class : B.com II sem.
3. Address for Correspondence : G Kumbhar Galli, Nipani.
4. Contact No. : 89 9611541255 / 8951345302.
5. E-Mail : mitalichinehali@gmail.com.

Date:



  
Signature of the Applicant



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**Certificate Course In Soft Skill Development**

**Course Code: B.Com4C-2021**

**STUDENT LIST - 2020-21**



Sl.No	Roll No.	Student Name	Class
1	01	Mr. Abhishek A Khot	B.Com II Semester
2	14	Mr. Aveenash V Ramani	B.Com II Semester
3	29	Miss. Ghalimati Shruti P	B.Com II Semester
4	32	Miss. Heena R Patil	B.Com II Semester
5	41	Miss. Laxmi P Amble	B.Com II Semester
6	46	Miss. Manjula V Aidmale	B.Com II Semester
7	49	Miss. Mithali M Chinchali	B.Com II Semester
8	57	Miss. Nivedita S Sabakale	B.Com II Semester
9	76	Miss. Prerana J Shinde	B.Com II Semester
10	77	Miss. Priyanka B Somagannavar	B.Com II Semester
11	82	Miss. Rajashri V Diwate	B.Com II Semester
12	85	Miss. Rasika M Khot	B.Com II Semester
13	86	Miss. Revati S Ankali	B.Com II Semester
14	92	Miss. Sakshi M Ankali	B.Com II Semester
15	98	Mr. Sandeep A Patil	B.Com II Semester
16	99	Mr. Sandip S Hogale	B.Com II Semester
17	106	Miss. Savari Bamane	B.Com II Semester
18	108	Miss. Shahajanabi S Mulla	B.Com II Semester
19	112	Mr. Shivam P Kamate	B.Com II Semester
20	114	Mr. Shivaraj R Kumbar	B.Com II Semester
21	120	Miss. Shweta S Murale	B.Com II Semester
22	137	Miss. Swati S Kote	B.Com II Semester
23	127	Mr. Sourabh Davare	B.Com II Semester
24	141	Mr. Vaibhav R Khot	B.Com II Semester
25	144	Miss. Vidyashri Kage	B.Com II Semester
26	107	Miss. Savitri Naik	B.Com II Semester
27	97	Miss. Samruddhi Patravale	B.Com II Semester

28	100	Miss. Sangeeta B Vasawade	B.Com II Semester
29	146	Mr. Vinayak S Patil	B.Com II Semester
30	148	Miss. Zeenat Sidnale	B.Com II Semester
31	70	Mr. Pratik Patil	B.Com II Semester
32	35	Mr. Kartik Magadum	B.Com II Semester

  
Head

Department of Commerce  
K.L.E's G. I. B. College, Nipani.





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**Department of Commerce**

**Certificate Course In Soft Skill Development**

**Course Code: B.Com4C-2021**

### **Course Objectives**

#### **Introduction**

While hard skills teach us what to do, soft skills tell us how to apply our hard skills in a social environment. The focus of the course is to develop a wide variety of soft skills starting from communication, to working in different environments, developing emotional sensitivity, learning creative and critical decision making, developing awareness of how to work with and negotiate with people and to resolve stress and conflict in ourselves and others. Soft skills provide students with a strong conceptual and practical framework to build, develop and manage teams. They play an important role in the development of the students overall personality, thereby enhancing their career prospects.

#### **Course Objectives**

1. Develop effective communication skills
2. Become self-confident individuals by mastering inter- personal skills, team management skills, and leadership skills.
3. Develop all-round personalities with a mature outlook to function effectively in different circumstances.
4. Expose students to right attitudinal and behavioral aspects and to build the same through activities





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### **Certificate Course In Soft Skill Development**

**Course Code: B.Com4C-2021**

### **Syllabus**

Unit	Contents	No. of Hours
I	Introduction, Objective, Definitions, Integral Parts of Soft Skills, Outcomes of Soft Skills Development, Personal Development Plan	07
II	Meaning, Elements, Uses, Characteristics, Process of Communication, Models, Functions of Communication Model, Team Work and Concept of Leadership Skill, Public Speaking	08
III	Interview Skill: Interviewer – Interviewee in depth perspectives Before, During and After the interview. Tips for success. Time Management: Concepts, Essential Tips for Time management.	07
IV	Decision Making and Problem Solving Skill: Meaning, Types and Models, group, Ethical decision making problems and dilemmas in application of these skills. Stress Management: Stress- Definition, nature, types, symptoms and causes.	08

  
Head

Department of Commerce  
K.L.E's G. I. B. College, Nipani.



  
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## Department of Commerce

### Certificate Course in Soft Skill Development

Course Code: B.Com4C-2021

#### STAFF LIST

1. Prof. Priyanka Kamate
2. Prof. Pallavi Anure



*P. Anure*  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



K.L.E. Society's  
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(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

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## Department of Commerce

### Certificate Course In Soft Skill Development

Course Code: B.Com4C-2021

### TIME - TABLE


Day	Time	Faculty
Wednesday	3.00 - 4.00 pm	Prof. Priyanka Kamate
Thursday	3.00 - 4.00 pm	Prof. Pallavi Anure
Friday	3.00 - 4.00 pm	Prof. Priyanka Kamate
Saturday	3.00 - 4.00 pm	Prof. Pallavi Anure

**Duration: Theory 30 Hours & Practical 5 Hours.**

#### Work Load:

1. Prof. Priyanka Kamate : Module - I and II ( 15 hours)
2. Prof. Pallavi Anure : Module - III & IV ( 15 hours )



  
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**Department of Commerce**

**Certificate Course in Soft Skill Development**

**Marks Statement of Test**

**Class : B.Com II Sem**

**Date: 06/09/2021**

Roll No.	Name of the Student	Marks
01	Mr. Abhishek A Khot	20
14	Mr. Aveenash V Ramani	19
29	Miss. Ghalimati Shruti P	19
32	Miss. Heena R Patil	19
41	Miss. Laxmi P Amble	19
46	Miss. Manjula V Aidmale	19
49	Miss. Mithali M Chinchali	18
57	Miss. Nivedita S Sabakale	AB
76	Miss. Prerana J Shinde	19
77	Miss. Priyanka B Somagannavar	18
82	Miss. Rajashri V Diwate	19
85	Miss. Rasika M Khot	18
86	Miss. Revati S Ankali	19
92	Miss. Sakshi M Ankali	18
98	Mr. Sandeep A Patil	18
99	Mr. Sandip S Hogale	20
106	Miss. Savari Bamane	20
108	Miss. Shahajanabi S Mulla	19
112	Mr. Shivam P Kamate	19
114	Mr. Shivaraj R Kumbar	19





120	Miss. Shweta S Murale	18
137	Miss. Swati S Kote	18
127	Mr. Sourabh Davare	19
141	Mr. Vaibhav R Khot	18
144	Miss. Vidyashri Kage	19
107	Miss. Savitri Naik	19
97	Miss. Samruddhi Patravale	18
100	Miss. Sangeeta B Vasawade	19
146	Mr. Vinayak S Patil	18
148	Miss. Zeenat Sidnale	20
70	Mr. Pratik Patil	19
35	Mr. Kartik Magadum	18

  
**Head**  
 Department of Commerce  
 K.L.E's G. I. B. College, Nipani.



  
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**Department of Commerce**

**Certificate Course in Soft Skills Development**

**Test**

**Class : B.Com II Sem**

**Date: 06/09/2021**

-----  
**Q. No. 1 Answer any two of the following.**

**( 2 x 10=20)**

1. Define Soft Skills. Explain in detail integral parts of soft skills.
2. What do you mean by communication. Explain in detail process of communication.
3. Define Stress. Explain in detail causes of Stress Management.



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NIPANI - 591 237.**



Accredited at 'A' Level by NAAC with CGPA 3.35

College with Potential for Excellence (CPE)

**EXAMINATION**

Class : B.Com IIIrd Sem 'B' Subject : soft skill in development  
 Roll No. : 76 Date :  
 Register No. : C2032076 Test : I  II   
 Marks Scored : 19/20

Dishinde  
Signature of Student

B  
Signature of Valuer

B  
Signature of the Invigilator with Date

Q1) Define soft skills and explain integral part of soft skills?

→ According to researcher conducted in Harvard and Stanford universities only 15% of your career success is provided by your hard skills, whilst other 85% by so called soft skills. "soft skills get little respect but will make or break your career".

\* Definition:-

The perception of what is a soft skill differs from context to context. A subject may be considered a soft skill in one particular area, and may be considered a hard skill in another. on top of it the understanding of what should be recognized as a soft skill varies widely.

\* Integral part of soft skills:-

① self-management system:-

consists of self-motivation, taking responsibility, task setting/prioritizing, time-management. The structure of self-management system is detected in the table below.

\* Commitment and determination

\* Ability to work unsupervised

\* Time-management and working to deadlines

\* prioritizing task

\* Working under pressure

\* Independence, self-reliance and initiative

\* Reliability



### ② critical thinking:-

This way of thinking, which does not accept the argument and conclusions blindly, rather, it examines assumptions, recognize hidden values, evaluate the data and conclusions.

#### \* Example of critical thinking:-

- > Experimentation
- > social research
- > creative, problem solving
- > identify the issue

### ③ Reflection:-

is a form of thinking used to fulfill a purpose or to achieve some anticipated outcome and is largely based on the further processing of knowledge and understanding that we already possess.

#### \* Reflective practice is triggered with the help of self assessment questions:-

- > What am i trying to do exactly?
- > Why am i doing it?
- > What went well and why?
- > What went less well and why?

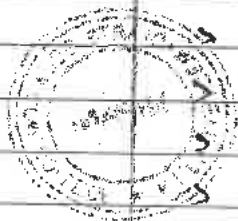
### ④ communication and interaction

#### \* Effective communication provides for high level of presentation skills:-

- > To increase both skills and confidence skills
- > To improve research, design and communication skills

#### \* skillful writing examples:-

- > Technical writing
- > script writing
- > observation
- > press release



### ⑥ Group work:-

is one of the most useful ways of learning about cooperation, shared responsibility, project, planning, & time management. Learning how to work successfully in a group has a close association with how we participate in the work place and include:

- social responsibility
- using logical and rational arguments to persuade others
- identifying the needs of others and building positive relationships
- understanding group dynamics.

### ⑦ Assertiveness:-

It means "confident behaviour" and "self-confidence". It is an individual ability to advance and come true own aims, needs, wishes, claims, interest & feelings.

\* Assertiveness training helps to:-

- > explore strategies for assertiveness and influence
- > develop and enhance self confidence and self esteem.

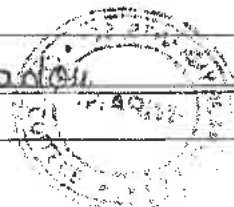
### ⑧ peer-to-peer:-

is an interaction and learning method when the source of knowledge is not a professor but a peer student. It promotes participation and interaction.

\* Mentoring:-

- > provided valuable experience to enhance their CVs
- > Not just doing the evaluating but also actively engaged
- > mentoring at point of need
- > Evidence of strong success rate
- > Number of models:

- mentoring
- learning leader
- student ambassador



9



Q) What do you mean by communication? Explain in detail process of communication.

→ Communication is the process by which people exchange information, feelings, and meaning through verbal and non-verbal messages. It is face-to-face communication.

\* Process of communication:-

The process of communication refers to the transmission or passage of information or message from the sender through a selected channel to the receiver overcoming barriers that affect its pace.

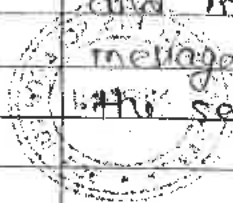
> The following is a brief analysis of the important steps of the process of communication.

\* Sender:-

The very foundation of communication process is laid by the person who transmits or sends the message. He is the sender of the message which may be a thought, idea, a picture, symbol, report or an order and posture, and gesture, even a momentary smile. The sender is therefore the initiator of the message that need to be transmitted.

\* Message:-

Message is referred to as the information conveyed by words as in speech and write-ups, signs, pictures or symbols depending upon the situation, and the nature and importance of information desired to be sent. Message is the heart of communication. It is the content that the sender wants to convey to the receiver.



\* Encoding :-

Encoding is putting the targeted message into appropriate medium which may be verbal or non-verbal depending upon the situation. Time, space and nature of the message to be sent. The sender puts the message into a series of symbols, pictures or words which will be communicated to the intended receiver.

\* Channel :-

Channel refers to the way or mode the message flows or is transmitted through. The message is transmitted over a channel that links the sender with the receiver. The message may be oral or written and it may be transmitted through a memorandum, a computer, telephone, cell phone, apps or televisions.

\* Receiver :-

Receiver is the person or group who the message is meant for. He may be a listener, a reader or a viewer. Any negligence on the part of the receiver may make the communication ineffective. The receiver needs to comprehend the message sent in the best possible manner such that the true intent of the communication is attained. The extent to which the receiver decodes the message depends on his/her knowledge of the subject matter of the message, experience, trust and relationship with the sender.

\* Decoding :-

Decoding refers to interpreting or converting the sent message into intelligible language. It simply means comprehending the message. The receiver after receiving the message interprets it and tries to understand it in the best possible manner.



\* Feedback

Feedback is the ultimate aspect of communication process. It receives as to the message in its letter and spirit. In other words, the receiver has correctly interpreted the message as it was intended by the sender. It is instrumental to make communication effective and purposeful.

10





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College with Potential for Excellence (CPE)

## EXAMINATION

Class	: B.Com II Sem	Subject	: Soft Skill
Roll No.	: 01	Date	:
Register No.	: G2032001	Test	: I <input type="checkbox"/> II <input type="checkbox"/>
Marks Scored	: 20/20		
Signature of Student	Signature of Valuer	Signature of the Invigilator with Date	



Que 01) Define soft skills. Explain in details integral parts of soft skill.

⇒ Soft skill is a term often associated with a persons emotional intelligence Quotient, the cluster of personality traits, social graces, communication, Language, personal habits, friend lines, managing people, leadership etc, that characterise relationship with other people.

### Integral parts of Soft skills

01) Self-Management System ⇒

It consists of self-motivation, taking responsibility, task, setting, time-management. The structure of self-management system is depicted in the below:

⇒ Commitment & determination, Ability to work unsupervised, Time-management & working to deadlines, prioritizing tasks, working under pressure.

02) Critical Thinking ⇒

- Thinking about thinking.
- This way of thinking, which does not accept the arguments & conclusion blindly, rather it examine assumption



recognize hidden values, evaluated the data & conclusions.

#### + Example

- ⊙ Experimentation
- ⊙ Social research
- ⊙ Data interpretation & explanation
- ⊙ Creative problem solving.

#### 03> Reflection :->

It is a form of thinking used to fulfill a purpose or to achieve some anticipated outcome & is largely based on the further processing of knowledge & understanding.

⊙ Reflective practice: Some self assessment questions:

- > What am I trying to do exactly?
- > Why am I doing it?
- > What went well & why?
- > What went less well & why?

⊙ Another scheme of reflection practice.

- 1> The reflective
- 2> Description
- 3> Interpretation
- 4> Outcome which involves hard systematic thinking & insight.

#### 04> Communication & Interaction :->

⊙ Use of clear, appropriate & accurate writing style

⊙ Understanding & appropriate of the conventions of academic discourse & citation

➤ Effective communication provides for







high level of presentation skills.

① To increase both skills & confidence levels.

② To improve research, design & communication skills.

③ To develop team working & project management skills.

④ Academic debates :

→ Content & Formats of academic debate

→ Listening skills.

→ Giving & receiving feedback.

→ Reacting to grounded.

⑤ Skillful writing Examples :

→ Technical writing

→ Script writing

→ Observation

→ Sign language qualification.

⑥ Listening to others :

→ Role play → Sender / Receiver

→ Same message, same audience.

→ Constructed conversation.

osx Group Work : ⇒ It is one of the most useful ways of learning about co-operation, shared responsibility, project planning, & time management.

→ How we participate in the workplace & includes

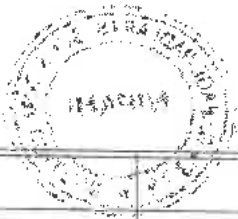
>> Social responsibility

>> Using logical & rational argument to persuade others

>> Understanding group dynamics

>> Reflection on the image you portray.

10



06) Assertiveness  $\Rightarrow$  Means confident behaviour & self-confidence it is an individual's ability to advance & come true own aims, needs, wishes, claims, interest & feeling.

07) Peer-to-peer: Is an interaction & learning method when the source of knowledge is not professor but a peer student. It promotes participation & interaction.

Que 02)

What do you mean by communication Explain in detail process of communication

$\Rightarrow$

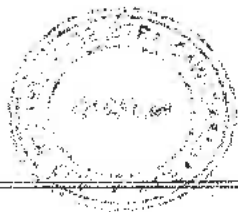
Interpersonal communication is the process by which people exchange information, feelings & meaning through verbal & non-verbal messages. It is face to face communication.

\* Process of Communication  $\Rightarrow$

The process of communication refers to the transmission or passage of information or message from the sender through a selected channel to the receiver, overcoming barriers that affect its pace.

$\rightarrow$  The following is a brief analysis of the important steps of the process of communication.

01) Sender  $\Rightarrow$  The very foundation of communication process is laid by the person who transmits or sends the



message. He is the sender of the message which may be a thought, idea, a picture, symbol, report or an order & postures & gestures, even a momentary smile.

02) Message  $\Rightarrow$  Message is referred to as the information conveyed by words as in speech & write-up, sign, pictures or symbols depending upon the situation & the nature & importance of information derived to be sent.

03) Encoding  $\Rightarrow$  Encoding is putting the targeted message into appropriate medium which may be verbal or non-verbal depending upon the situation, time, space & nature of the message to be sent. The sender posts the message into a series of symbols, pictures or words which will be communicated to the intended receiver.

04) Channel  $\Rightarrow$  Channel refers to the way or mode the message flows or is transmitted through, that links the sender with the receiver.

05) Receiver  $\Rightarrow$  Receiver is the person or group who the message is meant for. He may be a listener, a reader, or a viewer. Any negligency on the part of the receiver may track the communication ineffective.



06) Decoding :-> Decoding refers to interpreting the sent message into intelligible language. It simply means comprehending the message. The receiver after receiving the message interprets it and tries to understand it in the best possible manner.

07) Feedback :-> Feedback is the ultimate aspect of communication process. It refers to the response of the receiver as to the message sent to him/her by the sender. Feedback is necessary, has been effectively encoded, sent, decoded & comprehended.

\* Consider the following points related to the feedback involved in the process of communication.

→ It enhances the effectiveness of the communication as it permits the sender to know the efficiency of his message.

→ It enables the sender to know if his/her message has been properly comprehended.

→ We can represent the above steps in a model as the model of communication process.





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**Department of Commerce**

**Certificate**

This is to Certify that Mr/Ms, ..... *Shweta* ..... *Murale* .....

of ..... *B.com I year* ..... has Successfully Completed Certificate Course in Soft Skill  
Development During the Year 2020-2021

**Head of the Department**



*Murale*  
**Principal**






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**Report on Certificate Course in Soft Skill Development**  
**Course Code: B.Com4C-2021**

Name of the Department	Commerce
Name of the Course Organized	Certificate Course
Title of the Course	Soft Skill Development
Date of Commencement	28 <sup>th</sup> July, 2021
Name of the Convener	Smt. Priyanka Kamate
No of Students Enrolled	32
Course Duration	35 Hours (30 Hrs Theory, 5 Hrs Practicals)
Teaching Faculty	Smt. Priyanka Kamate Ms. Pallavi Anure
Mode of Teaching	Offline
Date of Examination	06 <sup>th</sup> September, 2021
Mode of Examination	Written
Course Objectives	<ol style="list-style-type: none"><li>1. To encourage all round development of students by focusing on soft skills.</li><li>2. To develop and nurture the soft skills of students through individual and group activities.</li></ol>
Course Outcomes	On completion of the course, student will be able to- <ol style="list-style-type: none"><li>1. Effectively communicate through verbal/oral communication and improve the listening skills</li><li>2. Become more effective individual through goal setting, self motivation and practicing creative thinking</li></ol>
Photo Gallery	



  
Head

Department of Commerce  
K.L.E.'s G. I. B. College, Nipani.

  
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**Department of Commerce**  
**Certificate Course in Soft Skill Development**  
**Course Code: B.Com4C-2021**

**Report (2020-21)**

Soft skills a buzz word today has attracted the attention of students, professional and entrepreneurs all over the world. The course, with its interactive and need based modules, will address various challenges of communication as well as behavioral skills faced by individuals at workplace and organizations in bridging the gaps through effective skills of interviews, group discussions, meeting management, presentations and nuances of drafting various business documents for sustainability in today's global world. To address and realize above needs Department of Commerce has formulated Certificate Course in "Soft Skill Development" for the academic year 2020-21. Thirty Two students have actively enrolled for the course. The course consists of 30 hours theory and 5 hours of practical. Classes were conducted from 28<sup>th</sup> July, 2021 to 03<sup>rd</sup> September, 2021. After the completion of the course written test was held for 20 marks and certificates were issued to the students.

  
Convener

  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani



  
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G.I. Bagewadi Arts, Science &  
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## DEPARTMENT OF BOTANY

Ref. GIBN/Bot/CCBot /Hort-1/2020-21

Date: 03.12.2020

### NOTICE

Department of Botany is introducing a "Certificate Course in Horticultural techniques-Olericulture" in the month of December 2020. The interested students can enroll their names to Smt. S.S.Sunnal, Department of Botany on or before 10<sup>th</sup> December 2020.

*[Signature]*

HOD

HEAD

Department of Botany

G. I. Bagewadi College, Nipani.

*[Signature]*

IQAC Coordinator

IQAC Co-ordinator

K.L.E.'s G. I. B. College, Nipani.

*[Signature]*

PRINCIPAL

Principal,

G. I. Bagewadi Arts, Science & Commerce College, NIPANI.



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**G.I.Bagewadi Arts, Science & Commerce College Nipani**  
**DEPARTMENT OF BOTANY**

**Certificate Course in Olericulture**  
**List of students enrolled for Certificate Course 2020-21**

Sl.No.	Roll.No	Name
1	1	Adesh Patil
2	6	Aniket R. Sadalage
3	13	Kiran B. Irole
4	14	Kiran K Karibalappagol
5	16	Mahesh S.Gavade
6	17	Mahesh A. Kadapure
7	18	Maheshchandra Dhange
8	23	Nikeeta A. Patil
9	25	Omkar B Kore
10	26	Pavan Bilage
11	27	Rakesh Sutar
12	29	Ritu S. Billkar
13	30	Rudra R. Magadum
14	31	Rukmini B Talwar
15	33	Rutuja B. Desai
16	36	Sagar B. Bagadi
17	37	Sahil S. Patil
18	40	Sana A.Mulla
19	44	Shridhar S. Hawaldar
20	46	Shrutika A.Kamate
21	50	Sneha A. Ingale
22	54	Sourabh Vaigude
23	58	Sushma Mathapati
24	59	Trupti A. Kamalakar
25	62	Abhishek Narayankar





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## DEPARTMENT OF BOTANY

Ref.- GIBN/Bot/CCBot1/Hort/2020-21

Date: 05.12.2020

### Certificate Course in Horticultural techniques- Olericulture

#### Introduction:

Horticulture is the branch of agriculture that deals with the art, science, technology, and business of growing plants. It includes the cultivation of medicinal plants, fruits, vegetables, nuts, seeds, herbs, sprouts, mushrooms, algae, flowers, seaweeds and non-food crops such as grass and ornamental trees and plants. It also includes plant conservation, landscape restoration, landscape and garden design, construction, and maintenance, and arboriculture. Inside agriculture, horticulture contrasts with extensive field farming as well as animal husbandry

#### Programme Objective:

Through Horticulture, one can apply their knowledge, skills, and technologies used to grow intensively produced plants for human food and non-food uses and for personal or social needs.

They can work to propagate plants and cultivate them with the aim of improving plant growth, yields, quality, nutritional value, and resistance to insects, diseases, and environmental stresses.

It makes people to work as gardeners, growers, therapists, designers, and technical advisors in the food and non-food sectors of horticulture. Horticulture even refers to the growing of plants in a field or garden.

**Course Duration:** Three Months (30 hrs theory + 10 hrs practical= 40 hours)







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## DEPARTMENT OF BOTANY

### Syllabus for Certificate Course in Horticultural techniques -Olericulture

- Unit 1:** 8 hrs
- Methods of Propagation: Natural and Artificial
- Unit 2: Green House technology:** 8 hrs
- Introduction , advantages and limitations
  - Types and structure.
  - As applied to ornamental and vegetable plants
- Unit 3: Harvest Technology:** 8 hrs
- Management of Flowers
  - Post harvest technology
- Unit 4: Weed Management:** 6 hrs
- Invasive weeds
  - Weed control

**Practicals:** 8 hrs

1. Tools used in horticulture
2. Methods of cultivation with respect to vegetable plants
3. Flower arrangement
4. Vegetables carving

**CONVENER:** Prof. (smt) S.B.Patil .H.O.D.

**RESOURCE PERSONS:** Smt. S.S.Sunnal

Dr. Smt. S. P. Shiragave

**EVALUATION METHOD:**

- **Theory:** One paper of one and half hrs duration for 30 marks
- **Practical:** 1 hour duration for 20 marks

**REFERENCE:**

- Text Book of Horticulture- K. Manibhushan Rao,- Macmillan India Ltd.
- Introduction to Horticulture- N.Kumar, 1<sup>st</sup> edn., Rajalaksmi Publication, 1996
- C.R. Adams, *Principles of Horticulture* Butterworth-Heinemann; 5th edition (11 Aug 2008), ISBN 0-7506-8694-4
- Olericulture-Fundamental of Vegetable Production (pp.347-373) Edition: 1Chapter: 19 Publisher: Kalyani publisher



Olericulture 2020-21

← Practical →

Reg. No.	Roll No.	Student Name	17-12-20	8-01-21	9-01-21	13-01-21	16-01-21	18-01-21	23-01-21	28-01-21	29-01-21	4-02-21	5-02-21	06-02-21	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Sl.No.	Roll No.	Name	1	2	3	4	5	6	7	8	9	10	11	12																						
1	1	Adesh Patil	1	.	2	.	3	4	5	.	6	.	7	8					.	.	1	2	3													
2	6	Aniket R. Sadalage	1	.	.	2	3	4	5	.	.	6	7	8					1	2	3	.	4													
3	13	Kiran B. Irole	1	2	.	.	3	4	5	6	7	.	.	8					1	.	2	3	4													
4	14	Kiran K Karibalappagol	1	2	3	.	.	4	5	6	7	8	9						1	.	2	3	4													
5	16	Mahesh S.Gavade	1	2	3	4	.	.	5	.	6	.	7	8					1	2	3	.	.													
6	17	Mahesh A. Kadapure	1	.	2	3	4	.	5	.	6	.	7	.					1	2	3	4	.													
7	18	Maheshchandra Dhange	1	2	3	.	4	5	.	6	7	8	.	10					1	.	2	.	3													
8	23	Nikeeta A. Patil	1	2	3	4	5	6	7	8	9	10	.	11					1	2	3	4	5													
9	25	Omkar B Kore	1	2	.	.	3	4	.	.	5	6	7	8					1	.	.	2	3													
10	26	Pavan Bilage	1	2	3	4	5	.	6	7	8	9	10	.					1	2	.	3	.													
11	27	Rakesh Sutar	1	.	.	2	3	4	5	.	6	7	8	9					.	1	2	.	3													
12	29	Ritu S. Billkar	1	2	3	4	.	.	.	8	9	.	10	.					1	2	3	4	.													
13	30	Rudra R. Magadum	1	2	3	4	.	.	.	.	5	.	6	.					.	1	2	3	.													
14	31	Rukmini B Talwar	1	2	3	4	5	6	7	8	9	10	11	12					1	2	3	4	5													
15	33	Rutuja B. Desai	1	2	3	4	5	6	.	7	.	8	9	10					1	2	3	4	5													
16	36	Sagar B. Bagadi	1	2	3	.	.	4	.	.	7	8	.	9					.	.	1	2	3													
17	37	Sahil S. Patil	1	2	3	4	5	6	7	8	9	10	11	12					1	2	3	4	5													
18	40	Sana A.Mulla	1	2	3	4	5	6	7	8	9	10	11	12					1	2	3	4	5													
19	44	Shridhar S. Hawaldar	1	.	.	.	.	2	3	.	4	5	6	7					1	.	2	3	4													
20	46	Shrutika A.Kamate	1	2	3	4	5	6	7	.	8	.	.	9					1	2	.	3	4													
21	50	Sneha A. Ingale	1	2	3	4	5	6	7	8	.	9	10	11					1	2	3	4	5													
22	54	Sourabh Vaigude	1	2	3	4	5	6	.	7	8	.	.	9					1	2	3	.	4													
23	58	Sushma Mathapati	1	2	3	4	.	5	6	7	8	9	.	10					1	2	3	4	5													
24	59	Trupti A. Kamalakar	1	2	3	4	5	6	.	7	8	.	.	9					1	.	2	3	4													
25	62	Abhishek Narayankar	1	.	.	.	.	2	3	4	5	6	.	7					1	.	2	.	3													





**K.L.E. SOCIETY'S**  
**G I BAGEWADI ARTS, SCIENCE & COMMERCE**  
**COLLEGE NIPANI – 591 237 (Karnataka-India)**

(Reaccredited by NAAC at 'A' Level with CGPA 3.35)

## “Certificate Course in Horticultural Techniques”

*Conducted By*

**DEPARTMENT OF BOTANY**

# Certificate

This is to certify that Mr./Ms. Rukmini B. Jalwar of  
B.Sc III Semester for the year 2020-21 has completed the Certificate Course in  
Horticultural Techniques satisfactorily and secured A grade.

  
**HEAD**

**DEPT. OF BOTANY**

  
**PRINCIPAL**

J S



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Ph.: 08338-220116

## DEPARTMENT OF BOTANY

Ref. - GIBN/Bot/CC/FN-2021

Date: 25.08.2021

### NOTICE

Department of Botany is conducting a "Certificate Course in Food Processing and Nutrition" in the month of August 2021. The interested students can enroll their names to Smt. S.B.Patil on or before **30<sup>th</sup> July 2021**

  
**HOD**  
Head

Department of Botany  
K.L.E's G. I. B. College, Nipani.

  
**PRINCIPAL**  
Principal,

G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



K.L.E.Society's  
**G.I.Bagewadi Arts, Science & Commerce College Nipani**  
**DEPARTMENT OF BOTANY**

**Certificate Course in Food Processing**  
**List of students enrolled for Certificate Course 2020-21**

Sl.No.	Roll. No	Name
1	4	Akshata Kulkarni
2	16	Mahesh S.Gavade
3	18	Maheshchandra Dhange
4	19	Manasi Gurav
5	26	Pavan Bilage
6	27	Rakesh Sutar
7	28	Rashmi Sidnale
8	31	Rukmini B Talwar
9	40	Sana A.Mulla
10	48	Shubhangi Bhojepatil
11	51	Sneha Murabatte
12	53	Soumya Magadum
13	55	Shrushthi Halagadagi
14	57	Sukanya Singannavar
15	61	Varsha Kore

  
Head  
Department of Botany  
K.L.E's G. I. B. College, Nipani.







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Ph.: 08338-220116

## DEPARTMENT OF BOTANY

### SYLLABUS FOR CERTIFICATE COURSE IN FOOD PROCESSING AND NUTRITION 2020-21

UNIT I. Introduction and importance and scope of food and nutrition.	01 hrs
UNIT II . Food Science: Food, function, food groups, nutrient compositions.	06 hrs
UNIT III. Food chemistry: Carbohydrates, lipids, Proteins and their interaction.	
Food safety: Food spoilage, control of micro-organisms.	03 hrs
UNIT IV. Food Processing and Preservation:	05 hrs

**CONVENER: Prof. (Smt) S.B.Patil<sub>H.O.D.</sub>**

**RESOURCE PERSONS: Prof. Smt. S.B.Patil**

**Dr. Smt. S.P. Shiragave**

### EVALUATION METHOD:

- **Theory: One paper of one and half hrs duration for 30 marks**
- **Practical: 2 hours duration for 20 marks**

### REFERENCE:

- **Foods: Facts and Principles by N. Shakuntala Manay & M. Shadaksharaswamy. New Age International Publishers, New Delhi.**
- **Food Fundamentals by Williamsons M. John Willey & Sons. Inc. N.Y.**
- **Food Science by Patter M.N, AVI Publ.Co.N.Y**
- **Industrial Microbiology by Cassida L.T. wiley Eastern Ltd., London**



*Shiragave*  
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Commerce College, NIPANI.



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## DEPARTMENT OF BOTANY

### Certificate course in Food processing and Nutrition

#### Introduction:

Nutrition assumes a vital part of one's health and well being. A decent balanced diet keeps the body active and fit. The course prepares the candidates in the areas of nutrition, food, health and management. The candidates will get the knowledge and skills in food science, cooking, menu planning or preparation, innovations and technology in new healthy foods, special diets, catering and cafeteria. **Food processing and Nutrition certificate** course helps to provide students with a broad range of both fundamental principles and innovative practices in the subject areas, so they may be able to apply their knowledge proficiently in the food and health sectors and in related industries. The course is designed to enable the students to engage in direct services for older adults such as old age homes, residential and day care facilities, rehabilitation services in the government and private sector.

#### Programme Objective:

The goal of this certificate program is to provide an all-encompassing overview of current substance, nutrition problems and issues along with their effects on social, emotional, physical, and spiritual health.

The course focus on understanding nutritional science, creating awareness on nutrition, its role and benefits, interpretation of nutrition, people's nutrition needs, teaching others and implementation of the nutrition program.

**Course Duration:** Three Months (30 hrs theory + 10 hrs practical= 40 hours)





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## DEPARTMENT OF BOTANY

### TIME-TABLE

#### CERTIFICATE COURSE IN FOOD PROCESSING AND NUTRITION

On every Sunday two classes of one and half hour duration.

On alternate Sundays two hours practical

Day / Time	10 am-11.30am	11.30am-1.00pm	1.30pm-3.30pm
1 <sup>st</sup> Sunday	Theory	Theory	-
2 <sup>nd</sup> Sunday	Theory	Theory	Practical
3 <sup>rd</sup> Sunday	Theory	Theory	-
4 <sup>th</sup> Sunday	Theory	Theory	Practical

Effective from September 2021

  
HOD  
Head

Department of Botany  
K.L.E.'s G. I. B. College, Nipani.

  
PRINCIPAL

Principal,  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



K.L.E.Society's  
G.I.Bagewadi Arts, Science and Commerce College, Nipani  
Certificate Course Examination 2020-21  
**Food Processing and Nutrition**

**Time: 90 minutes**

**Marks : 30**

**All Questions carry equal marks  
Answer the following**

**15 X 2= 30**

1. Name the elements present in the proteins.
2. Name the bond with which amino acids are joined by.
3. Name the proteins found in the milk of the cow.
4. Which is mostly first class of proteins?
5. Where the proteins are synthesized?
6. Which proteins are called messenger protein?
7. Which of the proteins increases the rate of chemical reaction in the body?
8. Which protein helps to protect from infection and diseases in the body?
9. Which proteins are called transport proteins?
10. Name the term used for mode of obtaining food.
11. How much energy will we get from one gram of glucose?
12. Give the examples of Monosaccharides?
13. In which form the human body uses carbohydrates?
14. In which form the brain and RBC needs energy source?
15. What happens to the sodium and selenium in food Processing?





EXAMINATION

28  
20

Class : Bsc 2<sup>nd</sup> year

Subject : Botany

Roll No. : 31 (S1819531)

Date : 13/10/2021

Marks Scored :

Test :

Signature of Valuer

Signature of the Invigilator with date

1. Elements present in proteins

- Carbon
- Hydrogen
- Oxygen
- Nitrogen

2

2. Bond with which amino acids are joined

- Peptide bond

2

3. Proteins found in milk of the cow

- Alpha lactalbumin
- $\beta$ -lactoglobulin
- Bovine serum albumin
- Lactoferrin

2

4. First class of protein

Meat, eggs, fish and dairy products

2

5. Proteins are synthesized in Ribosomes

2

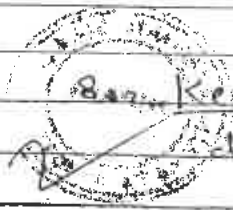
6. Hormones are called messenger protein

2

7. Enzymes are the proteins which increases the rate of chemical reaction

2





8. Keratin helps to protect from infection & disease in the body.

9. Transport proteins.

- Acid transport protein
- Cation " "
- Anion " "

10. Term used for mode of obtaining food.  
Nutrition

11. 4k/cal energy is released by 1g of glucose.

12. Examples for Monosaccharides.

Glucose, Fructose, galactose.

13. In the form of Glucose, carbohydrates are used by body.

14. In the form of Glucose, brain & RBC needs energy source.

15.





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COLLEGE NIPANI – 591 237 (Karnataka-India)

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“FOOD PROCESSING AND NUTRITION”

Conducted By

DEPARTMENT OF BOTANY

Certificate

This is to certify that Mr./Ms. Rukmini . B . Talwar of  
B.Sc. VI Semester has completed the Certificate Course in  
Food Processing and Nutrition satisfactorily and secured 'A' grade.

  
CO-ORDINATOR

  
PRINCIPAL



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Ph.: 08338-220116

## DEPARTMENT OF BOTANY

Ref: Ref: Ref.:E:/E/Cert/1pg

Date: 21.10.2021

### Report on Certificate course in Food Processing and Nutrition 2020-21

Name of the Department	Botany
Name of the Event Organized	Certificate course
Title of the Event	Food Processing And Nutrition
Date of the Event Organized	October 2021 (due to lockdown duration was reduced)
Name of the Convener	Smt. S.B.Patil and Dr. Smt. S.P.Shiragave
Participants	VI semester Botany Students
No. of Participants	15
Name of the Expert with Designation	Smt. S.B . Patil
Contact Number & Address of the Expert	G. I. Bagewadi College, Nipani
Objectives of the Event	To understand Nutritional Science
Outcome of the Event	Students learnt about Nutritional Science

HOD

Head

Department of Botany  
K.L.E's G. I. B. College, Nipani.

IQAC Coordinator

IQAC Co-ordinator

K.L.E's G. I. B. College, Nipani.

PRINCIPAL

Principal,

G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





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DEPARTMENT OF CHEMISTRY  
IQAC INITIATIVE

11 1

Date: 28/02/2020

## NOTICE

All the students of B.Sc. VI Semester PCM & CBZ are hereby informed to attend the inaugural function of the certificate course in Chemistry on "Soil and Water Analysis" on 29/02/2020 at 10.30 am in hall No.1.

Dr.P.D.Shiragave. Associate Professor, Department of Botany Devachnad College, Arjunnagar will inaugurate the course and deliver the lecturer on "Soil and Water Analysis."

Convenor

HOD

Head

Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



PRINCIPAL

G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2019-20**  
**ENROLLMENT FORM**

Mr./Miss.: Aayushi Kadam of Class : B.Sc-V Sem Date: 29/02/2020  
Roll No.: 01  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

B.L.D.D.  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2019-20**  
**ENROLLMENT FORM**

Mr./Miss.: Abhinandan Rayagunavar of Class : B.Sc-V Sem Date: 29/02/2020  
Roll No.: 02  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

B.L.D.D.  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2019-20**  
**ENROLLMENT FORM**

Mr./Miss.: Aishwarya mali of Class : B.Sc-V Sem Date: 29/02/2020  
Roll No.: \_\_\_\_\_  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

B.L.D.D.  
Staff Incharge



HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.





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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2019-20**  
ENROLLMENT FORM

Mr./Miss.: Aishwarya murabatte of Class : B.Sc. 5<sup>th</sup> Sem Date: 01/03/2020  
Roll No.: 04  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

B. J. W. D.  
Staff Incharge

HOD  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2019-20**  
ENROLLMENT FORM

Mr./Miss.: Aishwarya nalawade of Class : B.Sc. 5<sup>th</sup> Sem Date: 01/03/2020  
Roll No.: 05  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

B. J. W. D.  
Staff Incharge

HOD  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2019-20**  
ENROLLMENT FORM

Mr./Miss.: Aishwarya padga of Class : B.Sc. 5<sup>th</sup> Sem Date: 01/03/2020  
Roll No.: 06  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

B. J. W. D.  
Staff Incharge

HOD  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.





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**DEPARTMENT OF CHEMISTRY**  
**IQAC INITIATIVE**

**B Sc CC<sub>1</sub>**

**List of students (PCM) enrolled for certificate course in water analysis for the academic year 2019-20**

ROLL No	NAME		ROLL No	NAME	
1	AAYUSHI	KADAM	53	POOJA	CHILAMI
2	ABHINANDAN	RAYAGONNAVAR	54	POOJA	CHOUGULE
3	AISHWARYA	MALI	55	POOJA	JADHAV
4	AISHWARYA	MURABATTE	56	POOJA	MAGADUM
5	AISHWARYA	NALAWADE	57	POOJA	MAHAJAN
6	AISHWARYA	PADRE	58	POOJA	PATIL
7	AKASH	KAMBLE	59	POONAM	KHOT
8	AKASH	SHINDE	60	PRADNYA	BHIVASHE
9	AKSHAY	AWADE	61	PRAMEELA	SHETTY
10	AMARJEET	SHINDE	62	PRASAD	ARALIKATTI
11	AMRUTA	CHOUGULE	63	PRATIKSHA	PATIL
12	ANIKET	JADHAV	64	PRERANA	POTAJALE
13	ANUP	PATIL	65	PRIYANKA	KESARKAR
14	ARUN	KOTHIWALE	66	PRIYANKA	MAHAJAN
15	ARUNA	HEGADE	67	PRUTHVIRAJ	PATIL
16	ASHWINI	PATIL	68	PUSHPA	HONASHETTI
17	ASMITA	KAMBLE	69	RAHUL	HOSURI
18	BASAVARAJ	SANVAGANV	70	RAHUL	TASILDAR
19	BHAGYASHRI	BEDAKIHALE	71	RAJASHREE	KHOT
20	BHAGYASHRI	HAVALE	72	RAMAKRISHNA	GUDENNAVAR
21	CHAITALI	SADALAGE	73	ROHAN	DEVKATE
22	DARSHAN	HALAPPANAVAR	74	RUSHIKESH	GHATAGE
23	DEEPA	KEDARSHETTI	75	SAKSHI	HATAGINE
24	DEEPALI	CHOUGALE	76	SAMARTH	SHIRAGAVE
25	DEEPALI	PATIL	77	SARIKA	SWAMI
26	DILSHAD	MULLA	78	SAVITA	PATHADE
27	GANGADHAR	KONE	79	SHAMBALA	KUMBHAR
28	HEMANT	SASANE	80	SHEBARANI	NAGANNAVAR



*GH*  
**PRINCIPAL**  
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Commerce College, NIPANI.



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**DEPARTMENT OF CHEMISTRY**  
**IQAC INITIATIVE**

29	HRISHIKESH	DAVARI
30	JYOTI	BAGADE
31	JYOTI	PATIL
32	JYOTI	SARAPURE
33	KAVYA	MANE
34	KEERTI	KAMATE
35	KOMAL	BADAKE
36	KOMAL	MALI
37	KOMAL	VITE
38	LAXMI	KHOT
39	LAXMI	SANSUDDI
40	MAHESH	KAMAGOUDA
41	MALAPPA	DONE
42	MALLIKARJUN	CHANCHIPATIL
43	MANASI	BAVADEKAR
44	MANISH	PATIL
45	MANSOORA	MOMIN
46	MAYURI	BABAR
47	MAYURI	SADALGE
48	MRUNALI	SALUNKE
49	MUSKAN	SHERHAJI
50	NIKITA	NADAGE
51	NUTAN	SALUNKE
52	PARVATI	CHOUGULE

81	SHITAL	HUJARE
82	SHIVALEELA	HIREKODI
83	SHIVANI	PATIL
84	SHUBHANGI	KESARKAR
85	SHWETA	PATIL
86	SIDDHANT	SHINGADI
87	SONALI	BHARADE
88	SONALI	JAIN
89	SONALI	PATIL
90	SOUNDARYA	PATIL
91	SUJATA	KURANI
92	SUMATI	METRI
93	SUSHAMA	PATIL
94	SUSHANT	LANGOTE
95	SUSHANT	PATIL
96	SUSHMA	ANKALI
97	SWAPNA	GORAWADE
98	SWAPNIL	GAVADE
99	TANUJA	ADISERI
100	TEJSWINI	PATIL
101	UMMESALMA	MULLA
102	VIDHYA	JANGADE
103	VIDYASAGAR	CHOUGALE
104	VISHAL	MOKASHI



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**IQAC INITIATIVE**

**Department of Chemistry**

**Certificate Course in Water Analysis**

**Syllabus for Water Analysis**

**Theory**

**(16 Hours)**

**Chapter I**

**Introduction**

**(3 Hours)**

- 1.1 Environment and Environmental Pollution
- 1.2 Elements of environment
- 1.3 Types of pollution & pollutant
- 1.4 Water as natural resource

**Ref**

- 1) Global warming and environmental laws by H.V. Jadhav, Dr. S. H. Purohit.

**Chapter II Water Pollution**

**(3 Hours)**

- 2.1 Introduction water pollution & its definition
- 2.2 Physical and chemical properties of water
- 2.3 Classification of water pollutants
- 2.4 Sources of water pollution

**Ref.**

Water pollution by Dr. Anuradha Salpekar.

**Chapter III Waste Water Treatment**

**(4 Hours)**

- 3.1 Characteristics (parameters) of waste water
- 3.2 Treatment of water pollution
- 3.3 Preprimary treatment
- 3.4 Primary treatment
- 3.5 Secondary treatment
- 3.6 Tertiary treatment

**Ref**

- 1) Environmental pollution Analysis by S.M. Khopkar.

**Chapter IV Instrumentation for Water Analysis**

**(6 Hours)**

- 4.1 TDS rating for various types of water
- 4.2 Determination of pH and electrical conductivity of water sample
- 4.3 Estimation of Na and K present in water sample by using flame photometry
- 4.4 Estimation of chloride in water sample
- 4.5 Estimation of carbonate and bicarbonate present in water sample
- 4.6 Estimation of calcium and magnesium in water sample

**Ref**

- 1) Environmental pollution Analysis by S.M. Khopkar.





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**Practicals**

**(16 Hours)**

Sl. No.	Name of the experiment
1	To determine Total Alkalinity of Water
2	To determine the total hardness of the water sample
3	To determine pH and conductance of waste water
4	To determine Dissolve oxygen of waste water
5	To determine Chemical oxygen demand of waste water
6	To determine Acidity of Water
7	To determine TS, TSS, TDS of water
8	To determine salinity of the given water sample
9	To determination of pH, moisture and humidity of soil
10	To determine carbonate of soil
11	To determine gypsum of soil



  
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**DEPARTMENT OF CHEMISTRY**  
**IQAC INITIATIVE**

BSc CC1

**Certificate Course (Water Analysis)**

**STAFF LIST for Theory and Practicals**

- Dr. A. A.Kamble
- Smt. D. D. Bhoite
- Smt. R. R. Mane
- Shri. P.T. Narwade

**TIME TABLE**

DAY	THEORY ( 9am - 10am)	THEORY ( 2pm - 3pm)	PRACTICAL (3pm - 5pm)
01/01/2020	AAK	DDB	AAK
02/01/2020	DDB	AAK	RRM
03/01/2020	RRM	PTN	DDB
05/01/2020	RRM	AAK	DDB
06/01/2020	AAK	AAK	SBS
07/01/2020	RRM	DDB	AAK
08/01/2020	DDB	AAK	RRM
09/01/2020	AAK	RRM	SBS

  
Convenor

  
Head of Department  
**Head**  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani,

  
Principal  
**PRINCIPAL**  
G.I. Bagewadi Arts, Science & Commerce College, NIPANI.





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**DEPARTMENT OF CHEMISTRY**  
**IQAC INITIATIVE**

**Date: 02/03/2020**

***Certificate Course in Chemistry on "Water Analysis" 2019-20.***

The certificate course is part of practical skill based initiative programme to chemistry students to enrich their knowledge about water analysis and is compulsory for B.Sc. VI Semester PCM students. The water analysis is carried out at department of Botany, Devachand College Arjunagar under the guidance of Dr. P. D. Shiragave.


**Schedule for water analysis**

All B.Sc. VI semester PCM students are hereby informed to attend the practical and theory classes on water analysis at department of Botany, Devachand College Arjunagar from 11/03/2020 and 14/03/2020 with the staff Incharge as per following time table.

Day	Date	Students Roll. No.	Staff Incharge
Wednesday	04/03/2020	1 to 26	Dr. Atulkumar A. Kamble Shri. D. D. Bhoite
Thursday	05/03/2020	27 to 52	Dr. Atulkumar A. Kamble Prof. D. D. Bhoite
Friday	06/03/2020	53 to 78	Prof. Prashant Narawade Prof. R. R. Mane
Saturday	07/03/2020	79 to 104	Prof. Prashant Narawade Prof. R. R. Mane

The students are informed to be present in college at sharp 10:00 am. without fail.

  
Convener

  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
G.I. Bagewadi Arts, Science,  
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**DEPARTMENT OF CHEMISTRY**  
**IQAC INITIATIVE**

**BSc CC<sub>1</sub>**

**Marks obtained for certificate course in water analysis**

ROLL No	NAME		Marks Obtained (20 M)	ROLL No	NAME		Marks Obtained (20 M)
1	AAYUSHI	KADAM	18	53	POOJA	CHILAMI	18
2	ABHINANDAN	RAYAGONNAVAR	19	54	POOJA	CHOUGULE	19
3	AISHWARYA	MALI	17	55	POOJA	JADHAV	17
4	AISHWARYA	MURABATTE	19	56	POOJA	MAGADUM	19
5	AISHWARYA	NALAWADE	19	57	POOJA	MAHAJAN	19
6	AISHWARYA	PADRE	20	58	POOJA	PATIL	20
7	AKASH	KAMBLE	18	59	POONAM	KHOT	18
8	AKASH	SHINDE	17	60	PRADNYA	BHIVASHE	17
9	AKSHAY	AWADE	18	61	PRAMEELA	SHETTY	18
10	AMARJEET	SHINDE	29	62	PRASAD	ARALIKATTI	29
11	AMRUTA	CHOUGULE	18	63	PRATIKSHA	PATIL	18
12	ANIKET	JADHAV	17	64	PRERANA	POTAJALE	17
13	ANUP	PATIL	18	65	PRIYANKA	KESARKAR	18
14	ARUN	KOTHIWALE	29	66	PRIYANKA	MAHAJAN	29
15	ARUNA	HEGADE	18	67	PRUTHVIRAJ	PATIL	18
16	ASHWINI	PATIL	19	68	PUSHPA	HONASHETTI	18
17	ASMITA	KAMBLE	17	69	RAHUL	HOSURI	19
18	BASAVARAJ	SANVAGANV	19	70	RAHUL	TASILDAR	17
19	BHAGYASHRI	BEDAKIHALE	19	71	RAJASHREE	KHOT	19
20	BHAGYASHRI	HAVALE	20	72	RAMAKRISHN A	GUENNAVAR	19
21	CHAITALI	SADALAGE	18	73	ROHAN	DEVKATE	20
22	DARSHAN	HALAPPANAVAR	17	74	RUSHIKESH	GHATAGE	18
23	DEEPA	KEDARSHETTI	18	75	SAKSHI	HATAGINE	17
24	DEEPALI	CHOUGALE	29	76	SAMARTH	SHIRAGAVE	18
25	DEEPALI	PATIL	18	77	SARIKA	SWAMI	29
26	DILSHAD	MULLA	17	78	SAVITA	PATHADE	18
27	GANGADHAR	KONE	18	79	SHAMBALA	KUMBHAR	17
28	HEMANT	SASANE	29	80	SHEBARANI	NAGANNAVAR	18
29	HRISHIKESH	DAVARI	18	81	SHITAL	HUJARE	29





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DEPARTMENT OF CHEMISTRY

IQAC INITIATIVE

30	JYOTI	BAGADE	18	82	SHIVALEELA	HIREKODI	18
31	JYOTI	PATIL	19	83	SHIVANI	PATIL	29
32	JYOTI	SARAPURE	17	84	SHUBHANGI	KESARKAR	18
33	KAVYA	MANE	19	85	SHWETA	PATIL	17
34	KEERTI	KAMATE	19	86	SIDDHANT	SHINGADI	18
35	KOMAL	BADAKE	20	87	SONALI	BHARADE	29
36	KOMAL	MALI	18	88	SONALI	JAIN	18
37	KOMAL	VITE	17	89	SONALI	PATIL	18
38	LAXMI	KHOT	18	90	SOUNDARYA	PATIL	19
39	LAXMI	SANSUDDI	29	91	SUJATA	KURANI	17
40	MAHESH	KAMAGOUDA	18	92	SUMATI	METRI	19
41	MALAPPA	DONE	17	93	SUSHAMA	PATIL	19
42	MALLIKARJUN	CHANCHIPATIL	18	94	SUSHANT	LANGOTE	20
43	MANASI	BAVADEKAR	29	95	SUSHANT	PATIL	18
44	MANISH	PATIL	18	96	SUSHMA	ANKALI	17
45	MANSOORA	MOMIN	19	97	SWAPNA	GORAWADE	18
46	MAYURI	BABAR	17	98	SWAPNIL	GAVADE	29
47	MAYURI	SADALGE	19	99	TANUJA	ADISERI	18
48	MRUNALI	SALUNKE	19	100	TEJSWINI	PATIL	17
49	MUSKAN	SHEKHAI	20	101	UMMESALMA	MULLA	18
50	NIKITA	NADAGE	18	102	VIDHYA	JANGADE	29
51	NUTAN	SALUNKE	17	103	VIDYASAGAR	CHOUGALE	18
52	PARVATI	CHOUGULE	16	104	VISHAL	MOKASHI	29

Convener

Head of Department

Principal

Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

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**Certificate Course in Chemistry**

**Project Report on**

**WATER ANALYSIS**

**Submitted by**

**Mr/Miss** Chaitali Sodale

**Of B.Sc. VI sem Student**

**To,**

**THE DEPARTMENT OF CHEMISTRY**

*Chaitali*  
**Signature  
of Student**

*[Signature]*  
**Signature of  
Staff Incharge**

*[Signature]*  
**HOD  
Chemistry  
(Dr. A. S. Jagannathan)  
Head of Department of Chemistry  
KLE'S G. I. Bagewadi College, Nipani.**



*[Signature]*  
**PRINCIPAL  
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**DEPARTMENT OF CHEMISTRY**  
**2019-20**

**CERTIFICATE**

This is to certify by Mr/Miss Chaitali Badalage  
B.Sc.VI sem Student has satisfactorily completed the project in  
Chemistry prescribed by the Rani Channamma University, Belgavi  
for B.Sc VI Semester of this college in the year 2019-20.

Staff Incharge

Examiner

(Dr. A. S. JAGAMURE)  
Head of Department  
KLE'S G. I. Bagewadi College, Nipani.



PRINCIPAL  
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## DECLARATION

Mr/Miss Chaitali Sadalage of B.Sc VI semester studying in K.L.E's G. I. Bagewadi College, Nippani. Hereby declare that this project is genuine and original work of study prepared by me. It is based on data and information collected by me. To the best of my knowledge and belief, the matter presented in this report has not been copied from any report submitted to Rani Channamma University, Belgavi to Complete B.sc.

I hope this report will serve the purpose.

Place: Nippani

Signature

Date:

( Chaitali )

Name: Chaitali Sadalage

# INDEX

SL NO.	Content
1	Introduction
2	Composition of Water
3	Natural And Industrial Sources
4	Effects Of Hard Water
5	Types of Water
6	Water Analysis (Standards Used in Water Analysis)
7	Water and Soil Analysis Kit
8	Standard Parameter Values
9	Results & Discussion
10	Summary & conclusion
11	Reference
12	Acknowledgement

## Introduction:

Water is elixir of life. Every living organism needs water. Without water organisms cannot survive. Chemically water is made up of two moles of Hydrogen and One Mole of Oxygen. And purified water is very important for healthy life. So we need pure water. Pure water has not colour and no test.

- a) Above  $100^{\circ}$  C it occurs in the form of water vapour or steam.
- b) Below  $0^{\circ}$  C it forms ice
- c) Between  $0-100^{\circ}$  C it occurs in the form of liquid.

According to Kabisch and Hanjmerling (1982), our planet Earth contains 537.6 million sq. kms of water. Of which, only about 5.376 million sq. kms (approx) is available for human use.

Of the natural elements, water is considered to be of prime importance to the existence of man, plants and animals. It also plays an essential role in agriculture, industries, pisciculture, forestry and navigation.

Eutrophication of water, which in simplest terms, is pollution of water or increase in nutrients, results in the degradation of its quality accompanied luxuriant growth of algae or macrophytes. This is recognized as a major problem all around the globe. Weber (1907- in Zutshi, 1981) first introduced the concept of eutrophication to describe the nutrient contents determining the flora of German peat bogs. Nauman (1907) in Zutshi, 1981) used the term oligotrophic, mesotrophic and eutrophic, according to the concentration of phosphorus, nitrogen and calcium along with the associated density of phytoplankton population.

The need of water is increasing day by day invariably due to increasing population urbanization etc. Simultaneously the quality of standing water is degrading which affects the flora particularly the plankton. A glance at an earlier study reveals that plankton grow in water of particular trophic levels. Hence some

of these planktons may act as indicators of pollution. Some plankton is capable of tolerating pollution load.

The problem of pollution of water resources due to the discharge of wastes of domestic and industrial origin is a great threat on the international scale. Added to this is the surface run off from the heavily fertilized agricultural fields, which after reaching the water body cause pollution. Thus the reliable and economical methods to assess water pollution are needed. Any impairment caused by pollution has its effect on the aquatic biota. Therefore, a continuous monitoring of the aquatic biota reflects, the conditions existing in the aquatic environment and the data can be utilized for the biological monitoring of water pollution.

The problem of water pollution in India is very critical as India is a developed country among the developing and developing country among the developed. Though a lot of work has been done on the Indian waters, the extensive studies are few. The pioneer workers in the study of the Indian waters are Ganapati (1940), Singh (1960), Sreenivasan (1972) and Zafar (1964, 1967).

In India the total water available for use is about 1900 cubic meters. Of this, about 86% is in the form of rivers, streams, lakes and ponds (Kiran, 1992). Karnataka is one of the agriculturally and industrially leading states in India. Industrial effluents, treated or untreated, are dumped into the natural water bodies causing irreparable damage to the aquatic biota. Karnataka state is known for its large number of water bodies like small



## *Composition of water*

Everyone is very familiar with water. We observe it as rain and snow and can see it in the oceans, lakes, rivers, and streams. Although the water in our bodies is not as apparent, recognize that most of our weight is made up of water. In fact, the normal adult is made up of approximately 60% water. Thus, water is essential for life.

Water is made up of hydrogen ions ( $H^+$ ) linked to hydroxyl ions ( $OH^-$ ) to form  $H_2O$ . The molecular formula for water is  $H_2O$ . From this formula and the atomic weights for hydrogen and oxygen you can calculate that the molecular weight of water is approximately 18 grams.

*Note: The atomic weight of hydrogen (H) is 1 gram and the atomic weight of oxygen (O) is 16 grams.*

18 grams of water can also be referred to as being 1 mole of water. A mole of a substance (e.g. water), contains a particular number of molecules. That number is  $6.02 \times 10^{23}$  and is often referred to as Avogadro's number: named after Amedeo Avogadro, an Italian physicist.

Recognize that  $6.02 \times 10^{23}$  is in scientific notation and represents a huge number: 602 billion trillion. Written in standard form, this number is: 602,000,000,000,000,000,000,000. Thus, a mole of water which weighs 18 grams contains a huge number of water molecules.

18 grams or 1 mole of water occupies a volume of 18 milliliters. Therefore, 1000 milliliters (1 liter) of water contains 55.6 moles of water (1000 milliliters / 18 milliliters per mole)

Water molecules exist in the form of  $H_2O$ ; hydrogen ions ( $H^+$ ) linked to hydroxyl ions ( $OH^-$ ). A few of these water molecules split apart to create free  $H^+$  and  $OH^-$  ions. Pure, deionized water contains the same number of  $H^+$  ions and  $OH^-$  ions. One liter of pure, deionized water contains  $1 \times 10^{-7}$  moles of  $H^+$  and  $1 \times 10^{-7}$  moles of  $OH^-$  ions. This is

still a very large number of free hydrogen ions, namely:  $6.02 \times 10^{16}$  or 60,200,000,000,000,000.

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### Natural sources of water pollution

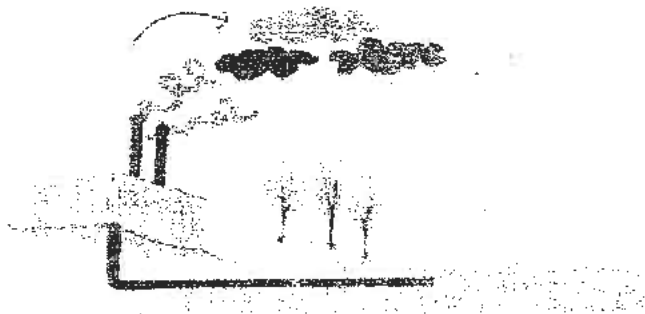
Natural processes and animals cause the following:

- **Organic Matter/Low D.O:** There are a lot of cypress swamps, floatant marshes, salt marsh wetlands, and animals, in the Barataria and Terrebonne Watersheds. The trees and marsh plants naturally produce a lot of organic matter from their leaves, stems, and roots. When these plant parts fall off or get washed into a waterbody by storm water they can lower dissolved oxygen.
- **Nutrients:** These are substances required by plants and animals to grow. The nutrients that have a large impact on the natural balance of waterways are nitrogen and phosphorus. These nutrients cause plankton to grow excessively. Plankton also die excessively and this puts a large amount of organic matter into the water which results in lower dissolved oxygen. Under natural situations nutrients are recycled from plant to animal, plankton to fish. Animals that live in water in large numbers, like ducks and geese, put manure directly into the water causing pollution.
- **Sediment:** In a natural condition, sediment in the water is usually related to large storm events, like hurricanes. Sometimes it is hard to tell whether the sediment is natural or from humans unless you look at aerial photographs and land use patterns.
- **Disease-Causing Organisms:** Animals that live on water in large numbers, such as ducks and geese, and put manure directly into the water cause pollution that can contaminate the water with disease-causing organisms.

## Industrial waste

*Industries cause huge water pollution with their activities. These come mainly from:*

*Sulphur - This is a non-metallic substance that is harmful to marine life.*



*Asbestos - This pollutant has cancer-causing properties. When inhaled, it can cause illnesses such as asbestosis and some types of cancer.*

*Lead and Mercury - These are metallic elements and can cause environmental and health problems for humans and animals. It is also poisonous. It is usually very hard to clean it up from the environment once it gets into it because it is non-biodegradable.*

*Nitrates & Phosphates - These are found in fertilizers, and are often washed from the soils to nearby water bodies. They can cause environment, which can be very problematic to marine environments.*

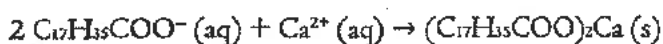
*Oils - Oils form a thick layer on the water surface because they do not dissolve in water. This can stop marine plants receiving enough light for photosynthesis. It is also harmful to fish and marine birds. A classic example is the BP oil spill in 2012 with killed thousands of animal species. Read more on this [HERE](#)*

### Oil Pollution by Oil Industries

Routine shipping, run-offs and dumping of oils on the ocean surfaces happen every day. Oil spills make up about 12% of the oil that enters the ocean. Oil spills cause major problems, and can be extremely harmful to local marine wildlife such as fish, birds and sea otters and other aquatic life. Because oil does not dissolve, it stays on the water surface and suffocates fish. Oil also gets caught in the feathers of seabirds, making it difficult for them to fly. Some animals die as a result.

## Effects of Hard Water:

With hard water, soap solutions form a white precipitate (soap scum) instead of producing lather, because the  $2^+$  ions destroy the surfactant properties of the soap by forming a solid precipitate (the soap scum). A major component of such scum is calcium stearate, which arises from sodium stearate, the main component of soap:



Hardness can thus be defined as the soap-consuming capacity of a water sample, or the capacity of precipitation of soap as a characteristic property of water that prevents the lathering of soap. Synthetic detergents do not form such scums.



A portion of the ancient Roman Eifel aqueduct in Germany. In service for about 180 years, the aqueduct had deposits of scale up to 20 cm thick along the walls.

Hard water also forms deposits that clog plumbing. These deposits, called "scale", are composed mainly of calcium carbonate ( $\text{CaCO}_3$ ), magnesium hydroxide ( $\text{Mg}(\text{OH})_2$ ), and calcium sulfate ( $\text{CaSO}_4$ ). Calcium and magnesium carbonates tend to be deposited as off-white solids on the inside surfaces of pipes and heat exchangers. This precipitation (formation of an insoluble solid) is principally caused by thermal decomposition of bicarbonate ions but also happens in cases where the carbonate ion is at saturation concentration. The resulting build-up of scale restricts the flow of water in pipes. In boilers, the deposits impair the flow of heat into water, reducing the heating efficiency and allowing the metal boiler components to overheat. In a pressurized system, this overheating can lead to failure of the boiler. The damage caused by calcium carbonate deposits varies on the crystalline form, for example, calcite or aragonite.

The presence of ions in an electrolyte, in this case, hard water, can also lead to galvanic corrosion, in which one metal will preferentially corrode when in contact with another type of metal, when both are in contact with an electrolyte. The softening of hard water by ion exchange does not increase its corrosivity *per se*. Similarly, where lead plumbing is in use, softened water does not substantially increase plumbo-solvency.

In swimming pools, hard water is manifested by a turbid, or cloudy (milky), appearance to the water. Calcium and magnesium hydroxides are both soluble in water. The solubility of the hydroxides of the alkaline-earth metals to which calcium and magnesium belong (group 2 of the periodic table) increases moving down the column. Aqueous solutions of these metal hydroxides absorb carbon dioxide from the air, forming the insoluble carbonates, giving rise to the turbidity. This often results from the pH being excessively high (pH > 7.6). Hence, a common solution to the problem is, while maintaining the chlorine concentration at the proper level, to lower the pH by the addition of hydrochloric acid, the optimum value being in the range of 7.2 to 7.6.

### Softening

It is often desirable to soften hard water. Most detergents contain ingredients that counteract the effects of hard water on the surfactants. For this reason, water softening is often unnecessary. Where softening is practised, it is often recommended to soften only the water sent to domestic hot water systems so as to prevent or delay inefficiencies and damage due to scale formation in water heaters. A common method for water softening involves the use of ion exchange resins, which replace ions like  $\text{Ca}^{2+}$  by twice the number of monocations such as sodium or potassium ions.

## HARD VS SOFT



Washing soda (sodium carbonate -  $\text{Na}_2\text{CO}_3$ ) is easily obtained and has long been used as a water softener for domestic laundry, in conjunction with the usual soap or detergent.

Hard water... is water that contains an appreciable quantity of dissolved minerals (like calcium and magnesium).

Soft water... is treated water in which the only ion is sodium.



As rainwater falls, it is naturally soft. However, as water makes its way through the ground and into our waterways, it picks up minerals like chalk, lime and mostly calcium and magnesium. Since hard water contains essential minerals, it is sometimes the preferred drinking water. Not only because of the health benefits, but also the flavor. On the other hand, soft water tastes salty and is sometimes not suitable for drinking. So why, then, do we soften our water?

When it boils down, the major difference between hard and soft water can best be seen while doing household chores. Hard water is to blame for dingy looking clothes, dishes with spots and residue, and bathtubs with lots of film and soap scum. Even hair washed in hard water may feel sticky and look dull. Hard water can take a toll on household appliances as well and use up more energy. The elements of hard water are to blame for all of these negative factors, as soap is less effective due to its reaction to the magnesium and calcium. The lather is not as rich and bubbly.

Chore-doers will love using soft water, as tasks can actually be performed more efficiently with it. Soap will lather better and items will be left cleaner. Glasses will sparkle and hair will look healthy. The shower curtain will be scum-free. Clothes and skin are left softer. In addition to time, this can also save money, as less soap and detergents will be used. Since appliances have to work less hard, soft water can also prolong the life of washing machines, dishwashers and water heaters. Energy bills are noticeably lower when in households with water softeners. In a time of rising energy costs, this is something to think about.

## WATER ANALYSIS

### Standards used in water analysis

#### conductivity

Electrical conductivity in water is a measure of the ion-facilitated electron flow through it. Water molecules dissociate into ions as a function of pH and temperature and result in a very predictable conductivity. Some gases, most notably carbon dioxide, readily dissolve in water and interact to form ions, which predictably affect conductivity as well as pH. For the purpose of this discussion, these ions and their resulting conductivity can be considered intrinsic to the water.

Water conductivity is also affected by the presence of extraneous ions. The extraneous ions used in modeling the conductivity specifications described below are the chloride and sodium ions. The conductivity of the ubiquitous chloride ion (at the theoretical endpoint concentration of 0.47 ppm when it was a required attribute test in USP XXII and earlier revisions) and the ammonium ion (at the limit of 0.3 ppm) represent a major portion of the allowed water impurity level. A balancing quantity of cations, such as sodium ions, is included in this allowed impurity level to maintain electroneutrality. Extraneous ions such as these may have significant impact on the water's chemical purity and suitability for use in pharmaceutical applications. The procedure described in the section Bulk Water is designed for measuring the conductivity of waters such as Purified Water, Water for Injection, Water for Hemodialysis, and the condensate of Pure Steam produced in bulk. For water packaged in bulk but manufactured elsewhere or for Sterile Purified Water, Sterile Water for Injection, Sterile Water for Inhalation, and Sterile Water for Irrigation, some additional conductivity tests may be required. Such tests are described in the section Packaged Water.

# WATER AND SOIL ANALYSIS KIT



## Procedure

### Total dissolved solids (TDS)

Total dissolved solids (TDS) is a measure of the combined content of all inorganic and organic substances contained in a liquid in molecular, ionized or micro-granular (colloidal sol) suspended form. Generally the operational definition is that the solids must be small enough to survive filtration through a filter with two-micrometer (nominal size, or smaller) pores. Total dissolved solids are normally discussed only for freshwater systems, as salinity includes some of the ions constituting the definition of TDS. The principal application of TDS is in the study of water quality for streams, rivers and lakes, although TDS is not generally considered a primary pollutant (e.g. it is not deemed to be associated with health effects) it is used as an indication of aesthetic characteristics of drinking water and as an aggregate indicator of the presence of a broad array of chemical contaminants.

The two principal methods of measuring total dissolved solids are gravimetric analysis and conductivity. Gravimetric methods are the most accurate and involve evaporating the liquid solvent and measuring the mass of residues left. This method is generally the best, although it is time-consuming. If inorganic salts comprise the great majority of TDS, gravimetric methods are appropriate.

Electrical conductivity of water is directly related to the concentration of dissolved ionized solids in the water. Ions from the dissolved solids in water create the ability for that water to conduct an electric current, which can be measured using a conventional conductivity meter or TDS meter. When correlated with laboratory TDS measurements, conductivity provides an approximate value for the TDS concentration, usually to within ten-percent accuracy.

The relationship of TDS and specific conductance of groundwater can be approximated by the following equation:

$$TDS = kEC$$

where TDS is expressed in mg/L and EC is the electrical conductivity in microsiemens per centimeter at 25 °C. The correlation factor  $k$  varies between 0.55 and 0.8.

## DETERMINATION OF pH OF A SOIL SOLUTION & WATER

Before taking the pH of soil solution or water put on the power of pH meter at least 15 to 20min earlier.

### PREPARATION OF SOIL SOLUTION

20gm of powdered dry soil is weighed accurately & placed in 50ml distilled water stirred & kept for 3 to 4 hours till soil settles completely.

#### Procedure

4, 7 & 9.2 pH 3 to 4 standard buffer solutions of 4, 7, 9.2 pH are prepared & their readings are taken by dipping the pH cell . then washed the cell & dipped in soil solution and once again reading recorded .

For water- 50ml of water is taken in a beaker & the cell is dipped in it & the reading recorded.

## DETERMINATION OF EC OF SOIL AND WATER

Before taking the EC reading of soil a water put on the power of conductivity meter.

Preparation of 0.1N KCl- Analytical grade KCl is used for the preparation of standard solution. 0.746g of KCl is weighed accurately & dissolved in 100ml distilled water to get 0.1N solution.

PROCEDURE- First take 50ml of distilled water in a beaker dip the cell in it & adjust the cell constant to 0.900

Then 50ml of 0.1N KCl is taken in a clean dry beaker & dipped the EC cell in it & the reading is recorded ,it should be around 1.413ds/m

For soil dip the cell in the supernant liquid of soil solution & record the reading . in case water 50ml of water is taken in a clean beaker & cell is dipped in it & the reading is recorded.



## Estimation of Calcium in the water

### Solution required –

- 1) Muroxide indicator
- 2) EDTA (0.01N) – 2gm in 1000ml
- 3) Sodium hydroxide (NaOH 10%) – 10gm in 100ml

### Procedure -

10ml of water sample solution is taken in a conical flask, Add 10ml of sodium hydroxide solution. Add pinch of muroxide indicator, then titrate against 0.01 EDTA till colour changes from pink to violet. [Note- since the colour change not spontaneous keep blank a std sample after adding indicator for noting the end point]

### Calculation –

$$\text{Calcium (meq/liter)} = \frac{\text{TV}_2 * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

$$\text{Magnesium (meq/liter)} = \frac{(\text{TV}_1 - \text{TV}_2) * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

where,

TV<sub>1</sub> – Titrating value for calcium and magnesium

TV<sub>2</sub> – Titrating value for calcium

## Estimation of Calcium and magnesium in the water

### Solution required –

- 1) Buffer solution – 67gm Ammonium chloride, and add 570ml ammonia and make up to 1 ltr
- 2) EDTA (0.01N) – 2gm in 1000ml
- 3) EBT indicator – Dissolve 0.5g of EBT in 100ml of 95% methanol

### Procedure -

10ml of water sample solution is taken in a conical flask, add 10ml of buffer solution to attain pH of 10. Then add 10drops EBT indicator and titrate against 0.01N EDTA Till colour changes from pink to blue.

### Calculation --

$$\text{Calcium (meq/liter)} = \frac{\text{TV}_2 * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

$$\text{Magnesium (meq/liter)} = \frac{(\text{TV}_1 - \text{TV}_2) * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

where,

TV<sub>1</sub> – Titer value for calcium and magnesium

TV<sub>2</sub> – Titer value for calcium

## Estimation of Carbonate and Bicarbonate in the water

### Solution required -

- 1) 0.1N H<sub>2</sub>SO<sub>4</sub> - 3ml (conc) H<sub>2</sub>SO<sub>4</sub> dissolved in 1 liter D.W.
- 2) Phenolphthalein, Methyl orange indicator

### Procedure -

10ml of sample water is mixed with 25ml distilled water placed in a conical flask add 1-3 drops of phenolphthalein indicator. If red colour appears titrate against standard 0.1N H<sub>2</sub>SO<sub>4</sub> till red colour disappears (TV<sub>1</sub>) Then add 2-3 drops of methyl orange indicator to the colourless solution or add to original solution. If red colour not noticed, Again titrate with 0.1 N H<sub>2</sub>SO<sub>4</sub> till yellow colour changes to rose red (TV<sub>2</sub>)

### Calculation -

$$\text{Carbonate (meq/liter)} = \frac{2 * TV_1 * N \text{ of } H_2SO_4 * 1000}{\text{Ml of water sample}}$$

$$\text{Bicarbonate (meq/liter)} = \frac{[TV_2 - (2 * TV_1)] * N \text{ of } H_2SO_4 * 1000}{\text{Ml of water sample}}$$

## Estimation of Chloride in the water

### Solution required –

- 1) K<sub>2</sub>CrO<sub>4</sub> indicator – 5gm K<sub>2</sub>CrO<sub>4</sub> in 100ml distilled water
- 2) AgNO<sub>3</sub> (0.1N) – 16.99g AgNO<sub>3</sub> dissolved in 1 ltr distilled water standardise with 0.01N NaCl (Amber coloured bottle)

### Procedure -

5ml of sample solution is taken in a conical flask diluted by adding 25ml D.W. 5-6 drops K<sub>2</sub>CrO<sub>4</sub> indicator is added and titrated with std AgNO<sub>3</sub> till brick red colour appears.

### Calculation –

$$\text{Chloride (meq/liter)} = \frac{\text{TV} * \text{N of AgNO}_3 * 1000}{\text{Ml of water sample}}$$

**ಶೈಲ ಮಿತ್ರ ಕೃಷಿ ಅಭಿವೃದ್ಧಿ ಸಂಘ (ಐ) ಸಂಕೇಶ್ವರ**

ಎಮ್. ಪಿ. ಸೋನಾಯಕ ಆಯುಧ ರೋಡ,

ಸಂಕೇಶ್ವರ ಹಾ : ಹುಕ್ಕೇರಿ ಜಿ : ಬೆಳಗಾವಿ

**ನೀರು ಪರಿಶೋಧನೆಯ ವಿವರ**

ಹೆಸರು : \_\_\_\_\_

ಕ್ರ. ಸಂ. \_\_\_\_\_

ಊರು : \_\_\_\_\_ ಹಾ : \_\_\_\_\_ ಜಿ : \_\_\_\_\_

ಬಾವಿ / ಕೊಳವೆ ಬಾವಿ / ನದಿ \_\_\_\_\_

ದಿನಾಂಕ : / / 20

ಪರಿಶೋಧನಾ ಪರಿಮಾಣ	ಪ್ರಮಾಣ / ಮಿ.ಮಿ	ನಿರೀಕ್ಷಣೆ
1 ಪಿ. ಎಚ್ (PH)	6.5 - 7.5	
2 ಕ್ಷಾರ (EC ds/cm)	0.25-0.75	
3 ಕೊಠ್ಠೆ, ಮಿ. ಇಕ್ಕಿಲಿ	0 - 5.0	
4 ಕ್ಯಾಲಿಯಮ್ ಇಕ್ಕಿಲಿ	0 - 5.0	
5 ಮ್ಯಾಗ್ನೀಷಿಯಮ್ ಇಕ್ಕಿಲಿ	0 - 2.5	
6 ಸೋಡಿಯಮ್ ಇಕ್ಕಿಲಿ	0 - 5.0	
7 ಫೋಸ್ಫೋರಸ್ ಇಕ್ಕಿಲಿ	0 - 4.0	
8 ಕಾರ್ಬೋನೇಟ್ ಇಕ್ಕಿಲಿ	ಇಲ್ಲ	
9 ಟೈ ಕಾರ್ಬೋನೇಟ್ ಇಕ್ಕಿಲಿ	0 - 1.5	
10 ಸೋಡಿಯಂ ಅಪ್ರೋಪ್ರೇಷನ್ ರೇಷೊ	10 ಕ್ಕಿಂತ ಕಡಿಮೆ	
11 ನೀರಿನ ಪ್ರಕಾರ		
12 ಇತರೆ		

ನೀರಿನ ಬಗ್ಗೆ ಸಲಹೆ :- ನೀರಿನ ಕ್ಷಾರದ ಪ್ರಮಾಣ ಯೋಗ್ಯ / ಮಧ್ಯಮ / ಹೆಚ್ಚು ಇದೆ. ಬೆಳೆಗಲಿಗೆ ಉಪಯೋಗಿಸಲು ಯೋಗ್ಯ / ಅಯೋಗ್ಯವಾಗಿದೆ.

ಮುಖ್ಯ ಪರಿಶೋಧಕ



## RESULTS AND DISCUSSION:

The physicochemical parameters of the well of Benadi and borewell of Khadaklat been given in the table. Conductivity measures the electrical current, which is proportional to Lie mineral matter present in water. Conductivity is thus measurement of total dissolved solids [TDS] in water. Conductivity is represent in umhos/cm in water analysis. It is a very important parameter for determining the water quality for drinking and agricultural purpose. Conductivity value in water samples in borewell is 940 and well is 1180.

Dissolved *oxygen* is one of the most important factors in water quality assessment and reflects the physical and biological process prevailing in natural water. In present investigation the dissolved oxygen concentration higher in well water and lower in the borewell water . this may be due to the decomposition of organic matter was an impottant factors in consumption of dissolved oxygen.the presence of chlorides in natural water is mainly due to the dissolution of salts deposits. The maximum chloride concentration in borewell water and less in well.

Calcium is one of the important components of the plant tissues and regulates many physiological function in organism . in present work the minimum calcium in well and maximum in borewell.

Magnesium is sn essential constituent of chlorophyllous plants, as it forms the nucleolus of the prophyrin ring of the chlorophyll molecule in the present work maximum in well and less in borewell. It shows direct relation with the dissolved organic matter.

Nitrates is the most oxidized form of nitrogen which is the important plant material. The nitrate content of the water sample varies i.e. in more in borewell water and less in well.

Dissolved solids , which are also refered to as total dissolved solids are various kinds of mineral substances present in water. The concentration of dissolved solids in water gives

an idea about suitability of this water for various uses including that of potable water. TDS are more in well and less in borewell.

BOD is of great importance In water quality assessment, seasonal variations in the values of bio chemical oxygen demand appears to be a function of changes in the degree of dilution, quantity of organic matter and the activity of microorganism carrying out decomposition of carbonous and nitrogenous wastes . it is more in borewell water and less in well water. So, before using borewell water one should analyse the water and then use.

## SUMMARY AND CONCLUSION

All phytoplankton groups are positively inter-co-related with each other. By observing the results one may conclude that the Bore well water contains high salts which directly effect the human health. So before using borewell water one should analyse the water and then use.

In present study, conductivity values of well is 1180 and borewell is 940. Dissolved oxygen concentration in borewell is 6.80 and maximum in well is 7.4. The total solids in the well is 708 and that of borewell is 573. Total alkalinity of well is 340 and borewell is 420. it is recotded low alkalinity in well and high in borewell due to dilution effect of rainfall. The total hardness is the total soluble magnesium salt present in the well is 199 and for borewell is 124 and for calcium in well is 200 and that of borewell is 216. Total alkalinity as  $\text{CaCO}_3$  for well is 340 and that of borewell is 420. The total hardness of chloride of borewell is 250 and that of well is 225. even that of nitrate in well is 10.87 and borewell is 11.26. The BOD of well is 0.60 and borewell is 0.70.

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Our teachers of chemistry Department were well co-operative and gave us more relevant information about "WATER ANALYSIS". And special thanks to, Dr M.C.Hosur Chief Administrator and Scientific Advisor, Rait Mitra Krishi abhivrudi sangha, Sankeshwar. Who guided us to know more about the analysis and to conduct the practical. Lastly it was a very unforgettable and highly memorable study tour to all of us.







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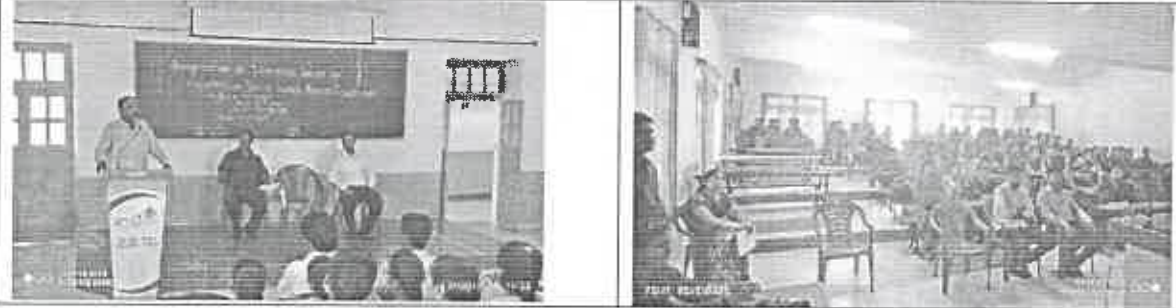
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**IQAC INITIATIVE**

**Department of Chemistry**

**REPORT ON:- Certificate Course in Chemistry on "Water Analysis"**

Name of the Department	Chemistry					
Name of the Event Organized	Guest Lecture					
Title of the Event	Water analysis					
Date of the Event Organized	29/02/2020					
Name of the Convener	Dr. A. A. Kamble					
Participants	173					
No. of Participants	Total	173	Teachers	10	Students	163
Name of the Expert with Designation	Dr. P. D. Shiragave, Associate Professor,					
Contact Number & Address of the Expert	Department of Botany Devachnad College, Arjunagar					
Objectives of the Event	1. To understand the different types of water. 2. To make students to understand the different parameters of water analysis.					
Outcome of the Event	It enhances the skill of soil analysis and can become self-entrepreneurship.					
Photo Gallery						

  
 IQAC Coordinator

**Co-ordinator IQAC**  
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 Department of Chemistry  
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 Principal  
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Date: 29/02/2020

***Report on: Certificate Course in Chemistry on "Soil and Water Analysis." 2019-20***

Certificate Course in Chemistry on "Soil and Water Analysis" 2019-20 was inaugurated by Dr. P. D. Shiragave, Associated Professor in Botany, Devachand College Arjunnagar, (Maharashtra) on 29<sup>th</sup> February 2020. Dr. A. S. Jaganure HOD Chemistry welcomed the august gathering and introduced the chief guest. Dr. S. B. Solabannavar was presided over the function.

Dr. P. D. Shiragave, addressed the students regarding importance of soil and water analysis for B.Sc.VI semester students (PCM & CBZ). He further gave an idea about Micro nutrients present in soil, and effect of excessive use of fertilizers by farmers which in turn spoil the fertility of land. He highlighted the importance of pH for both water and soil, use of fertiliser Ammonium Sulphate at optimum pH to get better yield otherwise it will be poison for soil. He added the use of parameters to distinguish between portable water and ordinary water during water analysis which includes acidity, alkalinity, salinity and turbidity and the use of instruments like pH meter, Flame photometry, Potentiometer, Spectrophotometers etc. He said that the certificate course may help the students to create new skills for future and make them to become self-dependent by establishing their own laboratory as an entrepreneur in chemical industries. Dr. Atulkumar A. Kamble concluded the function with vote of thanks. Miss. Soundarya Patil and Miss. Neha Patil compeered the function.

In all 155 students which includes 95 girls attended the function and benefitted to enhance their skills for soil and water analysis.

  
Convener

  
HOD  
Head  
Department of Chemistry  
K.L.E's G. I. R. 2019-2020 Nipani.

  
Principal  
PRINCIPAL  
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**Inauguration of Certificate Course**

**Speech by Chief Guest**



  
Convener  
**Head**  
**Department of Chemistry**  
K.L.E. Society's G.I. Bagewadi Arts, Science & Commerce College, Nipani

*Prave*  
~~Head~~  
Convener.

  
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II 2

Date: 28/02/2020

## NOTICE

All the students of B.Sc. VI Semester PCM & CBZ are hereby informed to attend the inaugural function of the certificate course in Chemistry on "Soil and Water Analysis" on 29/02/2020 at 10.30 am in hall No.1.

Dr.P.D.Shiragave. Associate Professor, Department of Botany Devachnad College, Arjunnagar will inaugurate the course and deliver the lecturer on "Soil and Water Analysis."

  
Convenor

  
HOD  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



  
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Department of Chemistry  
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**ENROLLMENT FORM**

Mr./Miss.: Abhinandan Kolhapure of Class : B.Sc 4<sup>th</sup> Sem Date: 29/02/2020  
Roll No.: 105  
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B/BDO  
Staff Incharge

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Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

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Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2019-20**  
**ENROLLMENT FORM**

Mr./Miss.: Akshay Magadeam of Class : B.Sc. 2<sup>nd</sup> Sem Date: 01/03/2020  
Roll No.: 109  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Bhudo  
Staff Incharge

Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.



K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237  
Accredited at 'A' level by NAAC with CGPA 3.35  
(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)  
Website: [www.klegibnnpn.org.in](http://www.klegibnnpn.org.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2019-20**  
**ENROLLMENT FORM**

Mr./Miss.: Amil Bhingare of Class : B.Sc. 2<sup>nd</sup> Sem Date: 01/03/2020  
Roll No.: 110  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Bhudo  
Staff Incharge

Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.







**K.L.E. Society's**  
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Accredited at 'A' level by NAAC with CGPA-3.35  
**DEPARTMENT OF CHEMISTRY**  
**IQAC INITIATIVE**

BSc CC<sub>2</sub>

**List of students (CBZ) enrolled for certificate course in soil analysis for the academic year 2019-20**

ROLL No	NAME		ROLL No	NAME	
105	ABHINANDAN	KOLHAPURE	135	PRATIKSHA	SURYAVANSHI
106	ABHISHEK	MAGADUM	136	PRAVEEN	CHOUGALA
107	AISHWARYA	KILLEDAR	137	PRITHVIRAJ	NARAYANKAR
108	AISHWARYA	PUNDE	138	PRIYANKA	PALKAR
109	AKSHAY	MAGADUM	139	PUSHPADANT	UPADHYE
110	ANIL	BHINGARE	140	RACHNA	TANDALE
111	CHETANA	BELAVI	141	RAMIZ RAZA	MAKANDAR
112	CHINMAYI	INDI	142	ROHINI	THARAPATTI
113	DAKSHA	PATEL	143	RUTUJA	PATIL
114	GURLNATH	AREKAR	144	SABEEL	MAKANDAR
115	JANHAVI	BHATALE	145	SACHIN	BADKAR
116	KAJAL	BHOITE	146	SAMIKSHA	GEBISE
117	KAMARTAJ	KHANAPURE	147	SANA	SOUDAGAR
118	KASHINATH	SAVANTRE	148	SANIYA	AWATE
119	KENCHAPPA	NASALAPURE	149	SANJEEVINI	HASURE
120	MADHURI	BHIVASE	150	SANKET	JADHAV
121	MASUM	PANWALE	151	SANTOSH	ADAKE
122	MEENAKSHI	GURAV	152	SAYYAM	HAVALE
123	MEGHA	SUMBAD	153	SEEMA	DATAWADE
124	NANDINI	SHIRAGAVE	154	SHAHIDA	DESAI
125	NEHA	KADAKANE	155	SHUBHAM	KODANE
126	NEHA	PATIL	156	SOUJANYA	KAMATE
127	NIKHITA	HAVALE	157	SOURABH	PUJARI
128	NIKITA	MAGADUM	158	SUMIT	CHOUUGULE
129	PARSHWAJEET	PATIL	159	SWATI	TAWADARE
130	PAVAN	PAYAMALLE	160	UMESH	PUJARI
131	POOJA	KESARKAR	161	YOGESH	PUJARI
132	PRAJAKTA	BACHANE	162	ZAINABI	LANGOTI
133	PRAJAKTA	PATIL	163	ROHAN	MANJAREKAR
134	PRANJALI	POTADAR			

*Bddn*  
Convener

*[Signature]*  
Head of Department  
Head.  
Department of Chemistry  
G.I. Bagewadi Arts, Science & Commerce College, NIPANI.

*[Signature]*  
Principal  
PRINCIPAL  
G.I. Bagewadi Arts, Science & Commerce College, NIPANI.





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### **IQAC INITIATIVE**

#### **Department of Chemistry Certificate Course in Soil Analysis Syllabus for Soil Analysis**

**Lectures to be delivered: 16 Hours**

**Max. Marks: 40**

**Periods per Month: 04**

#### **Unit – I: Introduction**

**4 Hours**

Definition of Soil, Concept of Lithosphere, Soil as a natural body, Soil Components: Air, Water, inorganic and organic solids, Formation of Soil, Types of Soils & Basic Concepts.

#### **Unit – II: Properties of Soil**

**8 Hours**

Introduction to properties of Soil:

##### **A) Physical Properties:-**

Soil Separates, Texture, Aggregation and Structure, Temperature, Colour, Properties of Soil Mixture, Pore Space, Bulk Density, Particle Density, Aeration and Drainage, Compaction, Surface area, Soil water Relationships.

##### **B) Chemical Properties:-**

Morphology of Colloids, Chemistry of Clays, Ionic Exchange, Acidity, Alkalinity, pH, Salinity, Reactions in Liming and Acidification.

##### **C) Biological Properties:-**

Soil Organic Matter, C: N Relationships, N-Transformation, Soil Organisms, Sulfur Transformation.

#### **Unit – III: Soil Profile & Classification**

**4 Hours**

Soil profile, Soil forming factors, soil survey methods, soil survey reports, Soil distribution, classification system.

#### **Books Recommended:**

1. Soils and soil fertility, Troch, F.R. And Thompson, L.M. Oxford Press.
2. Fundamentals of soil science, foth, H.D. Wiley Books.
3. Soil Science and Management, Plaster, Edward J., Delmar Publishers.
4. Principles of Soil Chemistry (2Wed.) Marcel Dekker Inc., New York.
5. Handbook of Agricultural Sciences, S.S.Singh, P.Gupta, A.k.Gupta, Kalyani Publication.





K.L.E. Society's  
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## **PRACTICALS**

### **Soil Analysis & Testing Methods**

**No. of practicals: 12**


**Max Marks : 40**

1. Visit to Soil Testing Laboratory & Report writing.
2. Visit to Farmers Fields for Collection of Soil Samples, identification of nutrient deficiency Symptoms in Crop.
3. Preparation of Various Chemical reagents required for soil testing.
4. Processing of Soil Sampling for analysis
5. Determination of pH of soil sample using pH meter
6. Determination of Electrical Conductivity of Soil Sample using Electrical. Conductivity meter.
7. Determination of Organic Carbon by wet Oxidation method.
8. Determination of available Nitrogen from Soil Sample.
9. Determination of available phosphorus from soil sample.
10. Determination of available Potassium from soil sample.
11. Determination of Calcium Carbonate from soil sample.
12. Determination of micronutrients from soil sample.

#### **Books Recommended:**

1. Introduction to soil laboratory manual -J.J.Harsett stipes.
2. Introduction to soil science laboratory manual, Palmer and troch - Iowa state.



  
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Commerce College, NIPANI.



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## Certificate Course in Soil Analysis Syllabus Scheme

Sr. No.	Paper No.	Total workload	Max. Marks	Internal marks	Total marks
1.	Paper – Theory	16 Hours	40	10	50
2.	Paper - Practical	16 Hours	40	10	50
Total Marks					100





**K.L.E. Society's**  
**G.I.BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI- 591237**  
Accredited at 'A' level by NAAC with CGPA-3.35  
**DEPARTMENT OF CHEMISTRY**  
**IQAC INITIATIVE**

**Date: 02/03/2020**

***Certificate Course in Chemistry on "Soil Analysis" 2019-20.***

The certificate course is part of practical skill based initiative programme to chemistry students to enrich their knowledge about soil analysis and is compulsory for B.Sc. VI Semester CBZ students. The soil analysis is carried out at department of Botany, Devachand College Arjunnagar under the guidance of Dr. P. D. Shiragave.

**Schedule for soil analysis**

All B.Sc. VI semester CBZ students are hereby informed to attend the practical and theory classes on soil analysis at department of Botany, Devachand College Arjunnagar from 09/03/2020 and 10/03/2020 with the staff Incharge as per following time table.

Day	Date	Students Roll. No.	Staff Incharge
Tuesday	10/03/2020	105 to134	Dr. Atulkumar A. Kamble Prof. G. B. Kumbar
Wednesday	11/03/2020	134 to163	Dr. Atulkumar A. Kamble Prof. D. D. Pohoite

The students are informed to be present in college at sharp 10:00 am. without fail.

Convener

*B. B. B.*

*[Signature]*  
HOD

**Head**  
**Department of Chemistry**  
**K.L.E's G. I. B. College, Nipani.**



*[Signature]*  
Principal  
PRINCIPAL

G.I. Bagewadi Arts, Science,  
Commerce & PG College, Nipani



BSc CC<sub>2</sub>

**Certificate Course (Soil Analysis)**

**STAFF LIST for Theory and Practicals**

- Dr. A. S. Jagannure
- Dr. S. B. Solabannavar
- Prof. G. B. Kumbar
- Dr. A. A. Kamble

**TIME TABLE**

DAY	THEORY ( 9am – 10am)	THEORY ( 2pm – 3pm)	PRACTICAL (3pm – 5pm)
01/01/2020	AAK	ASJ	AAK
02/01/2020	GBK	SBS	GBK
03/01/2020	SBS	GBK	SBS
05/01/2020	ASJ	AAK	ASJ
06/01/2020	AAK	ASJ	AAK
07/01/2020	GBK	SBS	GBK
08/01/2020	SBS	GBK	SBS
09/01/2020	ASJ	AAK	ASJ
		Practical test paper	

*B.L.D.D*  
Convenor

*[Signature]*  
Head of Department  
**Head**  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

*[Signature]*  
Principal  
**PRINCIPAL**  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.







**K.L.E. Society's**  
**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI- 591237**  
Accredited at 'A' level by NAAC with CGPA-3.35  
**DEPARTMENT OF CHEMISTRY**  
**IQAC INITIATIVE**

**BSc CC<sub>2</sub>**

**Marks obtained for certificate course in soil analysis**

ROLL No	NAME		Marks obtained (20 M)	ROLL No	NAME		Marks obtained (20M)
105	ABHINANDAN	KOLHAPURE	18	135	PRATIKSHA	SURYAVANSHI	20
106	ABHISHEK	MAGADUM	19	136	PRAVEEN	CHOUGALA	18
107	AISHWARYA	KILLEDAR	20	137	PRITHVIRAJ	NARAYANKAR	20
108	AISHWARYA	PUNDE	18	138	PRIYANKA	PALIKAR	17
109	AKSHAY	MAGADUM	20	139	PUSHPADANT	UPADHYE	20
110	ANIL	BHONGARE	17	140	RACHNA	TANDALE	18
111	CHELANA	BELAVI	20	141	RAMIZ RAZA	MAKANDAR	19
112	CHINMAYI	INDI	18	142	ROHINI	THARAPATTI	20
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123	MEGHA	SUMBAD	20	153	SEEMA	DATAWADE	20
124	NANDINI	SHRAGAVE	18	154	SHAHIDA	DESAI	18
125	NEHA	KADAKANE	20	155	SHUBHAM	KODANE	19
126	NEHA	PATIL	17	156	SOUJANYA	KAMATE	20
127	NIKHITA	HAVALE	20	157	SOURABH	PUJARI	18
128	NIKITA	MAGADUM	18	158	SUMIT	CHOUGULE	19
129	PARSHWAJEET	PATIL	19	159	SWATI	TAWADARE	20
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131	POOJA	KESARKAR	18	161	YOGESH	PUJARI	20
132	PRAJAKTA	BACHANE	20	162	ZAINABI	LANGOTI	17
133	PRAJAKTA	PATIL	18	163	ROHAN	MANJAREKAR	20
134	PRANJALI	POTADAR	19				

  
Convenor

  
Head of Department  
Department of Chemistry  
K.L.E's G. I. R. College, Nipani.

  
Principal  
PRINCIPAL  
G.I. Bagewadi Arts, Science & Commerce College, NIPANI.



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**COLLEGE NIPANI-591237**  
**(Affiliated to Rani Channamma University, Belagavi)**



**DEPARTMENT OF CHEMISTRY**  
**2019-20**

**CERTIFICATE**

This is to certify by Mr/Miss Sumit S Chougale  
B.Sc.VI sem Student has satisfactorily completed the project in  
Chemistry prescribed by the Rani Channamma University, Belgavi  
for B.Sc VI Semester of this college in the year 2019-20.

\_\_\_\_\_  
Staff Incharge

MBR  
\_\_\_\_\_  
Examiner

MBR  
\_\_\_\_\_  
Head of Department  
Head  
Department of Chemistry  
KLE G. I. B. College, Nipani.



[Signature]  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

KLE SOCIETY'S  
**G.I BAGEWADI ARTS, SCIENCE AND COMMERCE and PG**  
COLLEGE  
(Affiliated to KLE SOCIETY'S UNIVERSITY, Belagavi)



M/...

*[Handwritten Signature]*  
Signature  
of Student

*[Faint text]*  
KLE SOCIETY'S  
UNIVERSITY  
Belagavi

**KLE SOCIETY S**  
**G.I BAGEWADI ARTS, SCIENCE AND COMMERCE and PG**  
**COLLEGENIPANI-591237**  
**(Affiliated to Rani Channamma University, Belagavi)**



**Certificate Course in Chemistry**

**Project Report on**

**SOIL ANALYSIS**

**Submitted by**

**Mr/Miss-** Savitri S Chougale


**Of B.Sc. VI sem Student**

**To,**

**THE DEPARTMENT OF CHEMISTRY**

  
**Signature  
of Student**

  
**Signature of  
Staff Incharge**

  
**HOD  
Chemistry  
Head**

**Department of Chemistry  
K.L.E's G. I. B. College, Nipani.**

  
**PRINCIPAL**

**G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI**



## DECLARATION

Mr/Miss Sarmit S Chougale, of B.Sc VI semester studying in K.L.E's G. I. Bagewadi College, Nippani. Hereby declare that this project is genuine and original work of study prepared by me. It is based on data and information collected by me. To the best of my knowledge and belief, the matter presented in this report has not been copied from any report submitted to Rani Channamma University, Belgavi to Complete B.sc.

I hope this report will serve the purpose.

Place: Nippani

  
Signature

Date: 29-09-2020

( \_\_\_\_\_ )

Name: \_\_\_\_\_

# INDEX

SL NO.	Content
1	Introduction
2	Types of soil
3	Composition of soil
4	Estimation of Carbon
5	Estimation of $\text{CaCO}_3$
6	Estimation of sodium and potassium
7	Determination of pH of soil and water
8	Determination of EC of soil and water
9	Estimation of phosphorous by spectrophotometer
10	Estimation of nitrogen by kjeldahl's method
11	Estimation of micronutrients from atomic absorption spectrophotometer
12	Results & Discussion
13	Summary & conclusion
14	Acknowledgement



# Soil analysis

## Introduction

To design a good sampling plan for soil and water testing, one needs to consider the basic facts related to soil formation and water cycling. For both soil and water, we are dealing with complex systems, where biological, chemical and physical factors all interact. Also, soil and water are interconnected, and farming practices affect both soil and water quality. A brief explanation of some of these basic factors related to soils will be covered in this section.

**Soil Formation and Conservation** The process of soil formation has been going on since the surface of the earth cooled. The factors that determine what the soil looks like now include; 1) parent material (the rock from which it formed), 2) time (is this a "young" soil or an "old" soil), 3) climate, 4) topography, and 5) biological processes. The parent material, or rock, will often determine the basic chemistry of the soil. Soils formed from limestone for example, will have a native, or natural pH that is higher than soil formed from other materials. If one looks at a soil profile, or cross section, you will find the parent material, or rock in the lower layers. In Kansas, most of our soils have been formed from limestone, shale, or sandstone. Some soils have been formed from an original soil that was formed in another region, and then moved. Soil deposited by water, for example a river, are called alluvium. Wind deposited soils, common in parts of the great plains, are called loess. The time that a soil has had to form will often affect the amount of layering, or differentiation from the top of the profile to the bottom. An older soil will have a "topsoil" layer, that will be darker, and higher in organic matter (from centuries of contributed plant and animal matter), and the lower layers will be progressively lighter in color, and generally lower in organic matter and nutrient content. An example of a "young" soil would be an area where a river has recently deposited soil, or alluvium, to a particular area. In parts of the world with active volcanoes, the volcanic ash layers will begin to form soil layers, and then may be covered again by ash. In some of these areas, one can find buried soil horizons. A soil that is nearly the same color throughout the profile, especially when there is little change in the properties of the profile horizons is probably a young soil. Climate also affects soil formation. In hot climates, many of the minerals will be oxidized, and the iron in the soil and clay will be a reddish color, rather than gray or black. Organic matter will also decompose more rapidly in a hot climate, and within the great plains region, the native soils in Minnesota will be darker, and much higher in organic matter than those in Texas. Rainfall also affects soil formation. In areas of extremely high annual rainfall, some minerals, and in some cases, organic matter will have been leached from the topsoil to a lower layer. The pH may be lower on these soils, due to the leaching of calcium from the topsoil. Areas of low rainfall, especially where annual rainfall is less than the annual evaporation, will accumulate minerals, including calcium and other salts on the surface. Topography often affects how much erosion has taken place. Soils on top of hills or on steep side slopes tend to be thinner, or more eroded than those on the slopes, and at the bottom or "toe" of a slope, one can find zones of soil accumulation. Management, along with

topography will also affect how much erosion has, and is continuing to take place. The thinner, or more eroded soils will often be lower in organic matter, since they have lost their topsoil layer. The clays in the subsoil layers are then on the top. A field that is "patchy" in color will probably have had some erosion historically. Biological processes that affect soil have historically been determined by the native or natural vegetation. Soils that form under forests are very different than those that have formed in grassland regions. Much of the soil in the Great Plains was formed when the region was covered by prairie grasses. This soil is very fertile, and rich in organic matter compared to soils of other regions. The deep grass roots added organic matter to a depth of several feet in some cases, leading to the formation of the rich, dark soils that have made Kansas the "breadbasket" of the world. Tillage, and planting of annual crops on these soils has halted this addition of organic matter, but reduced tillage and adding perennial crops into the rotation can help maintain the organic matter that is left. The nutrient content of soil now will be a combination of; 1) the starting natural fertility of the parent material (Kansas soils, for example, tend to be naturally high in potassium), 2) the subtraction of nutrients as a result of erosion and crop use since the land has been tilled (generally for the past 100 years or so), and 3) additions of fertilizer sources such as manures, composts, legumes, and mineral fertilizers. When designing a soil sampling program, one needs to consider all of these factors. Knowing the soil type (from soil survey maps), topography, and field histories (crops grown and fertility sources) will help you design a plan to answer specific farm management questions.

#### **Definition of soil:**

Soil is a mixture of organic matter, minerals, gases, liquids, and organisms that together support life. The Earth's body of soil is the pedosphere, which has four important functions: it is a medium for plant growth; it is a means of water storage, supply and purification; it is a modifier of Earth's atmosphere; it is a habitat for organisms; all of which, in turn, modify the soil.

#### **Types of soil:**

##### **I. Based on the dominating size of the particles within a soil**

II. Sand 2. Silt 3. Peat 4. Clay 5. Chalk 6. Loam

##### **II. Based on colour**

1. Alluvial Soils: 2. Black Soils: 3. Red Soils 4. Laterite Soils:  
5. Mountain Soils 6. Desert Soils:

## 1. Based on the dominating size of the particles within a soil

### 1. Sand



The first type of soil is the sand. It consists of small particles of weathered rock. Sandy soils are one of the poorest types of soils to grow any kind of plant, because it stops the soil from retaining water and makes it hard for the plants roots to absorb water. But this type of soil plays a very good role in the drainage system.

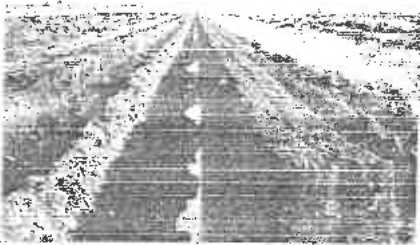
### 2. Silt



Silt, which is known to have much smaller particles compared to the sandy soil and is made up of rock and other mineral particles which are smaller than sand and larger than clay. It is the smooth and quite fine quality of the soil that holds water better than sand. Silt is easily transported by moving currents and it is mainly found near the river, lake beds, etc. The silt is more fertile soil compared to other three types of soil. Therefore it is also used in agricultural practices to improve soil fertility.

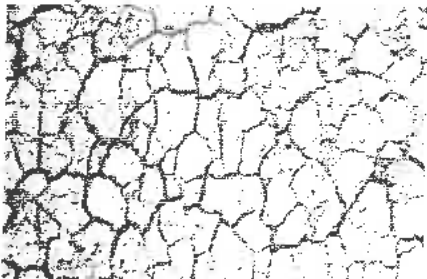
### 3. Peat

This soil is also called (turf peat), is an accumulation of partially decayed vegetation or organic matter that is unique to natural areas



called peatlands, bogs, mires, moors, or muskegs.[1][2] The peatland ecosystem is the most efficient carbon sink on the planet.[2] because peatland plants capture CO<sub>2</sub> naturally released from the peat, maintaining an equilibrium. In natural peatlands, the "annual rate of biomass production is greater than the rate of decomposition", but it takes "thousands of years for peatlands to develop the deposits of 1.5 to 2.3 m [4.9 to 7.5 ft], which is the average depth of the boreal [northern] peatlands".[2] Sphagnum moss, also called peat moss, is one of the most common components in peat, although many other plants can contribute. Soils consisting primarily of peat are known as histosols. Peat forms in wetland conditions, where flooding obstructs the flow of oxygen from the atmosphere, slowing the rate of decomposition

### 4. Clay



Clay is the smallest particles amongst other two types of soil. The particles in this soil are tightly packed together with each other with very little or no airspace. This soil has a very good water storage qualities and making hard for moisture and air to penetrate it. It is very sticky to the touch when wet, but smooth when dried. Clay is the densest and heaviest type of soil which do not drain well or provide space for plant roots to flourish



5. **Chalk** Chalk soil is a soft, white, porous, sedimentary carbonate rock, a form of limestone composed of the mineral calcite. Calcite is an ionic salt called calcium carbonate or  $\text{CaCO}_3$ . It forms under reasonably deep marine conditions from the gradual accumulation of minute calcite shells (coccoliths) shed from micro-organisms called coccolithophores. Flint (a type of chert) is very common as bands parallel to the bedding or as nodules embedded in chalk. It is probably derived from sponge spicules or other siliceous organisms as water is expelled upwards during compaction. Flint is often deposited around larger fossils such as Echinoidea which may be silicified (i.e. replaced molecule by molecule by flint).



material content.

6. **Loam** Loam is the fourth types of soil. Even though it is a combination of sand, silt, and clay. It is the gardener's favorite kind of soil. Among all these three types of soil, this loamy soil is more suitable for farming. Loam soil is also referred to as an equilibrium soil as it includes an equilibrium of all three types of soil materials being sand, clay and silt and also happens to have humus. Apart from these, it also has a higher calcium and pH levels because of its previous organic

## II. Based on colour



### 1. Alluvial Soils:

These are formed by the deposition of sediments by rivers. They are rich in humus and very fertile. They are found in Great Northern plain, lower valleys of Narmada and Tapti and Northern Gujarat. These soils are renewed every year.



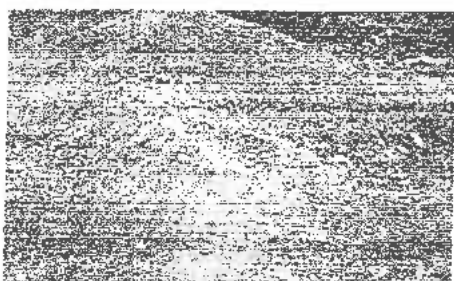
Organic matter

2. **Black Soils:** These soils are made up of volcanic rocks and lava-flow. It is concentrated over Deccan Lava Tract which includes parts of Maharashtra, Chhattisgarh, Madhya Pradesh, Gujarat, Andhra Pradesh and Tamil Nadu. It consists of Lime, Iron, Magnesium and also Potash but lacks in Phosphorus, Nitrogen and



3. **Red Soils:** These are derived from weathering of ancient metamorphic rocks of Deccan Plateau. Its redness is due to iron composition. When iron content is lower it is

yellow or brown. They cover almost the whole of Tamil Nadu, Andhra Pradesh.



**4. Laterite Soils:** These soils are formed due to intense leaching and are well developed on the summits of hills and uplands. They are commonly found in Kerala, Tamil Nadu, Maharashtra, Chhattisgarh and hilly areas of Orissa and Assam

**5. Mountain Soils:** These soils



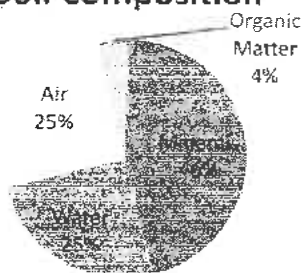
are formed as a result of the accumulation of organic matter derived from forest growth. They are found in Himalayan region and vary in different regions according to altitude. Tea is grown in those areas which receive sufficient rainfall.



**6. Desert Soils:** In the desert regions of Rajasthan, soils are not well developed. As evaporation is in excess of rainfall, the soil has a high salt content and saline layer forms a hard crust. These soils are generally sandy and deficient in organic matter.

### Composition of soil

#### Soil Composition



cultivation practices, and/or soil type.

The basic components of soil are minerals, organic matter, water and air. The typical soil consists of approximately 45% mineral, 5% organic matter, 20-30% water, and 20-30% air. These percentages are only generalizations at best. In reality, the soil is very complex and dynamic. The composition of the soil can fluctuate on a daily basis, depending on numerous factors such as water supply,

## Estimation of carbon

### Solution required :-

- 1) Pottassium dichromate 1N – 49.0 g in 1 Ltr
- 2) (conc) Sulphuric acid
- 3) Ferrous ammonium sulphate 0.1N – 39.2 g in 1 Ltr
- 4) Ferrouin indicater

### Procedure :-

1gm of soil is weighed accurately placed in a 100ml conical flask , 10ml of 1.0N Pottassium dichromate and 10ml (conc) Sulphuric acid are added. Kept for 1hour to complete the reaction. To this 30ml distilled water is added and filtered. 10ml of filterate is titrated with 0.5N Ferrous ammonium sulphate using Ferrouin indicater the reading is recorded.

### Blank

10ml of 0.5N Pottassium dichromate is pipette into a 100ml conical flask , 20ml 5N Sulphuric acid is added and two drops of Ferrouin indicater is added and titrated against 1.0N FAS end point green to wine red.

### CALCULATION-

$$\% \text{ Of Carbon} = \frac{(\text{blank-burette reading}) * \text{Normality of FAS} * 0.003 * 100 * 5}{\text{Weight of soil taken}}$$

Weight of soil taken



## Estimation of CaCO<sub>3</sub> in the soil

### Solution required –

- 1) 0.1N Hcl - 9ml of (conc) Hcl dissolved in 1ltr D.W.
- 2) 0.1N NaOH -4g of NaOH dissolved in 1 ltr D.W.
- 3) Phenolphthalein indicator

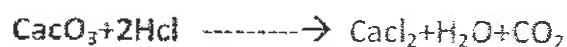
### Procedure -

Weight 5gm of completely dried soil place it in 250ml conical flask add exactly 100ml of 0.1 N Hcl shake for few minutes keep it for 1 hr for completion of the reaction . Pipette out 10ml of supernant liquid in 100ml conical flask add 1 – 2 drops of phenolphthalein indicator and titrate with 0.1N NaOH till colour changes from colourless to pale pink.

### Calculation –

$$\frac{(\text{Blank} - \text{B.R.}) * (\text{N of NaOH}) * (\text{vol. Of Hcl added}) * 100}{(\text{Volume of Hcl pippered}) (\text{weight of soil})}$$

### Equation & Conversion factor



$$1 \text{mole CaCO}_3 = 2 \text{mole HCl}$$

$$100 \text{g CaCO}_3 = 73 \text{g HCl}$$

$$50 \text{g of CaCO}_3 = 36.5 \text{g HCl}$$

$$50 \text{g of CaCO}_3 = 1000 \text{ml 1N HCl}$$

$$\therefore .1 \text{ml 1N HCl} = \frac{50}{1000} = 0.05 \text{g CaCO}_3$$

## Estimation of Sodium and Potassium

### Solution required –

- 1) Ammonium acetate 1N - 77g of Ammonium acetate dissolved in 1ltr D.W. pH of solution should be adjusted to 7 by 0.1 N HCl ( few drops).
- 2) 1000ppm KCl- 1.908g of A.R. grade KCl dissolved 1 ltr D.W.
- 3) 1000ppm NaCl - 2.54g of NaCl dissolved in 1 ltr D.W.

To warm the flame photometer switch on the electrical button after 5min switch on the compressor. Then turn on gas connection adjust the flame blue colour.first take blank reading then put the capillary in test solution observing readings for Na and K.

### Procedure –

1000ppm NaCl and KCl convert to 100ppm by taking 10ml of the 1000ppm solution & dilute to 100ml. From 100ppm NaCl and KCl the following std solutions are prepared 5, 10, 15, 20, 30, 40. By taking 5, 10, 15, 20, 30, 40ml of 100ppm solution is taken 100ml vol.fiasco and diluted 100ml with these solution readings were taken from flame photometer to calibration of the instrument.

5g of finely powdered dry soil is taken , 25ml of ammonium acetate is added shake for 5min and kept for 1hr for completion of the reaction. The solution is filtered and percentage of Na and K is determined by using flamephotometer.

### Calculation –

$$\text{Available K Kg/ha} = \frac{\text{Graph ppm} * \text{volume of extractant} * 2.24 * 10^6}{10^6 * \text{weight of soil}}$$

## DETERMINATION OF pH OF A SOIL SOLUTION & WATER

Before taking the pH of soil solution or water put on the power of pH meter at least 15 to 20min earlier.

### PREPARATION OF SOIL SOLUTION

20gm of powdered dry soil is weighed accurately & placed in 50ml distilled water stirred & kept for 3 to 4 hours till soil settles completely.

#### Procedure

4, 7 & 9.2 pH 3 to 4 standard buffer solutions of 4, 7, 9.2 pH are prepared & their readings are taken by dipping the pH cell . then washed the cell & dipped in soil solution and once again reading recorded .

For water- 50ml of water is taken in a beaker & the cell is dipped in it & the reading recorded.

## DETERMINATION OF EC OF SOIL AND WATER

Before taking the EC reading of soil a water put on the power of conductivity meter.

Preperation of 0.1N KCl- Analytical grade KCl is used for the preparation of standard solution. 0.746g og KCl is weighed accurately & dissolved in 100ml distilled water to get 0.1N solution.

PROCEDURE- First take 50ml of distilled water in a beaker dip the cell in it & adjust the cell constant to 0.900

Then 50ml of 0.1N KCl is taken in a clean dry beaker & dipped the EC cell in it & the reading is recorded ,it should be around 1.413ds/m

For soil dip the cell in the supernant liquid of soil solution & record the reading . in case water 50ml of water is taken in a clean beaker & cell is dipped in it & the reading is recorded.

## Estimation of phosphorus by spectrophotometer

### Solution required –

- 1) 0.5N NaHCO<sub>3</sub> solution – 42g of NaHCO<sub>3</sub> is dissolved in about 900ml distilled water adjust the pH to 8.5 by adding (dil) NaOH or HCl and make the volume 1 ltr by adding distilled water.
- 2) 5.0 N H<sub>2</sub>SO<sub>4</sub> – 140ml of (conc) H<sub>2</sub>SO<sub>4</sub> placed in 1ltr v. Flask dilute with D.W.
- 3) Reagent A – Dissolve 6g of Ammonium molybdate in hot distilled water 0.1954g of Antimony potassium tartarate is dissolved in D.W. separately . place both the solutions in 1000ml v.flask add 500ml 5N H<sub>2</sub>SO<sub>4</sub> and make the volume to 1000cc.
- 4) Solution B – Dissolve 1.056g Ascorbic acid in 200ml of reagent A.
- 5) P-Nitrophenol-0.5g of P-Nitrophenol dissolved in 100ml D.W.

### Drawing of standard graph

#### Preparation 100ppm KH<sub>2</sub>PO<sub>4</sub> solution -

KH<sub>2</sub>PO<sub>4</sub> is dried at 60<sup>0</sup>c then 0.4387g of it is weighed accurately. Dissolve it in 500ml D.W. Add 25ml 5N H<sub>2</sub>SO<sub>4</sub> make up the solution to 1000ml. This is 100ppm KH<sub>2</sub>PO<sub>4</sub> solution.

Preparation of 2ppm KH<sub>2</sub>PO<sub>4</sub> solution- 2ml of 1000ppm solution is taken in 100ml v. Flask diluted to get 2ppm solution. From this following standard solution are prepared 0.08, 0.16, 0.24, 0.32, 0.4, 0.48, 0.56, 0.64, 0.72 and 0.8 ppm by taking 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10ml of 2ppm solution in 25ml v. Flask to all these solutions add 5ml 0.5N NaHCO<sub>3</sub> 1-2 drops of P-Nitrophenol and 5N H<sub>2</sub>SO<sub>4</sub> till yellow colour disappears, then add 4ml solution B and then dilute to 25ml with D.W.

All these solution were kept for 1 hr and reading are taken, from these readings a graph is drawn by putting Absorbance on Y-axis VS ppm on X-axis.

## Estimation of nitrogen by kjeldahl's method

### Chemicals required -

- 1) 0.32% KMnO<sub>4</sub> - 3.2g KMnO<sub>4</sub> dissolved in 1 lit distilled water.
- 2) 2.5% NaOH - 25g of NaOH dissolved in 1 lit water.
- 3) Boric acid- 20g of Boric acid dissolved in 900ml water. Added 20ml mixed indicator dilute to 1 lit.
- 4) Mixed indicator- 0.1g Bromo cresol green + 0.07g of methyl red dissolve in 100ml alcohol.
- 5) Liquid paraffin-1ml for each sample.
- 6) 0.1N H<sub>2</sub>SO<sub>4</sub> - 2.7ml of (conc) H<sub>2</sub>SO<sub>4</sub> dissolved in 1 lit D.W. standardise with 0.1 NaOH.

### Procedure -

Weight accurately 10g of soil, place it in the kjeldahl's flask. Then add 5ml liquid paraffin, 2 to 3 boiling chips, 100ml distilled water and 100ml 0.32% KMnO<sub>4</sub> solution. Fit the flask with kjeldahl's trap and place a conical flask containing 25ml Boric acid at the tip of the condenser, see that tip of the condenser dips in Boric acid. All the fittings should be air tight. then add 100ml 2.5% NaOH from the sides and immediately after addition close the cock. Then heat the flask for 1 hr on heating mantle. After 1 hr first remove the flask cool and titrate with 0.1N H<sub>2</sub>SO<sub>4</sub> till the colour changes from green to wine red. the reading is recorded and the nitrogen content of the soil is calculated with the following formula.

### Observation -

- 1) Wt of soil -
- 2) Burette reading -

### Calculation -

$$\text{Available Nitrogen Kg/h} = \frac{B R * (\text{Normality of H}_2\text{SO}_4) * (0.014) * (2.24) (10^6)}{\text{Wt of sample}}$$

Wt of sample

## ESTIMATION OF MICRONUTRIENTS FROM ATOMIC ABSORPTION SPECTROPHOTOMETER

### PROCEDURE –

- 1) Preparation of soil solution - 15gm of dry soil + 30ml DTPA solution – shake it for 2 hours. Then filter to get completely clear solution.
- 2) Preparation of standard solution - For Iron , Cu & Mn ~ prepare 100ml 1, 2 & 3 ppm solution by taking 1, 2 & 3ml of std 1000ppm Iron solution. For Zn – prepare 100ml 0.2 & 0.4 & 0.6 ppm solutions by taking 0.2 & 0.4 & 0.6 ml of std 1000ppm Zn solution in 100ml volumetric flask & dilute.

### PROCEDURE FOR OPERATING THE AAS MACHINE

- 1) Start the compressor, CPU & AAS machine
- 2) Adjust the compressor air to 10 to 15 atm pressure & acetylene gas pressure to 10atm by operating the knob on the cylinder
- 3) On AAS machine adjust the air pressure to 10 to 15 atm & acetylene gas pressure to 2atm pressure
- 4) Click AAS I-com on monitor then click on com - I . now display appears . then click on index & wait for 5 to 10min.
- 5) Select the required metal & rotate the corresponding bulb & close the door.
- 6) Then adjust the lamp current for Zn & Cu – 5.0 & for Fe & Mn – 7.0
- 7) Now click on peak search & the peak should be above 70%
- 8) EHT should be adjusted to approximately 850 by rotating the knob on AAS.
- 9) When absorbance is above 70% then ignite the flame & once again click on peak search it should be 70% & above . EHT should be around 850.
- 10) Then go to menu- II & dip absorbing pipe in distilled water & zeroing is done & the reading should be zero for distilled water.
- 11) Click on std icon & type number of std solution & their ppm value.
- 12) Take 50ml of std solution place the sucking pipe in it & observe the reading after taking all the three std solution reading observe the graph it should inclined straight line.
- 13) Now place 50ml of soil solution in a beaker & dip sucking pipe & record the reading.
- 14) All the reading should be saved with appropriate number, name & date.

### CLOSING PROCEDURE

- 1) Gas connection is closed
- 2) Air connection is closed
- 3) Now go to menu – I from menu – II & exit.
- 4) Put off lamp current & the main current
- 5) Acetylene gas knob on the cylinder should be closed & put off the compressor.

**NOTE –** While taking soil solution reading the EHT should be around 850 & for different metal samples first zeroing should be done.



# ಶೈತ ಮಿಶ್ರ ಕೃಷಿ ಅಭಿವೃದ್ಧಿ ಸಂಘ (೦) ಸಂಕೇಶ್ವರ

ಎಮ್. ಪಿ. ಸೊಸಾಯಿಟಿ ಆಝಾದ ರೋಡ

ಸಂಕೇಶ್ವರ ತಾ : ಕುಕ್ಕೇರಿ ಜಿ : ಬೆಳಗಾವಿ

ಮಣ್ಣು ಪರಿಶೋಧನಾ ಪ್ರಯೋಗಶಾಲೆ ಮಣ್ಣು ಪರಿಶೋಧನಾ ವಿವರ

ಹೆಸರು :

ಸರ್ವೆ ನಂ :

ಊರು :

ಬೆಳೆ :

ಕ್ರಮ ಸಂಖ್ಯೆ :

2

ದಿನಾಂಕ :

ಪರಿಶೋಧನೆಯ ಪರಿಮಾಣ	ಪ್ರಮಾಣ / ಮಿತಿ	ನಿರೀಕ್ಷಣೆ
1 ಪಿ. ಎಚ್. (PH)	6.5 - 7.5	8.23
2 ಕ್ವಾರ್ಟೆ (Ec/ds/m)	1.0 ಕ್ಕಿಂತ ಕಡಿಮೆ	0.30
3 ಸಾವಯವ ಕಾರ್ಬನ್ %	0.75 ಕ್ಕಿಂತ ಹೆಚ್ಚು	0.975 %
4 ಫಾಸ್ಪರಸ್ ಕಿ/ ಹೆ (P)	14 - 21	62.7 kg/ha
5 ಫೋಸ್ಫಾರ್ಸ್ ಕಿ/ ಹೆ	151 - 250	112 kg/ha
6 ಕ್ಯಾಲ್ಸಿಯಮ್ ಕಾರ್ಬೋನೇಟ್ %	6.0 ಕ್ಕಿಂತ ಕಡಿಮೆ	9.80 %
7 ಕಬ್ಬಿಣ (Fe) ppm	4.6 ಕ್ಕಿಂತ ಹೆಚ್ಚು	7.84 kg P/ha
8 ಮ್ಯಾಂಗನಿಸ್ (mn) ppm	2.0 ಕ್ಕಿಂತ ಹೆಚ್ಚು	26.525 %
9 ಜಿಂಕ್ (Zn) ppm	0.6 ಕ್ಕಿಂತ ಹೆಚ್ಚು	4.52 %
10 ಕಾಮ್ರು (Cu) ppm	0.2 ಕ್ಕಿಂತ ಹೆಚ್ಚು	3.97 %
11 ಸಾರಜನಕ (N)		366.9 kg/ha
12 ಇತರೆ	na	210.6
13		
14		
15		

ಸಂಕೇಶ್ವರ

ಮಣ್ಣು ಪರಿಶೋಧನಾ



Dr. M. C. Hosur  
Chief Administrator M.Sc., Ph.D.  
Raj Wadgaonkar (Dr. M. C. Hosur, IR)  
SANKE SHIVAK, Tal. Mulkeri, Dist. Belagavi

## Conclusion of Soil Analysis

In soil analysis, there are six processes which are soil sampling technique, determination of texture of soil, determination of water content, determination of organic matter, determination of air content and soil pH. Three type of soil samples are used in soil analysis, which are housing area, pond and farm. The soil are extracted successfully. In the determination of texture of soil, it can be concluded that soil sample from housing area has the highest percentage of stone component whereas soil sample from farm has the highest percentage of sand component. Soil sample from pond has the highest percentage of slit and clay. Meanwhile, in the experiment of determination of water content, soilsample in pond has the highest water content with 22.88 % of water in the soil sample, followed by housing area soil sample (14.77%) and lastly, farm with 4.67% of water content which is very close to the reading of housing area soil sample. In the determination of organic matter, housing area soil has the highest percentage of organic matter (8.90%), followed by pond soil sample with 7.12%of organic matter and finally, farm with 4.02% of organic matter in soil. Besides that, in the determination of air content, farm soil sample has the highest air content which is 48.98% in the soil sample. The second place is housing area soil sample with 39.13% air content. Lastly, pond soil sample has the least air content which is 2.71%.In the determination of pH level of soil sample, soil sample of farm and pond is acidic, which is pH 5 and 6 respectively. However, housing area soil is slightly alkaline which is pH 8

## ACKNOWLEDGEMENT

We the B.Sc. VI Semester student of chemistry, wish to thank our teacher Prof. A.S. Jagnure, Head of the department of chemistry, Prof. G.B. Kumbhar, Prof S. B. Solbannavar, , Prof. Prashant Narawade and Prof. Priyanka Soudi Prof. Padamini Shedabal, Prof. Shrishail Narawade who has encouraged and worked with us in completing this project.

Our teachers of chemistry Department were well co-operative and gave us more relevant information about "SOIL ANALYSIS". And special thanks to Prof. Dr. M. C. Hosur Chief Administrator and Scientific Advisor, Rait Mitra Krishi Abhivrudhi Sangh , Sankeshwar. Who guided us to know more about the analysis and to conduct the practicals. Lastly it was a very unforgettable and highly memorable study tour to all of us.



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**IQAC INITIATIVE**

**Department of Chemistry**

**REPORT ON:- Certificate Course in Chemistry on "Soil Analysis"**

Name of the Department	Chemistry
Name of the Event Organized	Guest Lecture
Title of the Event	Soil analysis
Date of the Event Organized	29/02/2020
Name of the Convener	Smt. D. D. Bhoite
Participants	173
No. of Participants	Total 173 Teachers 10 Students 163
Name of the Expert with Designation	Dr. P. D. Shiragave, Associate Professor,
Contact Number & Address of the Expert	Department of Botany Devachnad College, Arjunagar
Objectives of the Event	1. To understand the different types of soil. 2. To make students to understand the different parameters of soil analysis.
Outcome of the Event	It enhances the skill of soil analysis and can become self-entrepreneurship.

**Photo Gallery**



**IQAC Coordinator**  
K.L.E.'s G. I. B. College, Nipani.

**HOD**  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.

**Principal**  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





Date: 29/02/2020

***Report on: Certificate Course in Chemistry on "Soil and Water Analysis." 2019-20***

Certificate Course in Chemistry on "Soil and Water Analysis" 2019-20 was inaugurated by Dr. P. D. Shiragave, Associated Professor in Botany, Devachand College Arjunnagar, (Maharashtra) on 29<sup>th</sup> February 2020. Dr. A. S. Jaganure HOD Chemistry welcomed the august gathering and introduced the chief guest. Dr. S. B. Solabannavar was presided over the function.

Dr. P. D. Shiragave, addressed the students regarding importance of soil and water analysis for B.Sc.VI semester students (PCM & CBZ). He further gave an idea about Micro nutrients present in soil, and effect of excessive use of fertilizers by farmers which in turn spoil the fertility of land. He highlighted the importance of pH for both water and soil, use of fertiliser Ammonium Sulphate at optimum pH to get better yield otherwise it will be poison for soil. He added the use of parameters to distinguish between portable water and ordinary water during water analysis which includes acidity, alkalinity, salinity and turbidity and the use of instruments like pH meter, Flame photometry, Potentiometer, Spectrophotometers etc. He said that the certificate course may help the students to create new skills for future and make them to become self-dependent by establishing their own laboratory as an entrepreneur in chemical industries. Dr. Atulkumar A. Kamble concluded the function with vote of thanks. Miss. Soundarya Patil and Miss. Neha Patil compeered the function.

In all 155 students which includes 95 girls attended the function and benefitted to enhance their skills for soil and water analysis.

Convener

Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

Principal  
G.I. Bagewadi Arts, Science & Commerce College, NIPANI.





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**IQAC INITIATIVE**

---

**Inauguration of Certificate Course**



**Speech by Chief Guest**



*Wase*  
Convener

*[Signature]*  
HOD  
Head

Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

*[Signature]*  
Principal  
PRINCIPAL

G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





II 3

**Department of Kannada**  
**Certificate Course in**  
**ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ - ಕನ್ನಡ**  
**(Competitive Examination- Kannada)**

**2019-2020**

**13/01/2020**

**TO**

**12/03/2020**





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**2019 - 2020**



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**ಕನ್ನಡ ವಿಭಾಗ**

**ಸೂಚನೆ**

ದಿ: 23-12-2019

ಮಹಾವಿದ್ಯಾಲಯದ ಎಲ್ಲ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಈ ಮೂಲಕ ತಿಳಿಸುವುದೇನೆಂದರೆ ಕನ್ನಡ ವಿಭಾಗವು ವಿದ್ಯಾರ್ಥಿಗಳಿಗಾಗಿ 3 ತಿಂಗಳ ಅಲ್ಪಾವಧಿ ಸರ್ಟಿಫಿಕೇಟ್ ಕೋರ್ಸ್ ಆರಂಭಿಸಲು ನಿರ್ಧರಿಸಿದೆ. ಕಾರಣ ಆಸಕ್ತಿಯುಳ್ಳ ವಿದ್ಯಾರ್ಥಿಗಳು ಜನವರಿ 03 ರ ಒಳಗಾಗಿ ಹೆಸರುಗಳನ್ನು ನೋಂದಾಯಿಸಿಕೊಳ್ಳಬೇಕು.

**ಕೋರ್ಸ್ ವಿವರ ಈ ಕೆಳಗಿನಂತಿದೆ**

ಕೋರ್ಸ್ ವಿಷಯ : ಕನ್ನಡದಲ್ಲಿ ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ

ಕೋರ್ಸ್ ಕಾಲಾವಧಿ : ಮೂರು ತಿಂಗಳು

ಕೋರ್ಸ್ ಆರಂಭ : 13 ಜನವರಿ, 2020

ಕೋರ್ಸ್ ಮುಕ್ತಾಯ : 12 ಮಾರ್ಚ್, 2020

**ಹೆಸರು ನೋಂದಾಯಿಸಿಕೊಳ್ಳಲಿಚ್ಛಿಸುವ ವಿದ್ಯಾರ್ಥಿಗಳು ಈ ಕೆಳಗಿನ ಅಧ್ಯಾಪಕರುಗಳನ್ನು ಸಂಪರ್ಕಿಸಬಹುದಾಗಿದೆ.**

ಶ್ರೀ ವಿ. ಬಿ. ಧಾರವಾಡ

ಡಾ. ಜಿ. ಎ. ಚೌಗಲಾ

ಶ್ರೀ ಬಿ. ಎಂ. ಜನಗೌಡ



  
ಮುಖ್ಯಸ್ಥರು  
Head  
Department of Kannada  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



KLE Society's

G.I.Bagewadi Arts, Science and Commerce College, Nipani- 591237

[Accredited at 'A' level by NAAC with CGPA 3.35]

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## Department of Kannada

### Certificate Course in

ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ - ಕನ್ನಡ

(Competitive Examination- Kannada)

2019-2020

### Free Registration


### List of Students

Sl.No.	Name of the Student	Class	Roll No.
01	Almas Yunus Mulla	BA-VI Sem	02
02	Prarthana Uday Paramaje	BA-VI Sem	25
03	Vandana Malaj	BA-VI Sem	39
04	Ratna B	BA-VI Sem	28
05	Chaitana Upadhye	BA-VI Sem	07
06	Annapurneshwari Mudhale	BA-VI Sem	03
07	Gayatri Patil	BA-VI Sem	11
08	Sahana Bagi	BA-VI Sem	31
09	Maruti Gavade	BA-VI Sem	18
10	Firojkhani Khanu	BA-VI Sem	09
11	Pallavi Kurade	BA-VI Sem	23
12	Sandhya Banasode	BA-VI Sem	32
13	Prashant Patil	BA-VI Sem	26
14	Pooja Patil	BA-VI Sem	24
15	Shivani Chandagade	BA-VI Sem	36
16	Priya Bhoje	BA-VI Sem	27
17	Sachin Khot	BA-VI Sem	30



18	Deepa Shingadi	BA-VI Sem	08
19	Reshma Mutnale	BA-VI Sem	29
20	Soundarya Kabbur	BA-VI Sem	38
21	Manjunath Karegar	BA-VI Sem	17
22	Sneha Mangasule	BA-VI Sem	37
23	Swati Patil	B.Com-VI Sem	86
24	Padmavati Shilepatil	B.Com-II Sem	62
25	Jinagouda Patil	B.Com-VI Sem	20
26	Kiran Naik	B.Com-IV Sem	21
27	Sambuddh Malage	B.Com-VI Sem	62
28	Kaveri Divate	B.Com-IV Sem	20
29	Shashidhar Gurav	B.Sc-IV Sem	44
30	Srushti Halagadagi	B.Sc-IV Sem	57
31	Pratiksha Suryavanshi	B.Sc-VI Sem	135
32	Soundarya Patil	B.Sc-VI Sem	90
33	Megha Kamble	B.Sc-VI Sem	24

  
Convener

  
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## Department of Kannada

ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ- ಕನ್ನಡ (Competitive Examination- Kannada) 2019-2020

ಪಠ್ಯಕ್ರಮ (Syllabus)

ಅಧ್ಯಾಯ- ೧ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆಯ ಸಂಕ್ಷಿಪ್ತ ಪರಿಚಯ

ಕನ್ನಡ ಸಾಹಿತ್ಯ ಪ್ರಭಾವ-ಪ್ರೇರಣೆ, ಪೂರ್ವದ ಹಳಗನ್ನಡ ಸಾಹಿತ್ಯ, ಹಳಗನ್ನಡ ಸಾಹಿತ್ಯ, ನಡುಗನ್ನಡ ಸಾಹಿತ್ಯ, ಹೊಸಗನ್ನಡ ಸಾಹಿತ್ಯ ಕುರಿತ ಸಂಕ್ಷಿಪ್ತ ಪರಿಚಯ.

ಅಧ್ಯಾಯ- ೨ ಕನ್ನಡ ನಾಡು-ನುಡಿಗಳ ಬಗ್ಗೆ ಸಂಕ್ಷಿಪ್ತ ಜ್ಞಾನ

ಸಾಹಿತ್ಯ, ಸಂಸ್ಕೃತಿ, ಕಲೆ, ವಾಸ್ತು ಶಿಲ್ಪ ಚಲನಚಿತ್ರ ಮೊದಲಾದ ಕ್ಷೇತ್ರಗಳಲ್ಲಿ ಸಾಧನೆಯ ಹೆಗ್ಗುರುತುಗಳ ಜ್ಞಾನವನ್ನು ಒಳಗೊಂಡಿದೆ.

ಅಧ್ಯಾಯ- ೩ ಕನ್ನಡ ವ್ಯಾಕರಣ

ವ್ಯಾಕರಣ ಕೃತಿಗಳ ಪರಿಚಯ, ವ್ಯಾಕ-ಪದ-ವರ್ಣ, ವರ್ಣಮಾಲೆ, ಸಂಧಿ, ನಾಮಪದಗಳು, ಲಿಂಗ, ವಚನ, ವಿಭಕ್ತಿ ಪ್ರತ್ಯಯಗಳು, ಸಮಾಸ, ಕ್ರಿಯಾಪದ ಪ್ರಕರಣ, ತತ್ಸಮ-ತದ್ಭವ, ಅನ್ಯದೇಶ್ಯ ಪದಗಳು, ಪದ ಬಿಡಿಸುವಿಕೆ, ಸಮನಾರ್ಥಕ, ನಾನಾರ್ಥಕ, ವಿರುದ್ಧಾರ್ಥಕ, ದ್ವಿರುಕ್ತಿ, ಜೋಡುನುಡಿ, ಅನುಕರಣವಾಚಿ, ನುಡಿಗಟ್ಟುಗಳು, ಶುದ್ಧ ಬರಹ, ಛಂದಸ್ಸು, ಅಲಂಕಾರಗಳು, ಲೇಖನ ಚಿಹ್ನೆಗಳು ಇತ್ಯಾದಿಗಳ ಕುರಿತ ಸಂಕ್ಷಿಪ್ತ ಪರಿಚಯ.

ಅಧ್ಯಾಯ- ೪ ಗಾದೆಗಳ ಅರ್ಥ ವಿವರಣೆ

ನೀಡಿರುವ ಲೋಕಪ್ರಿಯ ಗಾದೆಗಳಿಗೆ ಅರ್ಥವನ್ನು ಸರಳ ಭಾಷೆಯಲ್ಲಿ ವಿವರಿಸುವುದು.

ಅಧ್ಯಾಯ- ೫ ಪತ್ರಲೇಖನ ಕೌಶಲ

ಪತ್ರಲೇಖನ ಪ್ರಕಾರಗಳು, ಸ್ವ-ವಿಳಾಸ, ದಿನಾಂಕ, ಸಂಬೋಧನೆ, ವಿಷಯದ ನಿರೂಪಣೆ, ಮುಕ್ತಾಯ, ಹಸ್ತಾಕ್ಷರ, ಹೊರವಿಳಾಸ ಇತ್ಯಾದಿ ವಿಷಯವನ್ನು ಒಳಗೊಂಡಿದೆ.





ಅಧ್ಯಾಯ- ೬ ಪ್ರಬಂಧ ರಚನಾ ಕೌಶಲ

ಶೀರ್ಷಿಕೆ, ಪೀಠಿಕೆ, ವಿಷಯ ಮಂಡನೆ, ವಿಷಯ ವಿಸ್ತರಣೆ, ಚರ್ಚೆ, ಸಂಶ್ಲೇಷಣೆ, ಮುಕ್ತಾಯ ಮುಂತಾದ ವಿಷಯಗಳನ್ನು ಒಳಗೊಂಡಿದೆ.


ಅಧ್ಯಾಯ- ೭ ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಗಳ ಪ್ರಶೋತ್ತರ ಮಾದರಿಗಳು


ಕರ್ನಾಟಕ ಲೋಕ ಸೇವಾ ಆಯೋಗ ನಡೆಸಿದ ಪರೀಕ್ಷೆಗಳ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಗಳನ್ನು ಬಿಡಿಸುವುದು.

ಅಭ್ಯಾಸ ಸೂಚಿ :

೧. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಸಂಸ್ಕೃತಿ ಮೀಮಾಂಸೆ - ಸಂ: ಡಾ. ಸಿ.ಬಿ.ಹೊನ್ನಯ್ಯ
೨. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಸಂಸ್ಕೃತಿ ಕೋಶ - ಸಂ: ಡಾ. ಚಿ.ಸಿ.ನಿಂಗಣ್ಣ
೩. ಕನ್ನಡ ವ್ಯಾಕರಣ ದರ್ಪಣ - ಕನ್ನಡ ಸಾಹಿತ್ಯ ಪರಿಷತ್ತು
೪. ಕನ್ನಡ ಮಧ್ಯಮ ವ್ಯಾಕರಣ - ತೀ.ನಂ.ಶ್ರೀಕಂಠಯ್ಯ
೫. ಕನ್ನಡಕ್ಕೆ ಬೇಕು ಕನ್ನಡದ್ದೇ ವ್ಯಾಕರಣ - ಡಿ.ಎನ್.ಶಂಕರ ಭಟ್
೬. ಕನ್ನಡ ಕೈದಿವಿಗೆ - ಪ್ರೊ. ಕಲ್ಯಾಣರಾವ ಜಿ. ಪಾಟೀಲ, ಶ್ರೀ ಲಕ್ಷ್ಮೀಕಾಂತ ಸಿ. ಪಂಚಾಳ
೭. ಸಾಮಾನ್ಯ ಕನ್ನಡ - ಶ್ರೀ ಲಕ್ಷ್ಮಣ ಗಡೇಕಾರ
೮. ಕನ್ನಡ ರತ್ನ - ಶ್ರೀ ಲಕ್ಷ್ಮಣ ಗಡೇಕಾರ

  
Convener

  
HOD  
Head  
Department of Kannada  
K.L.E.'s G. I. B. College, Nipani.

  
Principal  
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## Department of Kannada

Certificate Course in "ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ- ಕನ್ನಡ"

(Competitive Examination- Kannada)

2019-2020

ಪಠ್ಯಕ್ರಮ ವಿತರಣೆ (Syllabus Distribution)

Sl. No.	Name of the Faculty	Topics
01	Prof. V.B.Dharwad	ಅಧ್ಯಾಯ- ೧ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆಯ ಸಂಕ್ಷಿಪ್ತ ಪರಿಚಯ ಅಧ್ಯಾಯ- ೨ ಕನ್ನಡ ನಾಡು-ನುಡಿಗಳ ಬಗ್ಗೆ ಸಂಕ್ಷಿಪ್ತ ಜ್ಞಾನ
02	Prof.(Smt). G.A.Chougala	ಅಧ್ಯಾಯ- ೩ ಕನ್ನಡ ವ್ಯಾಕರಣ ಅಧ್ಯಾಯ- ೪ ಗಾದೆಗಳ ಅರ್ಥ ವಿವರಣೆ
03	Mr. B.M.Janagouda	ಅಧ್ಯಾಯ- ೫ ಪತ್ರಲೇಖನ ಕೌಶಲ ಅಧ್ಯಾಯ- ೬ ಪ್ರಬಂಧ ರಚನಾ ಕೌಶಲ ಅಧ್ಯಾಯ- ೭ ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಗಳ ಪ್ರಶೋತ್ತರ ಮಾದರಿಗಳು

HOD  
Head

Department of Kannada  
K.L.E's G. I. B. College, Nipani.



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## DEPARTMENT OF KANNADA

**Certificate Course in "ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ- ಕನ್ನಡ"**

**(Competitive Examination- Kannada)**

**2019-2020**

**Workload- 30 Hours**

### Resource Persons :

1. Prof. V.B.Dharwad – 10 Hours
2. Prof. (Smt). G.A.Chougala – 10 Hours
3. Mr. B.M.Janagouda – 10 Hours

  
HGB

Department of Kannada  
K.L.E's G. I. B. College, Nipani.



  
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## Department of Kannada

**Certificate Course in "ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ - ಕನ್ನಡ"**

(Competitive Examination- Kannada)

**2019-2020**

### TIME- TABLE


**Class : BA-VI, B.Sc-IV & VI, B.Com-IV & VI Sem Hall No : 03**

Time	08:15	09:15	10:30	11:30	12:30	02:00	03:00	04:00
Days	to	to	to	to	to	to	to	to
	09:15	10:15	11:30	12:30	1:30	03:00	04:00	05:00
Monday	CEK							
Tuesday								CEK
Wednesday								
Thursday								CEK
Friday								
Saturday								CEK

  
HOD

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## Department of Kannada

### Certificate Course in

ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ - ಕನ್ನಡ

(Competitive Examination- Kannada)

2019-2020

## Result Sheet

Sl.No.	Name of the Student	Class	Roll No.	Marks Obtained (Out of 20)
01	Almas Yunus Mulla	BA-VI Sem	02	20
02	Prarthana Uday Paramaje	BA-VI Sem	25	20
03	Vandana Malaj	BA-VI Sem	39	20
04	Ratna B	BA-VI Sem	28	18
05	Chaitana Upadhye	BA-VI Sem	07	20
06	Annapurneshwari Mudhale	BA-VI Sem	03	20
07	Gayatri Patil	BA-VI Sem	11	20
08	Sahana Bagi	BA-VI Sem	31	18
09	Maruti Gavade	BA-VI Sem	18	20
10	Firojkhani Khanu	BA-VI Sem	09	20
11	Pallavi Kurade	BA-VI Sem	23	20
12	Sandhya Banasode	BA-VI Sem	32	20
13	Prashant Patil	BA-VI Sem	26	20
14	Pooja Patil	BA-VI Sem	24	20
15	Shivani Chandagade	BA-VI Sem	36	20
16	Priya Bhoje	BA-VI Sem	27	20



17	Sachin Khot	BA-VI Sem	30	18
18	Deepa Shingadi	BA-VI Sem	08	20
19	Reshma Mutnale	BA-VI Sem	29	20
20	Soundarya Kabbur	BA-VI Sem	38	20
21	Manjunath Karegar	BA-VI Sem	17	18
22	Sneha Mangasule	BA-VI Sem	37	18
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32	Soundarya Patil	B.Sc-VI Sem	90	20
33	Megha Kamble	B.Sc-VI Sem	24	20

*B. Bagewadi*  
Convener

*[Signature]*  
HOD  
Department of Kannada  
K.L.E's G. I. B. College, Nipani.

*[Signature]*  
Principal  
PRINCIPAL  
G.I.Bagewadi Arts, Science  
& Commerce College, Nipani







Since 1918

KLE Society's

**G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,  
NIPANI- 591237**

[Accredited at 'A' level by NAAC with CGPA 3.35]

**Department of Kannada**

# Certificate

This is to Certify that Mr/Ms, Chaitanya Upachya  
of B A VI Semester has Successfully Completed a Certificate Course in

“ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ-ಕನ್ನಡ” (Competitive Examination-Kannada) During the Year 2019-2020.

  
Convener



  
Head

Department of Kannada

  
Principal



K.L.E. Society's

**G.I. Bagewadi Arts, Science and Commerce College, Nipani- 591237**

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## Department of Kannada

### Report

Name of the event : Certificate course  
Title of the course : preparation of competitive Examination in Kannada  
Duration of the course : Three months  
Start of the course : 13<sup>th</sup> January, 2020  
End of the course : 12<sup>th</sup> March, 2020  
No. of Candidate : Twenty four

### Objectives of the Course :

- To enhance students confidence to face competitive exams.
- To create an interest in mother tongue.
- To acquire the knowledge of ancient and modern Kannada literature.
- To explain them the structural form of Kannada language.
- To develop writing skill by knowing basic grammar, meaning of proverbs and phrases in Kannada.

### Out come of the Course :

All the 24 candidates were very much delighted by learning basic concepts of Kannada language. And also feel very proud of their mother tongue which is having 2000 years rich history. They came to know why our Kannada language considered as one of the classical language of India.





HOD  
Head

Department of Kannada  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL

G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI



ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ

ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾಣಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲಾ: ಬೆಳಗಾವಿ

KLE Society's

G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

II 4

Date 04-01-2020

## NOTICE

### Department of Hindi

The department of Hindi is conducting a Certificate course in Translation in this semester for BA, BSc and BCom students.

The degree students who wanted have proficiency in translation of Kannada, English and Hindi are informed to meet Smt Sunita Hunnaragi on or before 10<sup>th</sup> January 2020 to join the course.

The details are given below.

**Course:** Certificate course in Translation (Kannada/English to Hindi).

**Duration:** Three months/40Hrs

H O D

Department of Hindi



PRINCIPAL  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

B.sc II Sem Sh

Bsc III year Sh

BA 4th sem Sh

B.A. VI sem. (Kan. opt) Sh

B.Sc VI sem (CBZ)

BA VI sem (Kan. opt) Sh

BSc IVth Sem

B.Sc - II sem Sh

Ban II - B Dom Sh

B.A. VI sem

B.Com II sem - A Sh

B.Com IV sem - Sh

B.A. II Sh

B.Sc IV sem Sh

Bsc III sem (Kan. opt) Sh

B.Com IV Sh

## K.L.E.Society's G.I. Bagewadi Arts, Science and Commerce College.

Nipani

Department of Hindi

Certificate course in Translation

Admission Form



1. Name of the Student : Akshata Ramchandr Malage
2. Class and Gender : ~~III B~~ B.Com II sem Female
3. Category : III B
4. Address for correspondence : A/P - Nipani  
Mob. NO : 9611425395

Declaration

I Akshata Ramchandr Malage of Class B.Com II <sup>sem</sup> Roll no 7

Hereby declare that if I am admitted to this course, I shall abide by all the rules and I am aware that I am eligible for any disciplinary action which might include expulsion from the course for non compliance with the rules that are in force or any other directive issued by the Dept.

Place : NipaniDate : 8-1-2020

Malage  
Signature of the Candidate

100Rs

**K.L.E.Society's G.I. Bagewadi Arts, Science and Commerce College.**  
**Nipani**

**Department of Hindi**  
**Certificate course in Translation**  
**Admission Form**



1. Name of the Student : Komal Dundappa Kallimane
2. Class and Gender : B.Com II sem Female
3. Category : III B
4. Address for correspondence : APP- Nipani  
Mob. No:-6366602638

**Declaration**

I Komal Dundappa Kallimane of Class B.Com II <sup>sem</sup> Roll no 45

Hereby declare that if I am admitted to this course, I shall abide by all the rules and I am aware that I am eligible for any disciplinary action which might include expulsion from the course for non compliance with the rules that are in force or any other directive issued by the Dept.

Place : Nipani

Date : 8-1-2020



K. D. Kallimane  
Signature of the Candidate





ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾಣಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲಾ: ಬೆಳಗಾವಿ

KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

**Department of Hindi**  
Certificate Course in Translation 2019-20

Sl.No.	Roll No	Name of the Student	Class
1	79	Miss.Rupali .G.Patil	B.COM II Sem
2	07	Miss.Akshata.Malage	B.COM II Sem
3	45	Miss.Komal.Kallimani	B.COM II Sem
4	28	Miss.Deepali.Chougule	B.COM II Sem
5	62	Miss.Padmavati .Shilepatil	B.COM II Sem
6	124	Miss.Teashree.R.Chikale	B.COM II Sem
7	21	Miss.Ashwini.Amate	B.COM II Sem
8	44	Miss.Komal.Gadakari	B.COM II Sem
9	59	Mr.Om Chandrakude	B.COM II Sem
10	31	Miss.Girija.A.Hindiholi	B.COM II Sem
11	19	Mr.Arjun.Kamble	B.COM II Sem
12	43	Miss.Kaveri Suryavanshi	B.COM II Sem
13	03	Miss.Aarushi.Rangoli	B.COM II Sem
14	54	Miss.Nandini.Shimpukade	B.COM II Sem
15	02	Miss.Arati.Shastrri	B.COM II Sem
16	122	Miss.Swaroopa.S.Sutar	B.COM II Sem
17	68	Mr. Prajwal.A.Patil	B.COM II Sem

HOD

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Department of Hind.  
K.L.E's G. I. B. College, Nipani



Principal  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

Certificate Code - BAHNC - 2010  
1 16-17  
2 11-2

K.L.E. Society  
G.I. Bagewadi College of Arts, Science and Commerce and P.G. College  
NIPANI-591 237

DEPARTMENT OF HINDI.  
CERTIFICATE COURSE IN TRANSLATION  
(ENGLISH - KANNADA - HINDI)

Duration of the Course - 36 Hours in 3 months SEMESTER.

Eligibility : Arts, Science and Commerce Degree Students.  
Course Fees : Rs. 100/-

**COURSE CONTENT :**

- UNIT I : 1.1 अनुवाद की परिभाषा ।  
1.2 अनुवाद का प्रयोजन ।  
1.3 अनुवाद की सीमाएँ ।
- UNIT 2 : 2.1 अनुवादक के गुण ।  
2.2 अनुवाद के भेद ।  
साहित्यिक विधा के आधार पर ।  
2.3 अनुवाद के प्रकार ।  
2.4 अनुवाद की प्रकृति ।  
2.5 भाषिक आधार पर ।
- UNIT 3 : 3.1 कन्नड से हिन्दी अनुवाद की समस्याएँ एवं समाधान ।  
3.2 अंग्रेजी से हिन्दी अनुवाद की समस्याएँ एवं समाधान ।  
3.3 हिन्दी से कन्नड एवं हिन्दी से अंग्रेजी अनुवाद की समस्याएँ एवं समाधान ।
- UNIT 4 : 4.1 साहित्यिक विधा के आधारपर अनुवाद ।  
4.2 गद्यानुवाद, पद्यानुवाद ।  
4.3 बैंकींग अनुवाद ।  
4.4 वैज्ञानिक अनुवाद ।  
4.5 साहित्येतर अनुवाद ।
- UNIT 5 : 5.1 अनुवाद के क्षेत्र में अब तक की गतिविधियों का पुनर्शीलन ।



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ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ



ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾಣಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲಾ: ಬೆಳಗಾವಿ

KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

Date : 04-01-2020

## Self Financed Certificate Course in Translation

### Kannada, English to Hindi: 2019-20

Class	Duration	Total Hours	Male	Female	Total	Fee
Under graduates	3 Months	36	08	17	25	Rs.100

H O D  
Department of Hindi  
K.L.E's G. I. B. College, Nipani.



Principal  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.



ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾನಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲೆ: ಬೆಳಗಾವಿ

KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

Date : 04-01-2020

## Department of Hindi

Self financed Certificate course in Translation 2019-20

(Kannada, English to Hindi)

Time table

Time	9.15	10.30	11.30	12.30	2	3	4
Monday							
Tuesday							
Wednesday	Cert course						
Thursday	Cert course						
Friday							
Saturday							Cert course

HOD

Dept. of Hindi  
Head

Department of Hindi  
K.L.E's G. I. B. College, Nipani



Principal  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.



ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಪಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
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**KLE Society's**  
**G. I. Bagewadi Arts, Science, Commerce & P. G. College,**  
**Nipani - 591237 Dist : Belgaum**

**Department of Hindi**  
**Certificate Course in Translation 2019-20**

**DATE :04/06/2020**

Sl.No.	Roll No	Name of the Student	Class	Marks
1	79	Miss.Rupali .G.Patil	B.COM II Sem	50
2	07	Miss.Akshata.Malage	B.COM II Sem	50
3	45	Miss.Komal.Kallimani	B.COM II Sem	50
4	28	Miss.Deepali.Chougule	B.COM II Sem	50
5	62	Miss.Padmavati .Shilepatil	B.COM II Sem	50
6	124	Miss.Teashree.R.Chikale	B.COM II Sem	50
7	21	Miss.Ashwini.Amate	B.COM II Sem	50
8	44	Miss.Komal.Gadakari	B.COM II Sem	50
9	59	Mr.Om Chandrakude	B.COM II Sem	50
10	31	Miss.Girija.A.Hindiholi	B.COM II Sem	20
11	19	Mr.Arjun.Kamble	B.COM II Sem	50
12	43	Miss.Kaveri Suryavanshi	B.COM II Sem	50
13	03	Miss.Aarushi.Rangoli	B.COM II Sem	50
14	54	Miss.Nandini.Shimpukade	B.COM II Sem	50
15	02	Miss.Arati.Shastr	B.COM II Sem	50
16	122	Miss.Swaroopa.S.Sutar	B.COM II Sem	50
17	68	Mr. Prajwal.A.Patil	B.COM II Sem	48

HOD

Department Head  
**Department of Hindi**  
**K.L.E's G. I. B. College, Nipani.**



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**PRINCIPAL**  
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**G. I. Bagewadi College, Nipani.**



K. L. E. Society's

G. I. Bagewadi Arts, Science and Commerce College Nippani

Department of Hindi

Certificate course in translation 2019-20(Kannada, English to Hindi)

Course online Examination Time: /90 Minutes

Marks: 50

B. Com II Sem

i) इन प्रश्नों का उत्तर लिखिए।

1×10=10

1) अनुवाद शब्द की व्युत्पत्ति ----- शब्द से हुई है।

अ) बद् आ) हद् इ) बद्

2) अनुवाद में ----- की समझना होनी चाहिए।

अ) भाषा आ) विचारों इ) शब्दों

3) डॉ. भीमनाथ तिवारी के अनुसार अनुवाद के ----- शिष्ट हैं।

अ) 15 आ) 17 इ) 18

4) संस्कृत में ----- के रूप में ही अनुवाद को परिभाषित किया है।

अ) रिवीजन आ) पुनः कथन इ) संपादन

5) अनुवाद एक ----- ही नहीं अभिन्न विधाव भी है।

अ) साहित्य आ) क्षेत्र इ) कला

6) अनुवादक के लिए ----- महत्वपूर्ण क्षेत्र है।

अ) नाटक आ) कविता इ) साहित्य

7) अनुवाद आज के युग की एक ----- आवश्यकता है।

अ) युग की अव्यक्त आ) बहुत इ) अनिवार्य

8) भाषा स्तर के आधार पर अनुवाद के ----- प्रकार होते हैं।

अ) दो आ) तीन इ) चार

9) अनुवाद के लिए अनुवादक के पास विशेष ----- का होना आवश्यक है।

अ) विचारों आ) भाषा इ) योग्यताओं

10) किसी एक भाषा का विषय दूसरी भाषा में ----- अनुवाद है।

अ) विन्ही 2 प्रश्नों का उत्तर लिखिए

2×5=10

11) अनुवाद की परिभाषा लिखिए।

12) अनुवादक के गुणों को स्पष्ट कीजिए।

13) अनुवाद के प्रमुख प्रकारों को लिखिए।

14) डॉ. भीमनाथ तिवारी के अनुसार अनुवाद के प्रकारों को लिखिए।

ii) इन शब्दों के पारिभाषिक शब्द लिखिए

2×5=10

15) employee 16) agency 17) valuation 18) act 19) circular

iv) हिंदी में अनुवाद कीजिए।


1×20=20

Transport facilities are the most essential condition for successful commercial development of a country. Railways are the most important of all communications originally. Railways were built in India for military purposes.

परिवहन सुविधाएँ एक देश के सफल वाणिज्यिक विकास के लिए अत्यंत आवश्यक शर्त हैं। रेलवे संचारण सुविधाएँ मूल रूप से सैन्य उद्देश्यों के लिए ही बनाई गई थीं। रेलवे भारत में सैन्य उद्देश्यों के लिए ही बनाई गई थीं।



Page \_\_\_\_\_



## Certificate Course in Translation 2019-20

नाम - पद्मावती र. शिबपरीक  
वर्ग - B.Com II sem  
डा. सं. - 62

50

- I
1. अनुवाद शब्द की व्युत्पत्ति इ.वद् धातु से हुई है।
  2. अनुवाद में अ. भावों की समानता होनी चाहिए।
  3. डॉ. भोलानाथ तिवारी के अनुसार अनुवाद के इ. 18 भेद हैं।
  4. संस्कृत में आ. पुनः कथन के रूप में ही अनुवाद को परिभाषित किया है।
  5. अनुवाद एक इ. कला ही नहीं अपितु विज्ञान भी है।
  6. अनुवाद के लिए इ. साहित्य महत्वपूर्ण क्षेत्र है।
  7. अनुवाद आज के युग की एक इ. अनिवार्य आवश्यकता है।
  8. 10 भाषा स्तर की आधार पर अनुवाद के अ. दो प्रकार होते हैं।
  9. अनुवाद के लिए अनुवादक के पास विशेष इ. योग्यताओं का होना आवश्यक है।
  10. किसी एक भाषा का विषय दूसरी भाषा में रूपांतर अनुवाद है।



II

12.

राजेंद्र प्रसाद जी ने कहा है कि "एक प्रकार से मौलिक लेख लिखना आसान है, पर किसी दूसरी भाषा से अनुवाद करना बहुत कठिन होता है। सफल अनुवाद के लिए अनुवादक को बहुभाषी व्यक्तित्व का होना आवश्यक है। इस दृष्टि से अनुवादक का व्यक्तित्व निम्न गुणों से संपन्न होना चाहिए।

अनुवाद के गुण

1. बहुभाषाविदता :- स्त्रोत भाषा तथा लक्ष्य भाषा पर अनुवादक का समान अधिकार होना चाहिए। भाषाओं पर अधिकार से तात्पर्य है दोनों भाषाओं को विभिन्न अंगों की भाषा-वैज्ञानिक व्याकरणिक तथा ऐतिहासिक दृष्टि से सम्यक् अध्ययन तथा उसका अनुप्रयुक्त से है। हर भाषा का अपनी विशेष प्रकृति होता है, उसका पहचान अगर अनुवादक को न हो तो अनुवाद भ्रंश और असहज होता है। विभिन्न ज्ञान-शाखाओं का पारभाषिक शब्दावली, वाक्यप्रयोग, कहेवर्ती, मुहावरों आदि का ज्ञान उसे अर्जित करना होता है। मानक भाषा के साथ उसका उपभाषाओं तथा बोलियों का ज्ञान भी आवश्यक होता है। आज के संदर्भ में तो बहुभाषीयता व्यक्तित्व अनुवादक के लिए अधिक लाभदायी साबित होता है क्योंकि संघर्ष सधनों तथा वैज्ञानिक आविष्कारों ने विश्व की लाभदायी भाषाओं में परस्पर लेन-देन प्रवृत्त को और बढ़ावा दिया है।

2. बहुश्रुतता :- वर्तमान समय में अनुवाद की आवश्यकता के अनुरूप उसके क्षेत्र का भी विस्तार होता जा रहा है। साहित्यिक अनुवाद में नयी विद्याओं का सृजन हो रहा है और हर नयी विद्या के साथ अनुवाद का एक नया क्षेत्र सामने आ रहा है। ज्ञान-विज्ञान की विविध शाखाओं की ज्ञान कक्षा के विस्तार के साथ अनुवाद-क्षेत्र का भी विस्तार हो रहा है। ऐसी स्थिति में सीमित ज्ञान के सहारे अनुवादक सफल अनुवाद कैसे कर पायेगा व यद् सहा है कि कोई एक व्यक्ति चाहे बूढ़ कितना मेधावी हो - सभी ज्ञान शाखाओं का ज्ञाता नहीं हो पायेगा,



लेकिन हमारे इर्द-गिर्द फैली अपार ज्ञान राशि से असंपृक्त होकर भी कोई जी नहीं पायेगा। बहुश्रुता आज विशेषता नहीं अपितु आवश्यकता बन गया है। जिस तरह साहित्य के क्षेत्र में हर विद्या अपने क्षेत्र को लाँचकर दूसरी विद्याओं में देखल अंदाज कर रही है। ऐसी स्थिति में अनुवादक को बहुश्रुत तथा बहुभाषी होना आवश्यक हो गया है।

3. प्रतीभा सम्पन्नता :- यद्यपि अनुवादक को मौलिक लेखक की अपेक्षा हमेशा बीना समझा गया है। क्योंकि वह मूल लेखक को व्यक्त करता है, अतः उसका स्थान दूसरा है। वास्तविकता यह है कि हम अपने आपको बड़ी आसानी से व्यक्त कर सकते हैं, दूसरे को व्यक्त करना मुश्किल होता है। हम अपने आपकी संवेदनाओं को बिना प्रयास साध्य है। डॉ. जी. गोपीनाथन् ने अनुवाद को 'परकाया प्रवेश' का संज्ञा दी है। 'परकाया प्रवेश' सामान्य कार्य नहीं असामान्य कार्य है। इसीलिए अनुवादक के पास भावधारी और कार्यान्वयी प्रतीभा का होना अनिवार्य है।

4. परिश्रमाशीलता एवं अभ्यास - प्रवणता :- अनुवाद बड़े जोखिम तथा परिश्रम भरा कार्य है। मूल पाठ का अध्ययन, उसके विभिन्न संदर्भों की पहचान, लक्ष्य भाषा के अनुरूप उसका पुनर्गठन - समायोजन और उसके बाद अभिव्यक्तिकरण यहाँ तक अनुवाद - प्रक्रिया का एक भावार्थ पूरा होता है। उसके बाद उसे एक आलोचक की तुलनात्मक दृष्टि से दोनों पाठों अर्थात् मूल - पाठ और अनूदित पाठ का परिक्षण कर उसमें आवश्यक संशोधन करना होता है। आवश्यकतानुरूप इसके कई आवर्त हो सकते हैं। इसे अनुवाद का 'अभ्यास - हेतु' कहा जा सकता है।

5. विवेकशक्ति :- अनुवाद की पूरी प्रक्रिया में अनुवादक को मूलपाठ का सीमा रेखा के भीतर ही कार्य करना होता है। विशेषकर अनूदित पाठ में उसे अपने व्यक्तित्व का संस्पर्श भी कराना है, पर एक सीमा तक ही। दूसरे शब्दों में, एक तरह का तटस्थता भी कराना है उसमें आवश्यक होता है।



डॉ. भोलानाथ तिवारी के शब्दों में, एक तरह की तटस्थता भी उसमें आवश्यक - "आदर्श अनुवाद सीरीज का वह सुई है जो सीरीज की दवा को ज्यों-का-त्यों मरीज के शरीर में पहुँचा देता है। आदर्श या सफल अनुवाद का दौरान मूल मंत्र है - "न तोड़िये न जोड़िये" अर्थात् एक तटस्थता के तहत मूलपाठ को अविभक्त रूप में अन्य भाषा में व्यक्त करना है।

6. अनुवाद - विज्ञान का ज्ञाता :- अनुवाद एक कला भी है और विज्ञान भी है। इसमें आवश्यक है कि अनुवादक अनुवाद - विज्ञान का ज्ञाता है। अनुवाद प्रक्रिया, अनुवाद के सिद्धांत, अनुवाद की समस्याएँ, अनुवाद के विभिन्न प्रकार एवं अनुवाद - प्राविधियाँ आदि का वैज्ञानिक अध्ययन अनुवाद के लिए आवश्यक है। साथ ही अनूदित साहित्य का तुलनात्मक अध्ययन करने से अनुवाद - प्रक्रिया में जिन समस्याओं का सामना करना पड़ता है, उसके समाधान भी प्राप्त हो सकते हैं।

### 13. अनुवाद के प्रमुख प्रकार

1. शब्दानुवाद :- शब्दानुवाद से अभिप्राय उस अनुवाद से है जिसमें स्रोत - भाषा को प्रकृत को ध्यान में रखे बिना स्रोत - भाषा के शब्द का लक्ष्य - भाषा में अनुवाद कर दिया जाता है। इसे पंक्ति - दर - पंक्ति, वाक्य - दर - वाक्य अनुवाद भी कहते हैं। इसके तीन उपभेद हैं।

- क. शब्दक्रमानुवृत्ति
- ख. शब्दानुवृत्ति
- ग. समर्थकानुवृत्ति



2. सहजानुवाद :- इसे आदर्श अनुवाद भी कहा जा सकता है। इसमें अनुवादक स्रोत भाषा में अर्थात् मूल शब्दों में निकटतम सहज अनुवाद करता है। इसमें अनुवादक किसी आकृष्ट - दुराकृष्ट, आरोपण - मूल्यारोपण से मुक्त होकर सिर्फ यह प्रयत्न करता है कि लक्ष्य भाषा में अनुवाद को पढ़ कर पाठक - श्रोता को स्रोत भाषा का समुचित ज्ञान तो हो ही, परन्तु अनुवादित रचना को पढ़ते - पढ़ते पाठक या श्रोता को स्रोत भाषा का स्मरण न हो, बल्कि वह उस रचना के आनंद को, मूल भाषा के पाठकों के समान ही उसी गहराई, उसी संवेदना तथा सम्प्रेषण की तीव्रता ग्रहण करे। अनुवादक इस बात में सावधाना बरते कि अपने व्यक्तित्व का तंत्रिक भा प्रभाव अनुवाद पर न पड़े।

3. भावानुवाद :- अनुवाद के क्षेत्र में अन्य सभी अनुवादों की अपेक्षा भावानुवाद को उत्तम कला का अनुवाद माना जाता है। भावानुवाद में शब्दानुवाद का तरह केवल शब्द, वाक्यांश तथा वाक्य प्रयोग आदि पर ध्यान न देकर स्रोत भाषा तथा लक्ष्य भाषा के मूल अर्थ, विचार और भावाभिव्यक्ति पर ही अधिक ध्यान दिया जाता है। भावानुवाद में मूल पाठ की आत्मा अर्थात् मूल कथ्य की सामग्री को ही मुख्य मानकर उसे लक्ष्य भाषा में यथायोग्य पदधानु से सम्प्रेषित किया जाता है। अनुवाद के क्षेत्र में कभी - कभी ऐसी स्थितियाँ पैदा होती हैं, जब अनुवाद किसी मूल पाठ या वाक्यांश का ठीक - ठीक शब्दानुवाद करने में असमर्थ होता है।

4. धारानुवाद :- हिन्दी में धारानुवाद तथा भावानुवाद शब्द एक - दूसरे के पर्याय शब्द रूप में प्रयुक्त होते हैं, जबकि अनुवाद के रूप में प्रस्तुत किया जाता है, तब इसे अनुवाद को धारानुवाद कहते हैं। इसमें लेखक मूल रचना को धारा ग्रहण कर स्वतंत्र भाव से उसी रचना को पुनः लिखता है। विशेषकर विदेशी रचना के चारित्र, स्थान, वातावरण को अपने देश के अनुरूप अर्थात् उसका भारतीयकरण करके किया गया अनुवाद इसके अन्तर्गत



आ जाता है। हिंदी के प्रसिद्ध कथाकार जेनेद्र ने रूसी साहित्यकार तोल्सताय की कहानियों का अनुवाद करते समय इसी शैली का आश्रय लिया है।

5. सारानुवाद :- इसमें स्रोत भाषा को मूल सामग्री का संक्षिप्त अनुवाद किया जाता है। इस पद्धति का उपयोग सार्वजनिक सभाओं, संगोष्ठियों, संसद एवं विधान सभा आदि में दिये गये भाषणों, वक्तव्यों आदि का सूचना देने के लिए अखबारों के संवाददाता करते हैं। सारानुवाद का काम परिश्रम साध्य है तथा पर्याप्त अभ्यास की अपेक्षा रखता है। अपनी संक्षिप्तता, सरलता, स्पष्टता, तथा लक्ष्य भाषा के स्वाभाविक-सहज, प्रवाह के कारण व्यावहारिक कार्यों के सामान्य अनुवाद की तुलना सारानुवाद अधिक उपयोगी पाया जाता है।

6. व्याख्याननुवाद :- इसे टीकानुवाद भी कहा जा सकता है। इसमें मूल पाठ का व्याख्या या टीका के साथ अनुवाद किया जाता है। कुछ अनुवादक मूल पाठ का अनुवाद करते समय उसके प्रत्येक शब्द तथा पद को अतिरिक्त व्याख्या भी करते हैं। श्री लोकमान्य तिलक का 'गीता रहस्य' इस प्रकार के अनुवाद का उदाहरण है। इस पर अनुवादक के व्यक्तित्व तथा चिन्तन की पर्याप्त मात्रा में छया होता है।

7. वार्तानुवाद :- कभी-कभी दो विभिन्न भाषाओं के बीच कोई व्यक्ति भाषा माध्यम बनता है और इनकी आपसी बातचीत को अपने दो अथवा अधिक भाषाओं के ज्ञान के कारण घुरंत ही एक-दूसरे के सम्मुख ही उनकी वार्ता के सहमति अथवा असहमति के मुद्दों से उन्हीं की भाषा में अनुवाद कर प्रस्तुत कर देता है। इस तरह के अनुवाद को आशु अनुवाद भी कहा जा सकता है, क्योंकि वह घुरंत किया जाता है।



8. स्वांतर :- मूल रचना को अपनी रूपा के अनुसार स्वान्तरित करना स्वान्तरण है। अधिकतर इसमें विधान्तरण होता है। एक विद्या को रचना को कुछ मामूली परिवर्तनों के साथ दूसरी विद्या में परिवर्तित किया जाता है। जैसे किसी अन्य भाषा की कहानी को नभनाट्य में स्वान्तरित करके अनुवाद करना स्वान्तरण - अनुवाद है। यह छायावाद के निकट - सा होता है।

9. भाषान्तर :- यद्यपि अनुवाद और भाषान्तर शब्द एक - दूसरे के पर्याय के रूप में प्रयुक्त होते हैं। जबकि भाषान्तर अनुवाद का एक भेद है। जब स्रोत - भाषा को किसी कृत के पूरे के पूरे अर्थ को बिना किसी परिवर्तन अथवा घटाव - बढ़ाव के लक्ष्य - भाषा में कह दिया जाता है तब उसे भाषान्तर कहते हैं। एक सफल भाषान्तर बड़ा माना जाता है जिसमें स्रोत भाषा में कही गयी बात लक्ष्य - भाषा में एक जैसी अभिव्यक्त पाता है।

III

15. Employee - कर्मचारी

16. agency - अधिकरण

17. valuation - मूल्यांकन

18. act - अधिनियम

19. circular - परिपत्र





certificate course in translation

2019 - 20

नाम :- अक्षता रामचंद्र माळगे

वर्ग :- Bcom II sem.

एजरी क्र :- 7



10

1] अनुवाद शब्द की व्युत्पत्ति अनु व वाद शब्दों से हुई है।

2] अनुवाद में अर्थ भावों की समानता होनी चाहिए।

3] डॉ. अमीरानाथ निवारी के अनुसार अनुवाद के अ 18 भेद हैं।

4] संस्कृत में अनु पुनः कथन के रूप में ही अनुवाद का परिभाषित किया है।

5] अनुवाद एक अ कला है नही अरिन्तु विज्ञान भी है।

6] अनुवाद के लि अ साहित्य महत्वपूर्ण क्षेत्र है।

7] अनुवाद आज के युग की एक अ अनिवार्य आवश्यकता है।

8] भाषा स्तर की आधार पर अनुवाद के अ दो प्रकार होते हैं।

9] अनुवाद के लि अनुवादक के पास विशेष अ योग्यताओं का होना आवश्यक है।

10] किसी एक भाषा को विषय दूसरी भाषा में अ रूपांतर अनुवाद है।



12) राजेन्द्र प्रसाद जी ने कहा है की मूल प्रकार से मौलिक लेख लिखना आसान है पर किसी दूसरी भाषा से अनुवाद करना बहुत कठिन होता है। सफल अनुवाद के लिए अनुवादक को बहुभाषी व्यक्तिमत्त्व का होना आवश्यक है।

अनुवादक के गुण :-

1) बहुभाषाविदता :- स्त्रीय भाषा तथा लक्ष्य भाषा पर अनुवादक का समान अधिकार होना चाहिए। भाषाओं पर अधिकार से नातर ही दोनों भाषाओं को समझने अंगों का भाषा - वैज्ञानिक ऐतिहासिक तथा मानसिक दृष्टि से समझ अद्यतन तथा उनकी अनुप्रयुक्ति से है। हर भाषा की अपनी विशेष प्रकृति होती है उसकी पहचान अगर अनुवादक को न हो तो अनुवाद भ्रष्ट और असहज होता है।

2) बहुवृत्तता :- वर्तमान समय में अनुवाद की आवश्यकता के अतिरिक्त उसके क्षेत्र का भी विस्तार होना जा रहा है। स्वाधीनता अनुवाद में मिन जयी विद्याओं का सृजन हो रहा है और हर नयी विद्या के साथ अनुवाद का मूल तथा क्षेत्र सामान्य आ रहा है। ज्ञान विज्ञान की विविध शाखाओं की ज्ञान कक्षा के विस्तार के साथ अनुवाद-क्षेत्र का भी विस्तार हो रहा है। ऐसी स्थिति में सीमित ज्ञान के स्तर पर अनुवादक सफल अनुवाद कैसे कर पायेगा ? यह सही है की कोई मूल व्यक्ति चाहे वह कितना मेधावी हो - सभी ज्ञान शाखाओं का ज्ञान नहीं हो पायेगा लेकिन हमारे इति-भित्त के की अपार ज्ञान शक्ति से असंपृक्त होकर भी कोई जी नहीं पायेगा। (बहुवृत्त) आज विशेषता नहीं अति आवश्यकता बन गयी है। जिस तरह स्वाधीनता के क्षेत्र में हर विद्या अपने क्षेत्र के कालकर दूसरी विद्याओं से अपक दरमूल अंश ले कर रही है। ऐसी स्थिति में अनुवादक को बहुवृत्त तथा बहुज्ञ होना आवश्यक हो गया है।



3) प्रतीक्षा संज्ञाना :- यद्यपि अनुवादक को भौतिक लेखक की अपेक्षा हमेशा बौना समझा गया है। वरुंकी वह मूल लेखक को व्यक्त करता है। अतः उसका स्थान दूसरा है। वास्तविकता यह है कि हम अपने आपको बड़ी आसानी से व्यक्त कर सकते हैं। दूसरे को व्यक्त करना मुश्किल होता है। हम अपने आपकी संवेदनाओं को बौना प्रयास खाद्य है। डॉ. जी गोपाबाराज ने अनुवाद को पर प्रवेश की संदी है। परकारा प्रवेश सामान्य कार्य नहीं असामान्य कार्य हो ईस्मिन् अनुवादक के पास भावशरी और कारशरी प्रानि भा का होना अनिवार्य है।

4) परिष्कारिता मूल अभ्यास - प्रवर्तना :- अनुवाद को जोखिम तथा परिष्कार करा कार्य है। मूल पाठ का अध्ययन उसके विभिन्न-संदर्भों की पहचान लक्ष्य भाषा के अनुरूप उसका पुनर्गठन - स्वमाधोजन और उसके बाद अभिव्यक्ति करण। यहाँ तक अनुवाद-प्रक्रिया का एक आधान पुरा होता है। उसके बाद उसे एक आलोचक की मुलजात्मक दृष्टि से दोनो पाठो अर्थात् मूल-पाठ और अनुदिन पाठ का परिष्कार कर उसमें आवश्यक संशोधन करना होता है। आवश्यकतानुसार इसके कई आधान हो सकते हैं। इसे अनुवादक अभ्यास - हेतु कहा जा सकता है।

5) विवेकारिता :- अनुवाद की पूरी प्रक्रिया में अनुवादक को मूलपाठ की सीमा रेखा के भीतर ही कार्य करना होता है। विशेषकर अनुदिन पाठ में उसे अपने व्यक्तित्व का स्वस्पर्श भी करना है पर मक सीमा तक ही। दूसरे शब्दों में मक तरह की नदरधना भी उसमें आवश्यक होती है। डॉ. भोलानाथ निवारी के शब्दों में - आदर्श अनुवाद सीरिज की वह सूत्र है जो सीरिज की दवा को जहाँ-कहाँ-त्यों मरीज के शरीर में पहुँचा देती है। "अपदेश" का सफल अनुवाद का दौरान-मूल मंत्र है - न नीति - ये न जोडिये अर्थात् मक नदरधना के नहने मूलपाठ की अविकृत रूप में अन्य भाषा में व्यक्त करना है।



6] अनुवाद - विज्ञान का ज्ञान :- अनुवाद एक कला भी है और विज्ञान भी है। इसलिये आवश्यक है की अनुवादक अनुवाद - विज्ञान का ज्ञान है। अनुवाद प्रक्रिया अनुवाद के सिद्धांत अनुवाद की स्वमर्यादा अनुवाद के विभिन्न प्रकार में अनुवाद - प्राविण्य आदि का वैज्ञानिक अध्ययन अनुवाद के लिए आवश्यक है। साथ ही अनुदिन स्वाधीनता का, तुलनात्मक अध्ययन करने से अनुवाद - प्रक्रिया में जिन स्वमर्यादों का अध्ययन करने से अनुवाद - प्रक्रिया में जिन स्वमर्यादों का स्वामता करना पड़ता है। उसके स्वभा - धान भी प्राप्त हो सकते हैं।

13] अनुवाद के प्रमुख प्रकार :-

1] शब्दानुवाद :- शब्दानुवाद से आशय प्रायः ठोस अनुवाद से है जिसमें स्त्रोत-भाषा की प्रकृति को ध्यान में रखे बिना स्त्रोत-भाषा के शब्द का लक्ष्य-भाषा में अनुवाद कर दिया जाता है। इसे वाक्य-पर-वाक्य वाक्य-पर-वाक्य अनुवाद भी कहते हैं। इसमें निम्न आशय है।

- क) शब्द लक्ष्य है
- ख) शब्द है
- ग) संघक है

2] सहजानुवाद :- इसे आदर्श अनुवाद भी कहा जा सकता है। इसमें अनुवादक स्त्रोत भाषा में अर्थ-मय शब्दों निकटतम सहज अनुवाद करता है। इसमें अनुवादक किसी आशय-पुराण अशेषता-प्रतारोपण जैसे मुक्त होकर सिर्फ सह प्रयत्न करता है की लक्ष्य भाषा में अनुवाद को पढ़कर पाठक-लेखक को स्त्रोत भाषा की समृद्धता का ज्ञान तो हो ही परन्तु अनुदिन रचना को पढ़ने-पढ़ने पाठक या लेखक को स्त्रोत भाषा का समझ न हो वन्की वह ठोस रचना के आनंद को मूल भाषा के पाठकों के समान ही उसी गहराई उसी खंडेपना तथा समुपेक्षा की निधि-ता गहरा करे।



3] भावानुवाद :- अनुवाद के क्षेत्र में अन्य सभी अनुवादों की अपेक्षा भावानुवाद की उत्तम कोटी का अनुवाद माना जाता है। भावानुवाद में शब्दानुवाद की तरह केवल शब्द-वाक्यांश तथा वाक्य प्रयोग आदि पर ध्यान न देकर स्रोत भाषा तथा लक्ष्य भाषा के मूल अर्थ विचार, और भावामिव्यक्ति पर ही अधिक ध्यान दिया जाता है। भावानुवाद में मूल पाठ की आत्मा अथवा मूल कथन की स्वामी की ही मुख्य मानकर उसे लक्ष्य भाषा में उद्योग्य पदार्थों से सम्यक् ढंग से व्यक्त किया जाता है। अनुवाद के क्षेत्र में कभी-कभी ऐसी स्थितियाँ हो सकती हैं कि शब्दानुवाद करने में असमर्थ होता है।

4] छाया अनुवाद :- हिन्दी में छाया अनुवाद तथा भावानुवाद शब्द एक दूसरे के उचित शब्द रूप में प्रयुक्त होने हैं जबकि अनुवाद के रूप में प्रयुक्त किया जाता है तब इसे अनुवाद की छाया अनुवाद कहते हैं। इसमें लेखक मूल रचना की छाया महसूस कर स्वतंत्र भाव से उसी रचना को पुनः लिखता है।

5] स्वरानुवाद :- इसमें स्रोत भाषा की मूल स्वामी का स्वतंत्र अनुवाद किया जाता है। इस पदार्थ का उपयोग सार्वजनिक स्वामियों स्वगोष्ठियों संसद में विधान सभा आदि अनेक भाषणों व्यक्तियों आदि का सूचना देने के लिए अखबारों के संवाददाता करते हैं। स्वरानुवाद का काम पारिवर्तन-वाचक है तथा उचित अभ्यास की अपेक्षा रखता है। अपनी सहायता, स्फूर्ति-ता, स्पष्टता, तथा लक्ष्य भाषा के स्वाभाविक स्वर-ज प्रवाह के कारण व्यावहारिक कार्यों के सामान्य अनुवाद की तुलना स्वरानुवाद अधिक उपयोगी पाया जाता है।

6] वाक्यानुवाद :- इसे लीकानुवाद भी कहा जा सकता है। इसमें मूल पाठ का वाक्यांश या लीका के साथ अनुवाद करने समय उसके प्रत्येक शब्द तथा पद की अनिश्चित व्याख्या भी करने है।



श्री लोकोमान्य निकल का गीता रहस्य इस प्रकार के अनुवाद का उदाहरण है। इस पर अनुवादक के व्यक्तित्व तथा चिन्तन की पर्याप्त मात्रा में छाया होती है।

7] पाननिर्वाद :- कभी कभी दो विभिन्न भाषों के बीच कोई व्यक्ति भाषा माध्यम बनता है और उनकी आवसी धारणा को अपने दो अथवा आधी भाषाओं के ज्ञान के कारण गुरंग ही एक-दूसरे के सम्मुख ही उनकी धारणा के अथवा असह-मान के मुद्दों से उन्हीं की भाषा में अनुवाद कर प्रस्तुत कर देता है। इस तरह के अनुवादक, आशु अनुवाद भी कहा जा सकता है। क्योंकि वह गुरंग किया जाता है।

8] रूपांतर :- मूल रचना को अपनी रूची के अनुसार रूपांतरित करना रूपांतरण है। आधिकार इसमें विद्यमान होना है। एक विद्या की रचना को कुछ मामूली परिवर्तनों के साथ दूसरी विद्या में परिवर्तित किया जाता है। जैसे किसी अन्य भाषा की कहानी का लोकोमान्य में रूपांतरित करके अनुवाद करना रूपांतरण - अनुवाद है। यह छाया पद के निकट-सा होता है।

9] भाषांतर :- यद्यपि अनुवाद और भाषांतर शब्द एक-दूसरे के अर्थ के रूप में प्रयुक्त होते हैं जबकी भाषांतर अनुवाद का एक भेद हो। जब स्त्री-म-भाषा की किसी कृति के फुरे अर्थ को बिना किसी परिवर्तन अथवा छटा-छटा के लक्ष्य भाषा में कह दिया जाता है। तब उसे भाषांतर कहने में एक सफल भाषांतर वही माना जाता है। जिसमें स्त्री भाषा में कही गयी बात लक्ष्य-भाषा में एक जैसी अभिव्यक्ति पानी है।

III]

15] Employee = कर्मचारी

16] Agency = आधीकरा।

17] Valuation = मूल्यांकन.

18] Act = आधीनियम.

19] Circular - परिपत्र.

IV]

परिवहन व्यवस्था एक देश की स्वतंत्र वाणिज्य. आर्थिक वृद्धि के लिए आवश्यक अंग है। सभी राष्ट्रों में रेल और महत्वपूर्ण व्यंजक हैं। भारत में रेल सेवा को भारत की योजना के उपयोग के लिए आरंभ किया गया था।



KLE Society's

# G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI

Department of Hindi

Certificate Code - BAHNC 1 -2019 -20



## Certificate

This is to Certify that Mr/Ms

Akshata Malage

of

B. Com II Sem

has Completed "Certificate Course in

Translation (English - Kannada to Hindi)" During The Year 2019 - 2020

  
Head of Department



  
Principal



K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-  
591237

Accredited at 'A' level by NAAC with CGPA 3.35  
(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)  
Website: [www.kleibnnpn.edu.in](http://www.kleibnnpn.edu.in) E-mail: [kleibnnpn@yahoo.co.in](mailto:kleibnnpn@yahoo.co.in) Ph.: 08338-220116

DATE -24/4/2019

## DEPARTMENT OF HINDI REPORT ON CERTIFICATE COURSE

Department of Hindi has organized 3 months Certificate course on translation. In this course students did translation from English/ Kannada to Hindi. for B.A., B.Sc., B.Com. Students of our College. This course helped the students to improve their writing skills as well as communication skills. During 2018-19 year 25 students were benefited. And this Certificate course classes conducted by Dr. M.D. Gurav

  
IQAC CO-ORDINATER  
IQAC Co-ordinator  
KLE's G. I. B. College, Nipani.

  
HOD  
Head  
Department of Hindi  
KLE's G. I. B. College, Nipani.

  
PRINCIPAL  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





II 5


KLE's

G.I.Bagewadi Arts, Science & Commerce College, Nipani

## Department of Commerce

### NOTICE

All the students of M.com III Semester are hereby requested to enroll your names for Certificate Course on Research Methodology on or before 16/08/2019.

  
Head of Department  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
Principal  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI






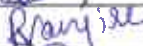

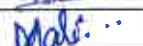








**K.L.E. Society's  
G. I. Bagewadi Arts, Science, & Commerce College, Nipani  
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**Department of Commerce**

**Enrollment List for Certification Course 2019-20**

**Title: Research Methodology**

**Class: M.Com III Sem**

Sl. No.	Reg. No	Name	Sign
1	MC181802	Aishwarya Chandure	
2	MC181804	Akshata Hiremath	
3	MC181805	Chaitali Sutar	
4	MC181806	Deepa Kadadevarmath	
5	MC181808	Pavankumar Patil	
6	MC181810	Priyanka Bommanale	
7	MC181811	Raghunath Patil	
8	MC181812	Rahul Vanjire	
9	MC181813	Ramesh Gidd	
10	MC181814	Rohit Havale	
11	MC181817	Sagar Mali	
12	MC181818	Sandhya Teli	
13	MC181820	Shivaraj Kambale	
14	MC181821	Shreya Avalakki	
15	MC181823	Sonali Kadam	
16	MC181824	Soumya Shetti	
17	MC181825	Tejaswini Patil	
18	MC181826	Vaishali Miraje	
19	MC181827	Varsha Kore	
20	MC181828	Vidyashree M	

  
**HOD Head**  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.



  
**PRINCIPAL**  
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G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

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DEPARTMENT OF COMMERCERCE

**Certificate Course on Research Methodology**

**Syllabus**

Sl.No.	Topics	Duration
01	Introduction Meaning, objectives and Limitations, types of research-identification and statement of the research problem, review of literature meaning, need and sources, research design.	10 hrs
02	Data Collection Primary and Secondary Sources, Sampling Methods, Types of Sampling- Sample Size, Sampling Error and Problems of Sampling, Tools of Data Collection .	10 hrs
03	Editing and Processing of Data Classification and Tabulation, Editing and Coding, Construction of Frequency Tables, Graphs , Charts , Diagrams.	05 hrs
04	Report Writing Types and Steps in Report Writing , Format of Research Report, Requirement of Good Report, Citation, Notes Appendices and Bibliography.	05hrs

  
HOD  
Dept. of Commerce  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.



  
(Sangeeta P Sansuddi)

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

KLE's  
G.I.Bagewadi Arts, Science & Commerce College, Nipani

Department of Commerce

**Certificate Course on Research Methodology**

**TIME - TABLE**

<b>Day</b>	<b>Time</b>	<b>Faculty</b>
Monday	3.00 - 4.00 pm	Prof. Sangeeta Sansuddi
Tuesday	3.00 - 4.00 pm	Prof. Sangeeta Sansuddi
Wednesday	3.00 - 4.00 pm	Prof. Sangeeta Sansuddi

**Duration: 30 Hours**



**K.L.E. Society's  
G. I. Bagewadi Arts, Science, & Commerce College, Nipani  
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**Department of Commerce**

**Marks List for Certification Course 2019-20**

Title: Research Methodology

Class: M.Com III Sem

Sl. No.	Reg. No	Name	Marks
1	MC181802	Aishwarya Chandure	45
2	MC181804	Akshata Hiremath	46
3	MC181805	Chaitali Sutar	42
4	MC181806	Deepa Kadadevarmath	41
5	MC181808	Pavankumar Patil	40
6	MC181810	Priyanka Bommanale	42
7	MC181811	Raghunath Patil	43
8	MC181812	Rahul Vanjire	48
9	MC181813	Ramesh Gidd	47
10	MC181814	Rohit Navale	45
11	MC181817	Sagar Mali	39
12	MC181818	Sandhya Teli	41
13	MC181820	Shivaraj Kambale	46
14	MC181821	Shreya Avalakki	48
15	MC181823	Sonali Kadam	40
16	MC181824	Soumya Shetti	44
17	MC181825	Tejaswini Patil	48
18	MC181826	Vaishali Miraje	40
19	MC181827	Varsha Kore	38
20	MC181828	Vidyashree M	41

  
**HOD**  
**Head**

Department of Commerce  
K.L.E's G. I. B. College, Nipani.



  
**PRINCIPAL**  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



**KLE'S  
G.LBAGEWADI ARTS, COMMERCE & SCIENCE COLLEGE, NIPANI**

**Certificate Course on Research Methodology**

**Duration : 2 Hours**

**Marks : 50**

**Answer any five of the following**

**(10\*5=50)**

1. Define Research. Explain types of Research Methods.
2. What do you mean by literature review? Explain the sources of literature review.
3. Briefly explain the types of samplings and its problems.
4. Discuss tools of data collection.
5. Explain how to edit and process data.
6. Briefly explain steps in report writing.
7. Explain the requirements of a good report.



K.L.E. Society's  
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*Department of Commerce*

# *Certificate*

This is to certify that Mr. / Ms. Akshata Hirezmath

of *M.com. III Semester* has successfully completed certificate course in "*Research Methodology*"  
during the year 2019-2020.

*For Pass*  
HOD



CONVENOR

*Signature*  
PRINCIPAL



K.L.E. Society's  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

**REPORT ON: Online Certificate Course on Research Methodology**

Name of the Department	Commerce					
Name of the Event Organized	Certificate Course					
Title of the Event	Research Methodology					
Date of the Event Organized	10 February 2020					
Name of the Convener	Prof. Sangeeta Sansuddi					
Participants	20					
No. of Participants	Total	20	Teachers	00	Students	20
Name of the Expert with Designation	Prof. Sangeeta Sansuddi, Lecturer					
Contact Number & Address of the Expert	+919663718444 Hudco Colony, Nipani					
Objectives of the Event	1. To pay attention to the most important dimension of Research i.e, Research Methodology. 2. To impart research skills to the beginners					
Outcome of the Event	Students developed in writing various research reports, research papers, articles,					
Photo Gallery						

  
IQAC Coordinator

**PRINCIPAL**

G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

  
HOD  
Head

Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
Principal

**PRINCIPAL**

G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



II 6



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Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116


Date: 24.12.2019

## Department of Commerce

### NOTICE

The Department is going to commence certificate course in Business Correspondence for the academic year 2019-20. Interested students of B.Com II Semester are hereby informed to enroll their names in the department on or before 1st January, 2020.

  
Convener

  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI





K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237

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Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

**Department of Commerce**

**Certificate Course in Business Correspondence**

**Enrollment Form - 2019-20**

To,

Head of the Department Commerce,

KLE's G.I. Bagewadi College, Nipani.


Application for the certificate course in Business Correspondence

**PARTICULARS OF APPLICANT**

1. Name : Asmita Mengane.
2. Class : B.Com II Semester
3. Address for Correspondence : App. Nipani Belagavi.
4. Contact No. : 7411293199
5. E-Mail : asmita.mengane7@gmail.com.

Date:



  
Signature of the Applicant





K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237

Accredited at 'A' level by NAAC with CGPA 3.35

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Website: [www.klegibnpn.edu.in](http://www.klegibnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

**Department of Commerce**

**Certificate Course in Business Correspondence**

**Enrollment Form - 2019-20**

To,

Head of the Department Commerce,

KLE's G.I. Bagewadi College, Nipani.


Application for the certificate course in Business Correspondence

**PARTICULARS OF APPLICANT**

1. Name : Miss. Anuska Rangde
2. Class : B. Com III Sem
3. Address for Correspondence : Nipani Tq. Nipani Dist. Belagavi  
Pin: 591237
4. Contact No. : 9945590236
5. E-Mail : anurangde99@gmail.com


Date:



  
Signature of the Applicant

**Certificate Course In Business Correspondence**  
**STUDENT LIST (2019-20)**

Sr.No	Student Name	Class
1	Aarushi Rangole	B.Com II Semester
2	Ankita Havale	"
3	Archana Patil	"
4	Asmita Mengane	"
5	Jyoti Puthane	"
6	Jyoti Subedar	"
7	Kajal Borade	"
8	Kaveri Borgalli	"
9	Kaveri Mangule	"
10	Kaveri Suryavanshi	"
11	Komal Gadkari	"
12	Omkar Patil	"
13	Padmavati Shiilepatil	"
14	Pooja Kesarkar	"
15	Pooja Shrivale	"
16	Revathi Naik	"
17	Ritika Palase	"
18	Roopali Patil	"
19	Rushikesh Patil	"
20	Shreya Khot	"
21	Shreya Upadhye	"
22	Shruti Diwanji	"
23	Shruti Kote	"
24	Sukanya Jamkhandi	"
25	Sumati Donage	"
26	Sunil Khot	"
27	Suparshawa Desai(Upadhye)	"
28	Swaroop Sutar	"
29	Swati Khot	"
30	Tejashri Chikale	"

  
Head of the Department  
Department of Commerce  
K.L.E's G. L. B. College, Nipani.



  
Principal  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

**KLE's**  
**G.I.Bagewadi Arts, Science & Commerce College, Nipani**  
**Department of Commerce**

**Certificate Course In Business Correspondence**

**Course Objectives**

**Introduction**

The ability to communicate effectively plays a major role in achieving career success. Technological advancements have increased the need for skilled communicators, and employers state that the application of acceptable communication skills is essential for a workforce to survive in a competitive, global environment. This course is designed to provide the student with those skills.

**Course Objectives**

1. Enable the student to recognize the relationship of effective communications skills to success in academic, work and social environments.
2. Develop both written and oral communication skills to produce clear, complete, accurate messages.
3. Understand message strategies and formats appropriate for professional communication situations.
4. Develop and apply critical thinking skills when determining solutions for communication-related problems.



**KLE's**  
**G.I.Bagewadi Arts Science & Commerce College, Nipani**  
**Department of Commerce**

**CERTIFICATE COURSE**  
**IN**  
**BUSINESS CORRESPONDENCE**

**Course Syllabus**

**Unit I**

**Introduction :** **5 Hours**  
Meaning & definition, need for business correspondence, functions of business correspondence.

**Unit II**

**Business Letters:** **5 Hours**  
Meaning & definition, essentials of a good business letter, physical properties of a good business letter, planning a business letter.

**Unit III**

**Structure & Layout of Business letter:** **10 Hours**  
Heading, Date, Reference, Subject, Inside address, Salutation, Body of Letter, Complimentary close, Signature, Enclosures, Post Script, Copy circulation. Layout – Block form, Semi block form, Indented form, Hanging indented form. Examples of business letters.

**Unit IV**

**Business Email Writing:** **10 Hours**  
Email or letter, General etiquette, Structure, Templates, Formatting, Greeting and Sign Off, Example Emails, Use the Correct Tone, Golden Rules of Email Writing.



**KLE's**  
**G.I.Bagewadi Arts, Science & Commerce College, Nipani**  
**Department of Commerce**

**Certificate Course**  
**In**  
**Business Correspondence**

**STAFF LIST**

1. Dr. B.M.Hiremath.
2. Prof. S.A.Deshpande.
3. Prof. Priyanka Kamate.

  
**Head of Department**  
**Department of Commerce**  
**KLE's G. I. B. College, Nipani.**



  
**Principal**  
**G.I. Bagewadi Arts, Science &**  
**Commerce College, NIPANI,**



KLE's  
G.I.Bagewadi Arts, Science & Commerce College, Nipani  
Department of Commerce

**Certificate Course In Business Correspondence**

**TIME - TABLE**

Day	Time	Faculty
Monday	3.00 - 4.00 pm	Prof. B.M.Hiremath
Tuesday	3.00 - 4.00 pm	Prof. Priyanka Kamate
Wednesday	3.00 - 4.00 pm	Prof. S.A.Deshpande
Thursday	4.00 - 5.00 pm	Prof. Priyanka Kamate / Prof. S.A.Deshpande

**Duration: Theory 30 Hours & Practical 10 Hours.**

**Work Load:**

1. Prof. B.M.Hiremath : Module - I ( 5 hours)
2. Prof. Priyanka Kamate : Module - II & III ( 12 hours )
3. Prof. S.A.Deshpande : Module - III & IV ( 13 hours )



**Department of Commerce**  
**Certificate Course In Business Correspondence**  
**Marks Sheet (2019-20)**

Sr.No	Student Name	Marks obtained
1	Aarushi Rangole	Ab
2	Ankita Havale	Ab
3	Archana Patil	Ab
4	Asmita Mengane	20
5	Jyoti Puthane	20
6	Jyoti Subedar	19
7	Kajal Borade	Ab
8	Kaveri Borgalli	19
9	Kaveri Mangule	Ab
10	Kaveri Suryavanshi	20
11	Komal Gadkari	20
12	Omkar Patil	Ab
13	Padmavati Shiilepatil	20
14	Pooja Kesarkar	Ab
15	Pooja Shivale	Ab
16	Revathi Naik	Ab
17	Ritika Palase	18
18	Roopali Patil	18
19	Rushikesh Patil	Ab
20	Shreya Khot	20
21	Shreya Upadhye	Ab
22	Shruti Diwanji	20
23	Shruti Kote	Ab
24	Sukanya Jamkhandi	Ab
25	Sumati Donage	Ab
26	Sunil Khot	Ab
27	Suparshawa Desai(Upadhye)	Ab
28	Swaroop Sutar	20
29	Swati Khot	Ab
30	Tejashri Chikale	Ab



  
**PRINCIPAL**  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

# KLES G.I. Bagewadi Arts, Science & Commerce College, Nipani

Department of Commerce Certificate Course On "Business Correspondence"  
Required

1. Name of the student \*

---

2. Class \*

*Mark only one oval.*

B.com II Sem

3. Mobile Number

---

4. E-mail \*

---

### I. Fill in the Blanks

5. 1) Business letters serve as a/an .....in case of dispute in business transactions. \*

*Mark only one oval.*

Evidence

Complaint



6. 2) It is .....for the businessmen to remember all facts without correspondence. \*

Mark only one oval.

- Possible  
 Impossible

7. 3) Business Letters build .....for a Businessman \*

Mark only one oval.

- Goodwill  
 Bad Name

8. 4) Business Letters are written to .....Information \*

Mark only one oval.

- Seek or Give  
 Avoid

9. 5) Business letter is the most .....mode of communication. \*

Mark only one oval.

- Inconvenient  
 Convenient

10. 6) The Complementary close must be in accordance with the ..... \*

Mark only one oval.

- Salutation  
 Subject



11. 7) Below the signature and name of the writer, his .....is also written \*

Mark only one oval.

Enclosures

Designation

12. 8) In the main part of the body of the letter.....is written \*

Mark only one oval.

Subject Matter

Signature

13. 9) Dear Sir is the form of..... \*

Mark only one oval.

Salutation

Closure

14. 10) The body of the letter is usually divided into .....Part(s). \*

Mark only one oval.

Three

Two

## II. Say True Or False

15. 1) Letter is a form of written communication. \*

Mark only one oval.

True

False





16. 2) Through business letter personal contact can be maintained between buyer and seller. \*

Mark only one oval.

True

False

17. 3) Business letters lead to decline the goodwill of the firm. \*

Mark only one oval.

True

False

18. 4) Letter is a convenient and economic mode of communication. \*

Mark only one oval.

True

False

19. 5) Business letters do not help in removing misunderstanding between buyer and seller. \*

Mark only one oval.

True

False



20. 6) By writing quotation letters, a buyer gets information about the prices of goods. \*

*Mark only one oval.*

True

False

21. 7) In business enquiry letter the writer cannot ask for sample of goods. \*

*Mark only one oval.*

True

False

22. 8) In enquiry letter the writer doesn't give information about the quantity of possible purchases. \*

*Mark only one oval.*

True

False

23. 9) The seller supplies the relevant information to the buyer through reply and quotation letter. \*

*Mark only one oval.*

True

False



24. 10) Letter written in response to business enquiry letter is called Quotation letter.

Mark only one oval.

True

False

This content is neither created nor endorsed by Google.

Google Forms



Name of the student	Class	Mobile Number	E-mail	1) Business	2) It is .....	3)Business	4)Business Let	5) Business le
Padmavati R Shilepatil 20	B.com II Sem	7899106627	patilpadmavati930@gmai	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Kaveri Irappa borgalli 19	B.com II Sem	8625904706	Kavyaborgalli5744@gami	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Shreya Mahadev Khot 20	B.com II Sem	9743147929	shreyakhot14@gmail.com	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Komal Gadakari 19	B.com II Sem	9481007500	gadakarikomai08@gmail.	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Asmita Anil Mengane 17	B.com II Sem	7411293199	asmitamengane7@gmail.	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Kaveri Sanjay Suryavanshi 20	B.com II Sem	8147481033	kaverisuryavanshi20@grr	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Shruti Jitendra Diwanji 19	B.com II Sem	7338482311	shrutidiwanji9686@gmail.	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Shruti Jitendra Diwanji 20	B.com II Sem	7338482311	shrutidiwanji9686@gmail.	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Ritika atul palase 18	B.com II Sem	7353712531	Ritikapalase@gmail.com	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Jyoti subhedar 19	B.com II Sem	7619225190	subhedarjyoti7@gmail.co	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Anagha Mohite 20	B.com II Sem	7204014057	managha151100@gmail.c	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Jyoti Rajendra Puthane 20	B.com II Sem	8904846988	Jyotiphutane2001@gmail	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Jyoti Rajendra Puthane 19	B.com II Sem	8904846988	Jyotiphutane2001@gmail	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Rutuja suresh powar 17	B.com II Sem	6360441486	rutujapowar3@gmail.com	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Rupali G patil 18	B.com II Sem	9035859009	rupalipatil19519@gmail.c	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Swaroopa S Sutar 20	B.com II Sem	6364608785	swaroopasutar1@gmail.c	Evidence	Impossible	Goodwill	Seek or Give	Convenient
Swaroopa S Sutar 20	B.com II Sem	6364608785	swaroopasutar1@gmail.c	Evidence	Impossible	Goodwill	Seek or Give	Convenient



6) The Con	7) Below the	8) In the main pa	9) Dear Sir	10) The	1) Letter	2) Through	3) Busine	4) Letter	5) Busin	6) By writ	7) In busin	8) In end	9) The s
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	TRUE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	TRUE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	TRUE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	TRUE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE
Salutation	Designation	Subject Matter	Salutation	Three	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE





10) Letter written in response to business enquiry letter is called Quotation letter.

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

FALSE

TRUE

TRUE





K.L.E. Society's

# G. I. Bagewadi Arts, Science & Commerce College, Nipani

College with Potential for Excellence

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

*Department of Commerce*

*Certificate*

This is to certify that Mr./ Ms. Ashmita Mengane  
of B.com II Sem has successfully completed Certificate Course  
in Business Correspondence during the year 2019 - 2020 & obtained Grade \_\_\_\_\_.

*For [Signature]*

Head of the Department



*[Signature]*

Principal



K.L.E. Society's  
**G.L. Bagewadi Arts, Science and Commerce College, Nipani-591237**

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

Department of Commerce  
**Certificate Course on Business Correspondence**

**Report (2019-20)**

The ability to communicate effectively plays a major role in achieving career success. Technological advancements have increased the need for skilled communicators, and employers state that the application of acceptable communication skills is essential for a workforce to survive in a competitive, global environment. To address and realize above needs Department of Commerce has formulated Certificate Course in "Business Correspondence" for the academic year 2019-20. Thirty students have actively enrolled for the course. The course consists of 30 hours theory and 10 hours of practical. Classes were conducted from 1st January, 2020 to 2nd March, 2020. After the completion of the course written test was held for 20 marks and certificates were issued to the students.

  
Convener



  
PRINCIPAL  
G.L. Bagewadi Arts, Science &  
Commerce College, NIPANI.

II 7



KLE Society's  
G.I. Bagewadi Arts, Science, Commerce Degree & P.G. College, Nipani 591237.  
District Belgavi, Karnataka.  
Re-Accredited at A level by NAAC with CGPA 3.35

DEPARTMENT OF ZOOLOGY

Application form for admission to certificate course in Vermitech for the year  
2019-2020.

To,  
HOD of Zoology  
K.L.E. Societys G.I. Bagewadi College, Nipani



PARTICULARS OF APPLICANT

1. Full name of the applicant: KAMARTAJ. M. KHANAPURE
2. Class: B.Sc VI Sem
3. Category: IB [MUSLIM]
4. Gender: FEMALE
5. Adress for correspondence: NEW LETEX COLONY NIPANI  
TAL - CHIKKODE DIST - BELGAUM
6. Contact No: 8792611312
7. E-mail ID: kamartaj.khanapure 789@gmail.com

Signature of Applicant





**KLE Society's**  
**G.I. Bagewadi Arts, Science, Commerce Degree & P.G. College, Nipani 591237.**  
**District Belgavi, Karnataka.**  
**Re-Accredited at A level by NAAC with CGPA 3.35**

**DEPARTMENT OF ZOOLOGY**

**Application form for admission to certificate course in Vermitech for the year  
2019-2020.**

To,  
HOD of Zoology  
K.L.E. Societys G.I. Bagewadi College, Nipani



**PARTICULARS OF APPLICANT**

1. Full name of the applicant: Anil. M. Bhingare
2. Class: BSc III<sup>rd</sup> year
3. Category: OBC IIA
4. Gender: Male
5. Adress for correspondence: A/p - Khadakalatt  
Tal - Chikkodi  
Dis - Belagavi
6. Contact No: 6360392324
7. E-mail ID: anilbhingare8494@gmail.com

  
Signature of Applicant







KLE Society's  
G.I. Bagewadi Arts, Science, Commerce Degree & P.G. College, Nipani 591237.  
District Belgavi, Karnataka.  
Re-Accredited at A level by NAAC with CGPA 3.35

DEPARTMENT OF ZOOLOGY

2019-2020

List of students for certificate course.

Sl.No	Name of the student	Signature
01	Abhinandan Kolhapure	
02	Abhishek Magadum	
03	Aishwarya Killedar	
04	Aishwarya Punde	
05	Akshay Magadum	
06	Anil Bhingare	
07	Chetana Belave	
08	Chinmayi Indl	
09	Daksha Patel	
10	Gurunatth Arekar	
11	Janhavi, Janavi Bhatle	
12	Kajal Bhoite	
13	Kamartaj Khanapure	
14	Kashinath Savantre	
15	Kenchappa Naslapure	
16	Pranjali Potdar	
17	Madhuri Bhivase	
18	Masum Panwale	
19	Meenakshi Gurav	
20	Megha Sumbad	
21	Nandini shirgave	
22	Neha kadakne	
23	Neha Patil	
24	Nikita Havale	
25	Nikita Magadum	
26	Parshwjeet Patil	
27	Pavan Paymalle payamalle	
28	Pooja Kesarkar	
29	Prajakta Bachane	



30	Prajakta Patil	Patil
31	Pratiksha Suryavanshi	
32	Praveen chougule	Chougule
33	Prithviraj Naraynkar	
34	Priyanka Palkar	Palkar
35	Rachana Tandale	Tandale
36	Ramizraja Makandar	Makandar
37	Rohini Tharapatti	Tharapatti
38	Rutuja Patil	Patil
39	Sabeel Makandar	Makandar
40	Sachin Badkar	Badkar
41	Sameeksha Gebise	Gebise
42	Sana Soudagar	Soudagar
43	Saniya Awate	Awate
44	Sanjeevani Hasure	Hasure
45	Sanket Jadhav	Jadhav
46	Santosh Adake	Adake
47	Sayyam Havale	Havale
48	Seema Dattawade	Dattawade
49	Shahida Desai	Desai
50	Shubham Kodne	Kodne
51	Soujanya kamate	Kamate
52	Sourabh Pujari	Pujari
53	Sumeet Chougule	Chougule
54	Swati Tawadare	Tawadare
55	Umesh Pujari	Pujari
56	Yogesh Pujari	Pujari
57	Zainabi Langote	Langote
58	Rohan Manjarekar	Manjarekar

*[Signature]*  
Head

Department of Zoology  
K.L.E's G. I. B. College, Nipani

*[Signature]*  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



**K.L.E Society's**  
**G.I. Bagewadi Arts, Science, Commerce Degree & P.G. College, Nipani 591237.**  
**District Belagavi, Karnataka.**  
**Re-Accredited at A level by NAAC with CGPA 3.35**

**DEPARTMENT OF ZOOLOGY**

**CERTIFICATE COURSE IN VERMITECH**

**1. Objectives**

In the present context, the award of mere basic degree is not ensuring the outgoing students any sort of confidence in employment. Many deserved and meritorious wards are incapable of pursuing higher studies. The high fee structure on one hand makes it unaffordable and on the other side the available limited number of seats creates the barrier.

This certificate course aims to harvest the potential skill in the students, who can complete the certificate course along with their regular study. The stakeholders are mainly coming from rural and farming background and have inert skill. Thus the course is designed to skill based training.

**2. Course duration**

- I. 3 Months January to March
- II. 2 Theory classes/Week
- III. 1 practical/Week

**3. Budget**

**4. Expenditure:**

**6. Recurring Expenses**

1. Maintenance of the Demo plant- Rs 5000.00

**Justification**

1. The intake is expected to increase in the coming years
2. The vermicompost output increase in the subsequent years generates the revenue to match the expenditure.

  
**Head**  
Department of Zoology  
K.L.E's G. I. B. College, Nipani



  
**PRINCIPAL**  
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Commerce College, NIPANI.

# Syllabus for Vermitech

## Thoery

1. Introduction	01 hr
2. Types of Vermitech-Pit culture and Pot culture	05 hr
3. Types of earthworms and species of earthworms	04 hr
4. Vermicompost	02 hr
5. Vermiwash	02 hr
6. Uses of Vermiculture	02 hr
7. Role of Earthworms	03 hr

## Practical

1. Construction & Maintance of Demo plant	02 hr
2. Earthworm Species	02 hr
3. Pit Culture	01 hr
4. Pot Culture	01 hr

  
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**District Belagavi, Karnataka.**

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**DEPARTMENT OF ZOOLOGY**

**2019-2020**

**The following staff members are going to conduct classes for Certificate Course  
in Vermitech.**

- 1. Dr.Smt.V.R.Naik**
- 2. Smt.S.M.Hegade**





KLE Society's

G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI

Time Table

Year: 2019 - 2020 (Certificate Course)



Days	1	2		3	4	5		6	7	8	9
Time	8.15 to 9.15	9.15 to 10.15		10.30 to 11.30	11.30 to 12.30	12.30 to 1.30		2.00 to 3.00	3.00 to 4.00	4.00 to 5.00	5.00 to 6.00
Mon											
Tues	B.Sc III Yr SMH										
Wed											B.Sc III Yr VRN
Thu											
Fri											
Sat											Practical B.Sc III Yr(VRN+SMH)

HOD

STAFF MEMBER

KLE Society's  
G.I.Bagewadi Arts, Science, Commerce Degree & P.G.College, Nipani 591237.  
District Belagavi, Karnataka.  
Re-Accredited at A level by NAAC with CGPA 3.35

DEPARTMENT OF ZOOLOGY

2019-2020

Marks of the certificate course

<u>Sl.No</u>	<u>Name of the student</u>	<u>Marks</u>
01	Abhinandan Kolhapure	<u>10</u>
02	Abhishek Magadum	<u>12</u>
03	Aishwarya Killedar	<u>15</u>
04	Aishwarya Punde	<u>15</u>
05	Akshay Magadum	<u>18</u>
06	Anil Bhingare	<u>15</u>
07	Chetana Belave	<u>12</u>
08	Chinmayi Indi	<u>20</u>
09	Daksha Patel	<u>20</u>
10	Gurunatth Arekar	<u>20</u>
11	Janavi Bhatle	<u>15</u>
12	Kajal Bhoite	<u>15</u>
13	Kamartaj Khanapure	<u>18</u>
14	Kashinath Savantre	<u>17</u>
15	Kenchappa Naslapure	<u>16</u>
16	Pranjali Potdar	<u>14</u>
17	Madhuri Bhivase	<u>18</u>
18	Masum Panwale	<u>16</u>
19	Meenakshi Gurav	<u>20</u>
20	Megha Sumbad	<u>18</u>
21	Nandini shirgave	<u>15</u>
22	Neha kadakne	<u>16</u>
23	Neha Patil	<u>18</u>
24	Nikita Havale	<u>20</u>
25	Nikita Magadum	<u>18</u>
26	Parshwjeet Patil	<u>19</u>
27	Pavan Paymalle	<u>17</u>
28	Pooja Kesarkar	<u>14</u>
29	Prajakta Bachane	<u>16</u>
30	Prajakta Patil	<u>13</u>
31	Pratiksha Suryavanshi	<u>12</u>
32	Praveen chougule	<u>20</u>



33	Prithviraj Naraynkar	<u>17</u>
34	Priyanka Palkar	<u>18</u>
35	Rachana Tandale	<u>19</u>
36	Ramizraja Makandar	<u>16</u>
37	Rohini Tharapatti	<u>14</u>
38	Rutuja Patil	<u>12</u>
39	Sabeel Makandar	<u>10</u>
40	Sachin Badkar	<u>18</u>
41	Sameeksha Gebise	<u>18</u>
42	Sana Soudagar	<u>19</u>
43	Saniya Awate	<u>16</u>
44	Sanjeevani Hasure	<u>20</u>
45	Sanket Jadhav	<u>20</u>
46	Santosh Adake	<u>14</u>
47	Sayyam Havale	<u>17</u>
48	Seema Dattawade	<u>18</u>
49	Shahida Desai	<u>19</u>
50	Shubham Kodne	<u>14</u>
51	Soujanya kamate	<u>17</u>
52	Sourabh Pujari	<u>16</u>
53	Sumeet Chougule	<u>12</u>
54	Swati Tawadare	<u>13</u>
55	Umesh Pujari	<u>14</u>
56	Yogesh Pujari	<u>17</u>
57	Zainabi Langote	<u>18</u>
58	Rohan Manjarekar	<u>11</u>



**Head**

Department of Zoology  
K.L.E's G. I. B. College, Nipani



**PRINCIPAL**

G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

**K.L.E. Society's**  
**G.I.Bagewadi Arts, Science, Commerce and P.G. college Nipani**  
**Internal Test 2019-2020**

**Subject: Zoology**  
**Class- B.Sc VI Sem**

**Certificate course-Vermitech**

**Max.marks-20**

---

**Q.I answer the following questions.**

**10X2=20**

- 1 Explain Pit culture.
2. Explain Pot culture.



19/09

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NIPANI - 591 237.



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College with Potential for Excellence



EXAMINATION

Class : B8C VIIth

Subject : Zoology paper - 1

Roll No. : 117

Date : 15-03-2019

Marks Scored :

Test :

Signature of Valuer

Signature of the Invigilator with date

Q NOT Explain pit and pot culture of earthworm species.

1) small scale or indoor vermiculture & pot culture.

2) small scale or indoor vermiculture +

This is the method indoor of vermiculture practised in college under laboratory conditions as a part of the project-work it involves the following stages namely, collection of earth worms, preparation of compost bedding degradation in inoculation of worms and harvesting.

1) collection of earthworms - The collection of earth worms involves the selection of right type of earth worms for rearing based on their niche (habitat and way the animal lives) they have been classified into three types namely epigeic, endogeic and anecic.

2) preparation of compost bedding

The compost bedding is the material in which the earth worms are grown it is prepared in the following manner

(a) A large earthen flower pot is taken and the hole at the bottom is plugged with a piece of gunny bag. The base of the pot is also covered by moist gunny bag.

(b) over the gunny bag the bedding material is spread generally any of the following material like coir of coconut hay rice husk or saw dust could be used as bedding.

(c) Once the bedding material is prepared the feeding material has to be collected. The feeding material could be organic waste like leaves, vegetable waste, waste from the canteen, etc. there are two organic waste like leaves vegetable waste waste from the earth worms to the 3:2:1 content



(d) The entire mixture is kept moist by sprinkling care should be taken as to maintain adequate moisture of about 80-40%. This could be tested by palm test in this when a handful of mixture is squeezed water should not trickle down from the mixture.

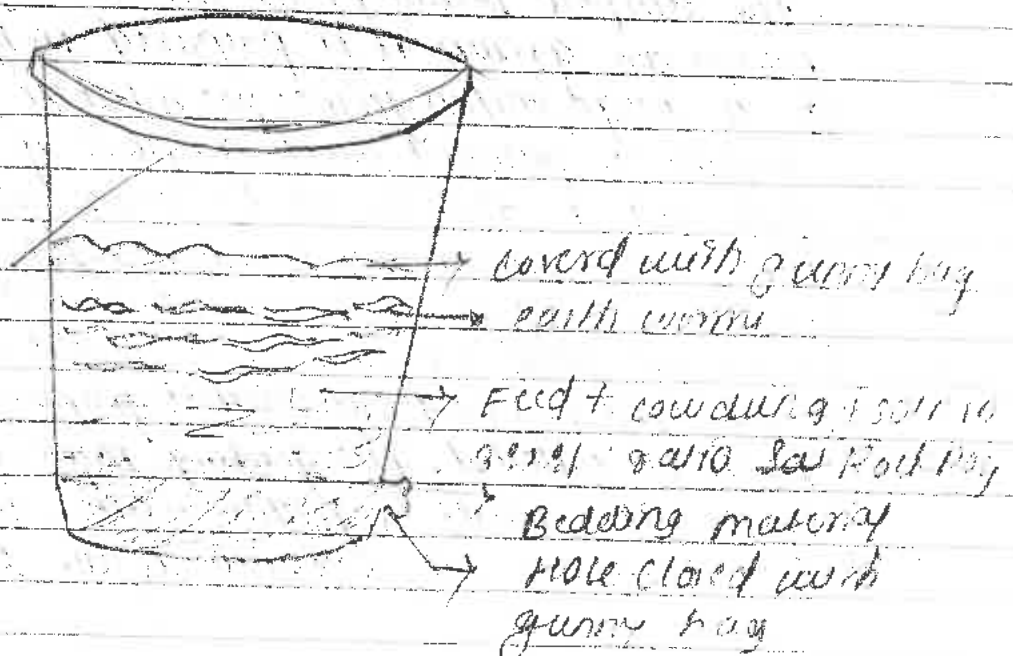
(e) The favorable temperature of worm bed is between 25-35° through they are capable of withstanding temperature fluctuations. The pH has to be maintained around 6.8-7.4 to maintain withstanding temperature fluctuations. The pH adequate pH and to bring acidity a little of lime/dolomite could be added to the compost bed.

(3) Pre-processing for micro organism - primary degradation is the process decomposition of compost bedding by micro organism.

→ As the action of micro organism continue the mixture has to be upturned the mixture has to be upturned in order to prevent foul smell due to anaerobic respiration. The contents is covered by old moist gunny bag.

→ Care should be taken to keep the pot well protected, shady elevated position as to prevent the intervention of ants and other organism.

→ pre-processing takes about 15-20 days during which the micro organism present in the mixture decompose the organic waste.





④ Inoculation or Introduction of earth worms for their function

- 1) Here about 15-20 mature epigeic earthworms are introduced in inoculated into the preprocessed material the content is carefully covered with moist gunny bag. The worms now feed on the organic matter. The organic matter gets mixed with their intestinal content and is subjected as to digestion. The digested matter gets absorbed while the undigested material passes out as mud pellets called worm cast or vermicompost.
- 2) Care has to be taken to maintain moisture by regular sprinkling and upturning of the material at least once in a week.
- 3) entire process of vermicompositing may require about 2-3 months.

⑤ Harvesting

- 1) Harvesting is the process of collection of vermicompost - when the vermicompost is ready for use the top layer appears brownish in colour with granular appearance watering should be stopped. The compost the worms to move into the lower end of the vermibed.
- 2) The compost should be gently scraped and collected from top layer. The collected compost is then stocked on the ground under shade or could be packed in small plastic bags for commercial use.
- 3) Once the compost is collected from the top layer the feed material is again reinstated and the culture process is reestablished.

\* Large scale outdoor vermiculture

- The earth worms are generally spotted in garden soil in shady spots. If an handful of fresh cowdung is buried in the selected area. it acts as bait to attract worms.
- The entire selected area has to be covered with an old jute cloth or bag if has to be kept moist by watering regularly. in about ten-fifteen days time both epigeic and anecic worms may be observed in that place.

→ The worms have to be transferred with some quantity of the native soil. The native soil ensures survival of the worms.

## ② Preparation of compost bedding

→ The site of compost bed preferably be in an elevated area with shade the prevents water stagnation in pits during rains. The pit should not be more than 3' in height and 3' in width where the length could be of any extent.

→ The compost-bed should be prepared in the following manner first a layer of broken hairs be placed to ensure proper drainage, above this a layer of loamy soil should be spread up to 15 to 16cm the layer either moistened.

## ③ Inoculation of earthworms

→ pH of the material should be between 6.8 - 7.5 and the optimum temperature required is 25-35°C though they are able to bear temperature variation to a great extent.

→ The worms feed on the organic matter. The organic matter in their digestive system undigested material passes out as mud pellets called worm casts. The worm cast thus formed forms the vermicompost.

→ Irrigation is continued and is stopped on the forty second day this compels the worms to move into the lower end of the vermicompost bed and facilitate harvesting.

## ④ Harvesting -

→ Harvesting is the process of collecting the vermicompost when the vermicompost is ready for use the top layer appears brownish in colour with granular appearance.

→ The compost could be made to pass through a galvanized mesh or sieve of 5mm. The worms obtained during sieving could be transferred back to the culture.

→ The collected vermicompost be stocked in a shady area and marketable quantity can be packed in the plastic bags. Vermicompost is the faecal matter excreted by the earth worm in the form of castings it is in the form of soft, spongy dark brown or black colour substance commonly called black gold organic farm



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**EXAMINATION**

Class : Bsc VI<sup>th</sup> sem      Subject : Vermi-culture  
 Roll No. : 126      Date :  
 Marks Scored :       Test :  
 Signature of Valuer      Signature of the Invigilator with date

Pit culture

This method is practised on a large scale. in the out doors. It involves the following stages

1. Collection of earthworms
- \* The earthworms are generally spotted in garden soil in shady spot. If an handful of fresh cowdung is buried in the selected area, it acts as a bait to attract worms.
- \* The entire selected area has to be covered with an old jute cloth or bag. It has to be kept moist by watering regularly. In about ten to fifteen days time, both species of anecic worms may be observed in that place.
- \* The worms have to be transferred with some quantity of the native soil. The native soil ensures survival of the worms.

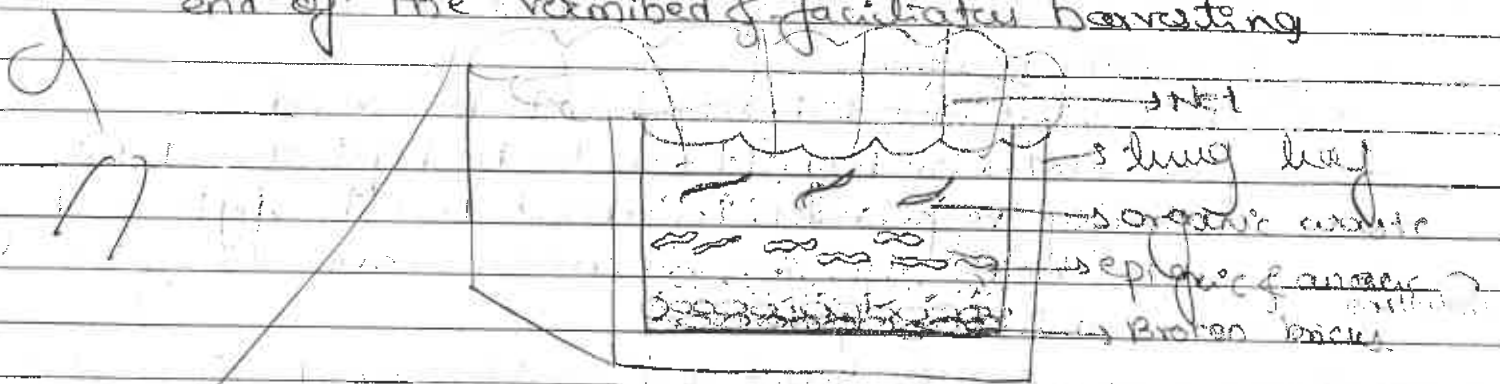
2) Preparation of compost bedding

- \* The site of compost bed preferably, should be in an elevated area with shade. This prevent water stagnation in pits during rain. The pit should not be more than 3' in height & 3' in width, while the length could be of any extent.
- \* The compost bed should be prepared in the following manner, first a layer of broken bricks has to be placed as basal layer. Over this, a layer of sand to a thickness of at least 2.5-7.5cm has to be placed to ensure proper drainage. Above this, a layer of loamy soil should be spread up 15-16cm. The layers are then

maintained

### 3) Inoculation of the worms

- \* Inoculation is the process of introducing the worms into the compost bedding. Once this bedding is prepared about 50 to 100 locally collected epigeic earthworms could be inoculated.
- \* After inoculation, small lumps of cow dung are scattered over the soil.
- \* The entire box to be kept moist by watering. By the end of the month juvenile earthworms will be noticed.
- \* The optimum temperature required is 25-35°C.
- \* Watering is continued & is stopped on the forty second day. This compels the worms to move into the lower end of the vermicompost for facilitating harvesting.



### 3) Harvesting

- \* Harvesting is the process of collecting the vermicompost when the vermicompost is ready for use. The top layer appears brownish in color with granular appearance.
- \* The compost could then be made to pass through a galvanized mesh or sieve of 3mm. The worms obtained during sieving could be transferred back to the culture.



## II Pot culture.

This is a simple indoor method of vermiculture practiced on a small scale.

### 1) Collection of earthworms.

The collection of earthworms involves the selection of the right type of earthworm for rearing. Based on their niche, they have been classified into 3 types namely epigeic, endogeic & anecic.

### 2) Preparation of compost bedding.

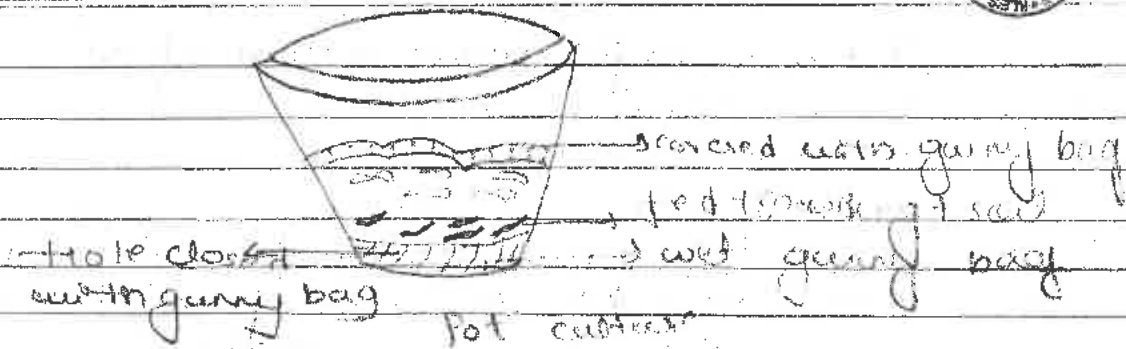
The compost bedding is the material in which the earth worms are grown. It is prepared in following manner.

- \* A large earthen flower pot is taken & the hole at the bottom is plugged with a piece of gunny bag.
- \* The finely cut organic waste is next mixed with coedung & common garden soil in the ratio 8:2:1 in order to increase the process of biodegradation 5% rock phosphate is mixed to the above content.
- \* The entire mixture is kept moist by regular sprinkling of H<sub>2</sub>O. Care should be taken as to maintain adequate moisture of about 80 to 90%.

### 3) Pre-processing for primary degradation.

Primary degradation is the process of decomposition of compost bedding by micro-organisms.

- \* As the action of micro-organisms continue the mixture has to be kept moist in order to prevent foul smell due to anaerobic respiration. The content is covered by old moist gunny bag.
- \* The processing takes about 15-20 days, during which the micro-organisms present in the mixture decompose the organic waste.



4) Inoculation or Introduction of worms for their action  
Inoculation is the process of introducing the worms into the bedding material.

- \* Here about 15-20 mature epigeic earthworm are introduced or inoculated into the processed material. The content is carefully covered with moist gunny bag. The worms now feed on the organic matter. The digested matter gets absorbed while the undigested material passes out as moist pellets called worm cast or vermicompost.

5) Harvesting

- \* Harvesting is the process of collection of vermicompost. When the vermicompost is ready for use, the top layer appears brownish in colour with granular appearance. Watering should then be stopped. This compels the worms to move into the lower part of the vermi bed.

- \* The compost should be gently scraped or collected from top layers. The collected compost is then stocked on the ground under shade or could be packed in the small plastic bags for commercial use.

Once the compost is collected from the top layers, the feed material is again reinstated & the culture process is re-established.



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## EXAMINATION

Class : Bsc VI<sup>th</sup> sem

Subject : Vermiculture

Roll No. : 95

Date :

Marks Scored : 

Test :

Signature of Valuer

Signature of the Invigilator with date

## PPT culture

This method is practised on a large scale. In the out doors. It involves the following stages.

## 1. Collection of earthworms

- \* The earth worms are generally spotted in garden soil in shady spots. If a handful of fresh cow dung is buried in the selected area, it acts as a bait to attract worms.
- \* The entire selected area has to be covered with an old jute cloth or bag. It has to be kept moist by watering regularly. In about ten to fifteen days time, both epigeic and anecic worms may be observed in that place.
- \* The worms have to be transferred with some quantity of the native soil. The native soil ensures survival of the worms.

## 2. Preparation of compost bedding-

- \* The site of compost bed preferably, should be in an elevated area with shade. This prevents water stagnation in pits during rains. The pit should not be more than 3' in height & 3' in width, while the length could be of any extent.
- \* The compost bed should be prepared in the following manner. First, a layer of broken bricks has to be placed as basal layer. Over this, a layer of sand to a thickness of at least 6.5-7.5 cm has to be placed to ensure proper drainage. Above this, a layer of loamy soil should be spread up to 15-16cm. The layers are then moistened.

### 3 Inoculation of the worms

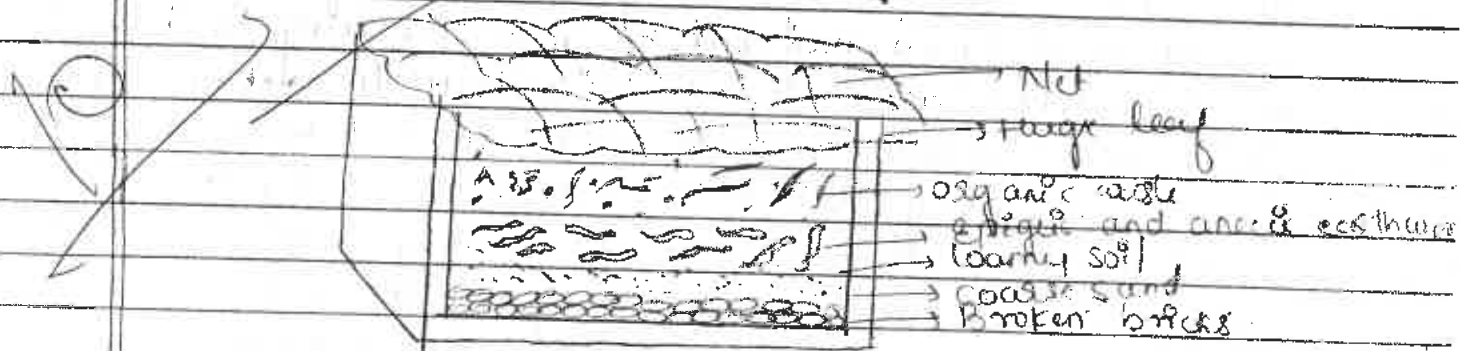
\* Inoculation is the process of introducing the worms into the compost bedding. Once this bedding is prepared about 80 to 100 locally collected epigeic and anecic earthworms could be inoculated.

\* After inoculation, small lumps of cow dung are scattered over the soil.

\* The entire has to be kept moist by watering. By the end of the month juvenile earthworms will be noticed.

\* The optimum temperature required is  $25-35^{\circ}\text{C}$ .

\* Watering is continued and is stopped on the forty-second day. This compels the worms to move into the lower end of the vermicompost and facilitates harvesting.



### 5) Harvesting

\* Harvesting is the process of collection the vermicompost. When the vermicompost is ready for use, the top layer appears brownish in colour with granular appearance.

\* The compost could then be made to pass through a galvanized mesh or sieve of 8mm. The worms obtained during sieving could be transferred back to the culture.

\* The collected vermicompost can be stocked in a shady area and marketable quantity can be packed in plastic bags.



II

## Pot culture

This is a simple indoor method of vermiculture practiced on a small scale.

### 1) Collection of earthworms

The collection of earth worms involves the selection of the right type of earthworm for rearing. Based on their niche they have been classified into 3 types, namely epigeic, endogeic and anecic.

### 2) Preparation of compost bedding

The compost bedding is the material in which the earth worms are grown. It is prepared in following manner.

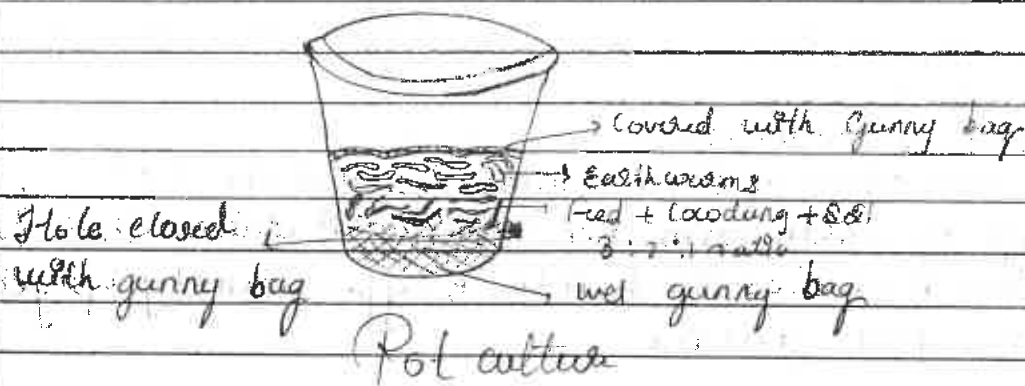
- \* A large earthen flower pot is taken & the hole at the bottom is plugged with a piece of gunny bag. The base of the pot is also covered by a moist gunny bag.
- \* The finely cut organic waste is next mixed with cow dung & common garden soil in the ratio 3:2:1 in order to increase the process of bio degradation 5% rock phosphate is mixed to the above content.
- \* The entire mixture is kept moist by regular sprinkling of  $H_2O$ . Care should be taken as to maintain adequate moisture of about 30 to 40%.
- \* The pH has to be around 6.8-7.4. To maintain adequate pH & to bring down acidity, a little of lime drops could be added to the compost bed.

### 3) Pre processing for primary degradation

Primary degradation is the process of decomposition of compost bedding by micro-organisms.

- \* As the action of micro-organisms continue, the mixture has to be captured in order to prevent foul smell due to anaerobic respiration. The content is covered by old, moist gunny bag.
- \* Pre processing takes about 15-20 days, during which the micro-organisms present in the mixture decompose the organic waste.





4) Inoculation or Introduction of worms for their action:  
Inoculation is the process of introducing the worms into the bedding material.

\* Here, about 15-20 mature epigeic earthworms are introduced or inoculated into the processed material. The content is carefully covered with moist gunny bag. The worms now feed on the organic matter. The digested matter gets absorbed while the undigested material passes out as mud pellets called worm casts or vermicompost.

\* Care has to be taken in maintain by regular sprinkling & upturning of the material at least once in a week.

5) Harvesting

Harvesting is the process of collection of vermicompost.

\* When the vermicompost is ready for use, the top layer appear brownish in colour with granular appearance. Harvesting should then be stopped. This compels the worms to move into the lower part of the vermi-bed.

\* The compost should be gently scraped & collected from top layers. The collected compost is then stocked on the ground under shade or could be packed in small plastic bags for commercial use.

Once the compost is collected from the top layers, the feed material is again re-started & the culture process is re-established.

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College with Potential for Excellence



## EXAMINATION

Class : B.Sc VI sem

Subject : Zoology (Vermiculture)

Roll No. : 125

Date :

Marks Scored : 

Test :

Signature of Valuer

Signature of the Invigilator with date

1) Pot culture :-

This is a simple indoor method of vermiculture practiced on a small scale. It could also be practised in colleges under laboratory conditions as a part of the project work. It involves the following stages, namely, collection of earth worms, preparation of compost bedding, primary degradation, inoculation of worms and harvesting.

\* Collection of Earthworms :-

The collection of earth worms involves the selection of the right type of earthworm for rearing. Based on their niche they have been classified into three types namely, epigeic and anecic.

Of these three varieties of earthworms, epigeic and anecic have been generally used. Several species of epigeic or decomposer worms occur naturally in our soil. Some of the domesticated epigeic earth worms used for culturing are

\* *Eudellus eugeniae* - African night crawler.

\* *Eisenia fetida* - Red worm.

\* *Pectonyx excavatus* - Oriental local varieties are *Lampito* *mauriti*, *Draoida* *willis* etc.

2) Preparation of compost bedding

The compost bedding is the material in which the earth worms are grown. It is prepared in the following manner.

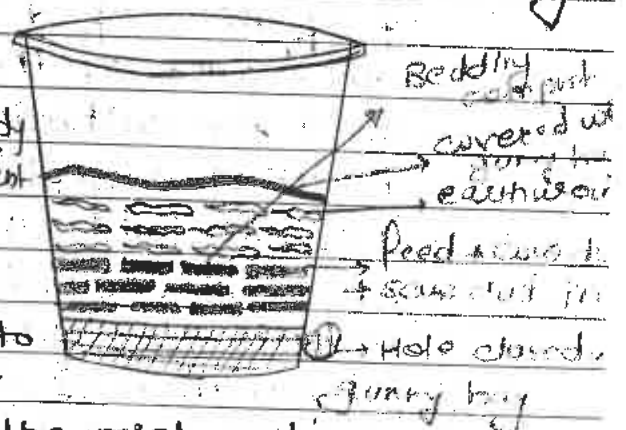
\* A large earthen flower pot is taken and the hole at the bottom is plugged with a piece of gunny bag. The base of the pot is also covered by

- \* over this gunny bag the bedding material is spread. Generally any of the following material like core of coconut hay, rice husk or saw dust could be used as bedding material.
- \* once the bedding material is prepared, the feeding material has to be collected. The leading material could be organic waste like leaves, vegetable waste, waste from the canteen etc. These are cut into small pieces in order to increase the feeding efficiency of earthworms.
- \* The finally cut organic waste is next mixed with cow dung and common garden soil in the ratio 3:2:1 in order to increase the process of bio degradation etc. rocks phosphate is mixed to the above content.
- \* The entire mixture is kept moist by regular sprinkling of water. Care should be taken as to maintain adequate moisture of about 30 to 40%.

3) Pre processing for primary degradation  
 Primary degradation is the process of decomposition of compost bedding by microorganisms.

- \* As the action of microorganisms continues, the mixture has to be upturned in order to prevent foul smell due to anaerobic respiration. The content is covered by a moist gunny bag.

- \* Care should be taken to keep the pot in well protected shady elevated position so as to prevent the intervention of ants and other organisms.



- \* Pre processing takes about 15 to 20 days during which the microorganisms present in the mixture decompose the organic waste.

4) Inoculation or introduction of worms for their action  
 \* Here about 15 to 20 mature epigeic earthworms are introduced or inoculated into the pre processed material.



- \* Care has to be taken to maintain moisture by regular sprinkling and upturning of the material at least once in a week.
- \* Entire process of vermicomposting may require about 2-3 months.

### 5) Harvesting

- \* When the vermicompost is ready for use, the top layer appears. The collected top layers. This compels the worms to move into the lower exit of the vermicompost. Once the compost is collected from the top layers, the feed material is again reinstated & the culture process is re-established.

### 6) Pit culture :-

This method is practised on a large scale in the out doors. It involves the following stages.

#### 1) Collection of earthworms.

- \* The earthworms are generally spotted in garden soil in shade. If an handful of fresh cowdung is buried in the selected area, it acts as bait to attract worms.
- \* Worms have to be transferred with some quantity of the native soil. The native soil ensures survival of the worms.

#### 2) Preparation of compost bedding

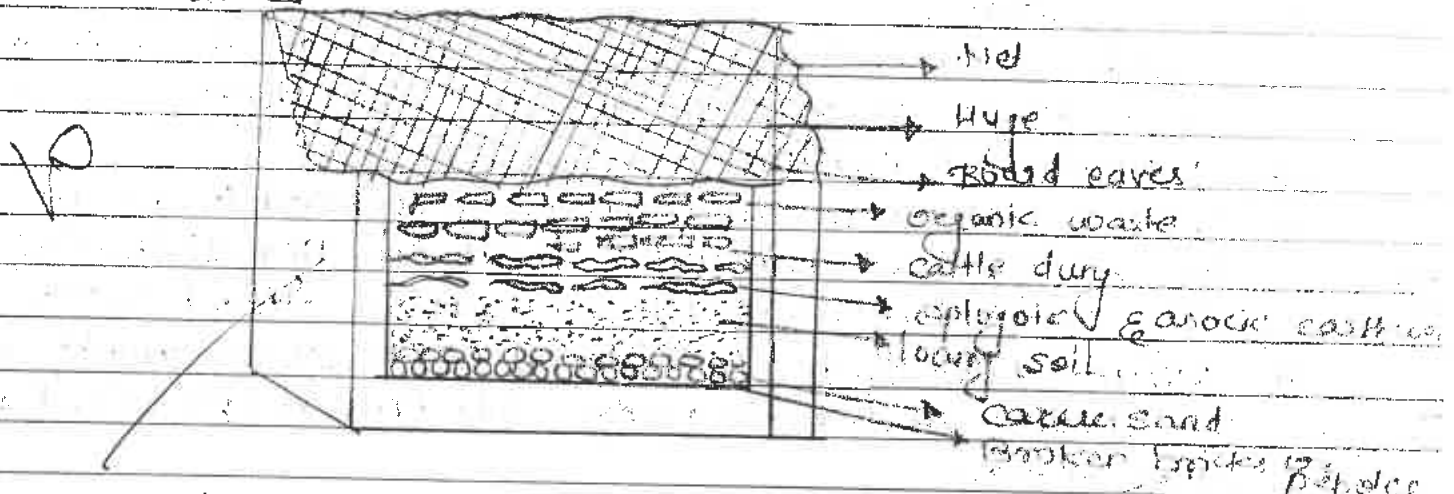
- \* The site of compost bed perfectly, should be in an elevated area with shade. This prevent and water stagnation in pits during rains. The pit should not be more than 3' in height & 3' in width, while the length could be of any extent.
- \* The compost bed should be prepared in the following manner.

First compost layer of broken bricks has to be placed as a basal layer. Over this, a layer of sand to a thickness of at least 6.5 to 7.5 cm has to be placed to ensure proper drainage. Above this a layer of loam & soil for should be spread up to 15-18 cm. The

layers are then moistened.

5) Inoculation of the worms

- \* Inoculation is the process of introducing the worms into the compost bedding. Once the bedding is prepared about 80 to 100 locally collected epigeic and anecic earthworms could be inoculated.
- \* After inoculation, small lumps of cow dung are scattered over the soil. The entire unit has to be kept moist by spraying water so as to maintain the moisture content between 80 to 40%. It has to be covered entirely by brown-d leaves or by coconut leaves or old jute bags. This prevents birds from disturbing the vermicbed.
- \* The entire unit has to be kept moist by watering. By the end of the month juvenile, etc earthworms will be noticed.



- \* The worms feed on organic matter. The organic matter in their digestive system get mixed with intestinal contents. The digested matter gets absorbed while the undigested material passes out as mud.

5) Harvesting :-

- \* Harvesting is the process of collection. The vermicompost when the vermicompost is ready for use the top layer appear brownish in colour with granular appearance.
- \* The compost could then be made to pass through a galvanized mesh or sieve of 8mm. The worms obtained during sieving could be transferred back to the culture.
- \* The collected vermicompost can be stocked in a shady area & quantity can be packed in plastic bags.





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**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI**

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# Certificate

DEPARTMENT OF ZOOLOGY

This is to certify that Mr./Miss/ Kamantaj Khanapur  
of B.sc VI Semester has successfully completed a certificate course in

**Vermitech** during the year 2019-20

*ky*

Head  
Department of Zoology



*eyr*  
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K.L.E. Society's



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Website: WWW.Klegibnpn.edu.in E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph: 08338-220116

### REPORT ON : CERTIFICATE COURSE ON VERMITECH

Name of the Department	Zoology
Name of the Event Organized	Certificate course
Title of the Event	Vermiculture
Date of the Event Organized	Jan-March(2019-20)
Name of the Convener	Dr.Smt.V.R.Naik
Participants	60
No. of Participants	Total 62 Teachers 02 Students 60
Name of the Expert with Designation	Miss.S.M.Hegade.Assistant prof
Contact Number & Address of the Expert	Mob.No-9008396800
Objectives of the Event	Composting organic waste into valuable organic fertilizer by action of earthworms.
Outcome of the Event	Effective ecofriendly cheap & easy method of recycling by bio degradable waste using selected species of earthworms.
Photo Gallery	
 Species of Earthworms.	 Vermicompost unit.

As 

HOD

HOD

Department of Zoology  
G.I. Bagewadi, NIPANI



IQAC Co-ordinator  
IQAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.



  
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Ph.: 08338-220116

## DEPARTMENT OF BOTANY

Ref.- GIBN/Bot/CCBot 2/FN-1/2019-20

Date:

### NOTICE

**“Food Processing and Nutrition”** classes will commence in the month of March 2020. Students can enroll their names to Smt. S. S. Sunnal, Department of Botany on or before **20<sup>th</sup> February 2020**.

  
HOD

HEAD

Department of Botany  
G. I. Bagewadi College, Nipani.



  
PRINCIPAL

Principal,  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

**Certificate course in Food Processing and Nutrition**

**List of students enrolled for Certificate Course 2019-20**

Sl.No	Roll.No	Name
1	113	Daksha Patel
2	121	Masum Panawale
3	122	Meenakshi Gurav
4	123	Megha Sumbad
5	124	Nandini Shiraganve
6	125	Neha Kadakane
7	126	Neha Patil
8	131	Pooja Kesarkar
9	140	Rachana Tandale
10	142	Rohini Tharapatti
11	143	Rutuja Patil
12	146	Samiksha Gibise
13	148	Saniya Awate
14	149	Sanjeevini Hasure
15	153	Seema Datawade
16	154	Shahida Desai
17	156	Soujanya Kamate
18	159	Swati Tawadare
19	162	Zainabi Langoti



  
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Ph.: 08338-220116

## DEPARTMENT OF BOTANY

### SYLLABUS FOR CERTIFICATE COURSE IN FOOD PROCESSING AND NUTRITION

UNIT I. Introduction, importance and scope of food and nutrition. 02 hrs

UNIT II . Food Science: Food, function, food groups, nutrient compositions.

Cereals, Pulses, Vegetables and Fruits, Milk and milk products 12 hrs

UNIT III. Food chemistry: Carbohydrates, lipids, Proteins and their interaction.

Food safety: Food spoilage, control of micro-organisms. 16 hrs

UNIT IV. Food Processing and Preservation: 10 hrs

CONVENER: Prof. (Smt) S.B.Patil<sub>H.O.D.</sub>

RESOURCE PERSONS: Smt. S.B.Patil

Dr. Smt S.P. Shiragave

### EVALUATION METHOD:

- Theory: One paper of one and half hrs duration for 30 marks
- Practical: 2 hours duration for 20 marks

### REFERENCE:

- Foods: Facts and Principles by N. Shakuntala Manay & M. Shadaksharaswamy. New Age International Publishers, New Delhi.
- Food Fundamentals by Williamsons M. John Willey & Sons. Inc. N.Y.
- Food Science by Patter M.N, AVI Publ.Co.N.Y
- Industrial Microbiology by Cassida L.T. wiley Eastern Ltd., London
- Food Adulteration and its protection by Jesse Park Pattershall, Kindle edition.



  
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Ph.: 08338-220116

## DEPARTMENT OF BOTANY

### Certificate course in Food processing and Nutrition

#### Introduction:

Nutrition assumes a vital part of one's health and well being. A decent balanced diet keeps the body active and fit. The course prepares the candidates in the areas of nutrition, food, health and management. The candidates will get the knowledge and skills in food science, cooking, menu planning or preparation, innovations and technology in new healthy foods, special diets, catering and cafeteria. Food processing and Nutrition certificate course helps to provide students with a broad range of both fundamental principles and innovative practices in the subject areas, so they may be able to apply their knowledge proficiently in the food and health sectors and in related industries. The course is designed to enable the students to engage in direct services for older adults such as old age homes, residential and day care facilities, rehabilitation services in the government and private sector.

#### Programme Objective:

The goal of this certificate program is to provide an all-encompassing overview of current substance, nutrition problems and issues along with their effects on social, emotional, physical, and spiritual health.

The course focus on understanding nutritional science, creating awareness on nutrition, its role and benefits, interpretation of nutrition, people's nutrition needs, teaching others and implementation of the nutrition program.


**Course Duration:** Three Months (30 hrs theory + 10 hrs practical= 40 hours)

Certificate Course in Food processing & Nutrition - 19-20

← Practical Test

Reg. No.	Roll No.	Student Name	2-3-20	3-3-20	5-3-20	7-3-20	12-9-20	Test													5-3-20	7-3-20	11-9-20	15-9-20	21-9-20												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Sl.No	Roll No.	Name																																			
1	113	Daksha Patel	1	2	3	4	5		18												1	2	3	4		20											
2	121	Masum Panawale	1	2	3	4	5		18												1	2	3	4		20											
3	122	Meenakshi Gurav	1	2	3	4	5		18												1	2	3	4		18											
4	123	Megha Sumbad	1			2	3		12												1	2	3	4		16											
5	124	Nandini Shiraganve	1	2			3		12												1	2		3		16											
6	125	Neha Kadakane	1	2	3	4	5		26												1	2	3	4		18											
7	126	Neha Patil	1	2	3	4	5		26												1	2	3	4		16											
8	131	Pooja Kesarkar	1	2	3	4	5		28												1	2	3	4		18											
9	140	Rachana Tandale	1	2	3		4		26												1		2	3		18											
10	142	Rohini Tharapatti	1	2	3	4	5		24												1		2	3		18											
11	143	Rutuja Patil	1	2			3		24												1			2		16											
12	146	Samiksha Gibise	1	2	3	4	5		28												1	2	3	4		18											
13	148	Saniya Awate	1	2	3		4		26												1	2	3	4		16											
14	149	Sanjeevini Hasure	1	2	3	4	5		28												1	2	3	4		18											
15	153	Seema Datawade	1	2	3	4	5		28												1	2	3	4		16											
16	154	Shahida Desai	1	2	3	4	5		29												1	2	3	4		18											
17	156	Soujanya Kamate	1	2	3	4	5		28												1	2	3	4		18											
18	159	Swati Tawadare	1	2	3	4	5		26												1	2	3	4		18											
19	162	Zalnabi Langoti	1	2	3	4	5		26												1	2	3	4		16											



  
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30  
30

K.L.E.Society's  
G.L.Bagewadi Arts, Science and Commerce College, Nipani  
Examination 2019-20  
**Certificate Course in Food Processing and Nutrition**

Time: 30 mins

Marks: 30

All Questions Carry Equal Marks

10 X 3= 30

Tick the correct Answer

1. Food processing in India is concentrated in which sector, maximum?

- a) Organized Sector
- b) Unorganized sector
- c) Small Scale
- d) None of the mentioned

2. Which among these is a factor for processed food in India?

- a) Changing lifestyles
- b) Food habits
- c) Organized food retail
- d) All of the mentioned

3. There has been a shift from carbohydrate staple to animal sources and sugar in developed countries.

- a) True
- b) False

4. Statement 1: There will be a shift of demand snacks, convenience food and organic and diet food.

Statement 2: High taxation is a constraint for the food processing industry.

- a) True, False
- b) True, True
- c) False, False
- d) False, True

5. Which of the following are NOT key constraints of the food processing industry?

- a) Inadequate quality control
- b) High packaging cost
- c) Low demand
- d) Poor infrastructure as in no cold storage, warehouse etc

6. Which of the following is untrue?

- a) Basmati rice has gained international recognition
- b) Wine industry is gaining support in India, especially Maharashtra
- c) Dairy industry of India is the largest in the world
- d) None of the mentioned

7. Which of the following comes under grain processing in India?

- a) Oil seed processing
- b) Wheat processing
- c) Oil seed & Wheat processing



d) None of the mentioned

8. The biggest processing segment under food processing is the meat, poultry, vegetables and oil industry.

- a) True
- b) False

9. Export of marine products has been on a decline.

- a) True
- b) False

10. Which of the following do you think is a valid reason for decline of export of marine products to USA?

- a) Emerging markets in USA
- b) Anti- dumping procedure by US government on many marine products
- c) Emerging markets in USA & Anti- dumping procedure by US government on many marine products
- d) None of the mentioned

\*\*\*\*\*





**K.L.E. SOCIETY'S**

**G I BAGEWADI ARTS, SCIENCE & COMMERCE  
COLLEGE NIPANI – 591 237 (Karnataka-India)**

**(Accredited by NAAC at 'A' Level with CGPA 3.35)**

# **“FOOD PROCESSING AND NUTRITION”**

**Conducted By**

**DEPARTMENT OF BOTANY**

## **Certificate**

This is to certify that ~~Mr./Ms.~~ Swati Jawadare of  
B. sc IV has completed the Certificate Course in  
Food Processing and Nutrition satisfactorily and secured \_\_\_\_\_ grade.

  
**CO-ORDINATOR**



  
**PRINCIPAL**





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Ph.: 08338-220116

## DEPARTMENT OF BOTANY

Ref: Ref: Ref.:E/E/Cert/1pg

Date: 21.09.2020

### Report on Certificate course in Food Processing and Nutrition 2019-20

Name of the Department	Botany
Name of the Event Organized	Certificate course
Title of the Event	Food Processing And Nutrition
Date of the Event Organized	March to September 2020 (Duration extended due to Covid)
Name of the Convener	Smt. S.B.Patil and Dr. Smt. S.P.Shiragave
Participants	V semester Botany Students.
No. of Participants	20
Name of the Expert with Designation	Smt. S.B. Patil
Contact Number & Address of the Expert	G. I. Bagewadi College, Nipani
Objectives of the Event	To understand Nutritional Science
Outcome of the Event	Students learnt about Nutritional Science

HOD

Head

Department of Botany  
K.L.E's G. I. B. College, Nipani.

IQAC Coordinator

IQAC Co-ordinator

K.L.E's G. I. B. College, Nipani.

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E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)  
Phone No: 08338-220116

Ref. No.

Date: 01/01/2020

### NOTICE

#### Department of English

All the degree and PG students are hereby informed that Department of English is introducing a certificate course, "Spoken English", of three months duration for the year 2019-2020. Interested students can enroll their names to Miss Suveda Kakade or Mr. Satish Kamble on or before 10<sup>th</sup> January, 2020. Details are as following:

#### Course Duration:

- Three Months(30 hours)

#### Eligibility:

- Degree/ PG (Arts, Science and Commerce)

#### Content of Course:

- Unit 1: Error analysis
- Unit 2: Vocabulary Building
- Unit 3: Functions of language
- Unit 4: Dialogue writing
- Unit 5: Speech writing

#### Fee Structure:

For Registration: Rs.200/-

Resource Persons:

1. Miss Suveda Kakade
2. Mr. Satish H. Kamble

*Suveda*  
HOD

Head  
Department of English  
K.L.E.'s G. I. B. College, Nipani.



*Suveda*  
Principal  
PRINCIPAL

G.I. Bagewadi Arts, Science,  
Commerce & PG College, Nipani



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Website : [www.klegibnpa.edu.in](http://www.klegibnpa.edu.in)

☎ (08338) 220116

E-mail : [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

**DEPARTMENT OF ENGLISH**

**Application form for admission to Certificate Course in  
"Spoken English"-2019-2020**

To,

The Head

Department of English

K. L. E. Society's

G. I. Bagewadi College, Nipani.

**PARTICULARS OF APPLICANT**

1. Full Name of the Applicant : Akshata Bagewadi
2. Class : BA VI Semester
3. Category : GM
4. Gender : Female
5. Address for correspondence: A/P : Sankeshwar  
Tal: Hukkeri Dist: Belagavi
6. Contact No. : 9449772518
7. E-mail ID : akshatabagewadi@gmail.com



Bagewadi  
Signature of Applicant



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☎ (08338) 220116

E-mail : [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

**DEPARTMENT OF ENGLISH**

**Application form for admission to Certificate Course in**

**"Spoken English"-2019-2020**

To,

The Head

Department of English

K. L. E. Society's

G. I. Bagewadi College, Nipani.

**PARTICULARS OF APPLICANT**

1. Full Name of the Applicant : Gurunath Patrot
2. Class : MA IV Semester
3. Category : SC
4. Gender : Male
5. Address for correspondence: AP! Santeshwar  
Tal: Hukkari Dist: Belagavi
6. Contact No. : 8722356501
7. E-mail ID : gurunatp@gmail.com



*Gurunath Patrot*  
Signature of Applicant



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## G. I. Bagewadi Arts, Science & Commerce College, Nipani

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E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

Phone No: 08338-220116

### "SPOKEN ENGLISH" Certificate Course Roll call

Sl. No	NAMES OF THE STUDENTS	CLASS	ROLL NUMBER
01	AKSHATA BAGEWADI	BA VI SEM	01
02	ALMAS MULLA	BA VI SEM	02
03	ANNAPURNESHWARI MUDHALE	BA VI SEM	03
04	CHAITNA UPADHYAY	BA VI SEM	04
05	DEEPA SHINGADE	BA VI SEM	05
06	GANGAVVA HERAVENNAVAR	BA VI SEM	06
07	GAYATRI PATIL	BA VI SEM	07
08	GAZALA GAVANDI	BA VI SEM	08
09	HARSHITA YADAV	BA VI SEM	09
10	MALAPPA LAVATE	BA VI SEM	10
11	MANJUNATH KAREGAR	BA VI SEM	11
12	MARUTI GAVADE	BA VI SEM	12
13	MAYURI KAMAGOUDA	BA VI SEM	13
14	MAYURI HARER	BA VI SEM	14
15	POOJA R. PATIL	BA VI SEM	15
16	PRIYA BHOJE	BA VI SEM	16
17	RATNA BALADONTAPPA	BA VI SEM	17
18	RESHMA MUTNALE	BA VI SEM	18
19	SACHIN S. KHOT	BA VI SEM	19
20	SAHANA M. BAGI	BA VI SEM	20
21	SANDHYA B. BAUSOTE	BA VI SEM	21
22	SATYAVVA KOOTE	BA VI SEM	22
23	SHIVANI CHANDAGADE	BA VI SEM	23





24	SNEHA N. MANGASULI	BA VI SEM	24
25	SAMDHYRANI CHAVAN	BA VI SEM	25
26	SOUNDARYA KABBUR	BA VI SEM	26
27	VANDANA AJEET M	BA VI SEM	27
28	ARATI KHOT	BA VI SEM	28
29	FIROZKHAN KHANU	BA VI SEM	29
30	ANITA JANAWADE	MA IV SEM	30
31	ASHWINI JANAWADE	MA IV SEM	31
32	BHARATI H. DIVATE	MA IV SEM	32
33	GURUNATH PATROT	MA IV SEM	33
34	JUHEEN BAGWAN	MA IV SEM	34
35	PRADEEP TALAWAR	MA IV SEM	35
36	PRASAD TALAWAR	MA IV SEM	36
37	SHARAD BHANDARI	MA IV SEM	37
38	SHEETAL GHATAGE	MA IV SEM	38
39	SHIFA PANAGARE	MA IV SEM	39
40	SUREKHA PATIL	MA IV SEM	40
41	VIANAYAK PATIL	MA IV SEM	41
42	ANITA MALAKAPURE	MA II SEM	42
43	ASMA MAKANDAR	MA II SEM	43
44	ROHINI KAMBLE	MA II SEM	44
45	SHAISHTA GHORI	MA II SEM	45
46	VIDYA GARASANGI	MA II SEM	46
47	VIJAYALAXMI HIREMATH	MA II SEM	47

*P. K. G.*

HOD

Head

Department of English  
K.L.E's G. I. B. College, Nipani.



*P. K. G.*

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G.I. Bagewadi Arts, Science,  
Commerce & PG College, Nipani.

## SPOKEN ENGLISH

### SYLLABUS

**Objectives:** To help the students to improve their communication skills and enable them to speak confidently, effectively and fluently in English.

UNIT	TOPIC	DURATION
<b>I</b>	<b>Error analysis</b>	<b>08 Hours</b>
<b>II</b>	<b>Functions of language:</b> <ol style="list-style-type: none"> <li>i. Starting a conversation with a stranger</li> <li>ii. Making requests</li> <li>iii. Expressing gratitude and responding to a gratitude</li> <li>iv. Complementing and congratulating</li> <li>v. Apologizing and responding to an apology</li> <li>vi. Expressing sympathy</li> <li>vii. Seeking permission</li> <li>viii. Introducing: self, family members and friends</li> <li>ix. Leave taking and ending a conversation</li> <li>x. Request for repetition</li> <li>xi. Asking for information</li> <li>xii. Offering to help</li> <li>xiii. Complaining</li> <li>xiv. Asking about preference</li> <li>xv. Agreeing and disagreeing</li> </ol>	<b>08 Hours</b>
<b>III</b>	<b>Dialogue writing:</b> <ol style="list-style-type: none"> <li>i. Teacher and Students</li> <li>ii. Unexpected meet of your school friend</li> <li>iii. When you meet your school teacher after 10 years</li> <li>iv. Apologizing your friend for not attending his/her marriage</li> <li>v. Booking a room on phone</li> <li>vi. Enquiring about a hostel facilities</li> <li>vii. Doctor and patient</li> <li>viii. Shopkeeper and Customer</li> <li>ix. Giving the directions to a stranger</li> </ol>	<b>10 Hours</b>
<b>IV</b>	<b>Speech writing:</b> <ol style="list-style-type: none"> <li>i. Welcome note</li> <li>ii. Vote of thanks</li> <li>iii. Introduction of the chief guest</li> </ol>	<b>6 Hours</b>
<b>V</b>	<b>Vocabulary Building</b>	<b>04 Hours</b>

#### References:

- Wren P. C. and Martin, H. *High school English Grammar and Composition*, S. Chand & Company: New Delhi.
- Bhatia, C. *A New Approach to Objective English*, Dhillon Publications: Kalkaj New Delhi.
- Kudari, M. B. (2010). *A Passage to English*, Chaitanya Offset Printers: Gadag
- Murphy, R. *Essential English Grammar*: Cambridge University Press.
- Levis Norman, *Word Power Made Easy*.



**PRINCIPAL**  
 G.I. Bagewadi Arts, Science & Commerce College, NIPANI.



K.L.E. Society's

**G. I. Bagewadi Arts, Science & Commerce College, Nipani**

[Accredited at 'A' Grade by NAAC with 3.35 CGPA]

Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

Phone No: 08338-220116

**Department of English**

**Certificate course 2019-2020**

**Spoken English: BAEgC 2020**

**TIME TABLE**

DAY	TIME
Monday	4-5
Thursday	4-5

*Phulla*  
**HOD**



*ay*  
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Phone No: 08338-220116

### Department of English

### Certificate course 2019-2020

### Spoken English: BAEgC 2020

### Workload

**Total Hours- 30**

#### Resource Persons

1. Miss. Suveda Kakade : 15 hours
2. Mr. Satish Kamble : 15 hours

#### Resource Persons

1. Miss. Suveda Kakade

2. Mr. Satish Kamble



**HOD**

**Head**

**Department of English  
K.L.E.'s G. I. B. College, Nipani.**

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Phone No: 08338-220116

### "SPOKEN ENGLISH" Certificate Course

### Result Sheet

Sl. No	NAMES OF THE STUDENTS	CLASS	Marks Obtained (out of 10)
01	AKSHATA BAGEWADI	BA VI SEM	08
02	ALMAS MULLA	BA VI SEM	07
03	ANNAPURNESHWARI MUDHALE	BA VI SEM	08
04	CHAITNA UPADHYAY	BA VI SEM	09
05	DEEPA SHINGADE	BA VI SEM	07
06	GANGAVVA HERAVENNAVAR	BA VI SEM	07
07	GAYATRI PATIL	BA VI SEM	08
08	GAZALA GAVANDI	BA VI SEM	08
09	HARSHITA YADAV	BA VI SEM	09
10	MALAPPA LAVATE	BA VI SEM	07
11	MANJUNATH KAREGAR	BA VI SEM	07
12	MARUTI GAVADE	BA VI SEM	07
13	MAYURI KAMAGOUDA	BA VI SEM	08
14	MAYURI HARER	BA VI SEM	07
15	POOJA R. PATIL	BA VI SEM	08
16	PRIYA BHOJE	BA VI SEM	10
17	RATNA BALADONTAPPA	BA VI SEM	09
18	RESHMA MUTNALE	BA VI SEM	08
19	SACHIN S. KHOT	BA VI SEM	09
20	SAHANA M. BAGI	BA VI SEM	07
21	SANDHYA B. BAUSOTE	BA VI SEM	08





22	SATYAVVA KOOTE	BA VI SEM	08
23	SHIVANI CHANDAGADE	BA VI SEM	07
24	SNEHA N. MANGASULI	BA VI SEM	08
25	SAMDHYRANI CHAVAN	BA VI SEM	09
26	SOUNDARYA KABBUR	BA VI SEM	09
27	VANDANA AJEET M	BA VI SEM	07
28	ARATI KHOT	BA VI SEM	07
29	FIROZKHAN KHANU	BA VI SEM	09
30	ANITA JANAWADE	MA IV SEM	08
31	ASHWINI JANAWADE	MA IV SEM	07
32	BHARATI H. DIVATE	MA IV SEM	09
33	GURUNATH PATROT	MA IV SEM	08
34	JUHEEN BAGWAN	MA IV SEM	07
35	PRADEEP TALAWAR	MA IV SEM	09
36	PRASAD TALAWAR	MA IV SEM	09
37	SHARAD BHANDARI	MA IV SEM	08
38	SHEETAL GHATAGE	MA IV SEM	09
39	SHIFA PANAGARE	MA IV SEM	08
40	SUREKHA PATIL	MA IV SEM	09
41	VIANAYAK PATIL	MA IV SEM	08
42	ANITA MALAKAPURE	MA II SEM	09
43	ASMA MAKANDAR	MA II SEM	09
44	ROHINI KAMBLE	MA II SEM	09
45	SHAISHTA GHORI	MA II SEM	08
46	VIDYA GARASANGI	MA II SEM	09
47	VIJAYALAXMI HIREMATH	MA II SEM	09

RESOURCE PERSONS

1. 

2. 



HOD

Head

Department of English  
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## Department of English

### Report on Certificate Course (2019-20)

Considering the essence of English communication in this competitive world, the department of English conducted certificate course "Spoken English" during the academic year 2019-20.

On 1<sup>st</sup> January, 2020 a notice was issued by the department regarding the certificate course. 47 UG and PG students joined the certificate course.

Miss.Suveda Kakade and Mr.Satish Kamble were the resource persons of the certificate course Eventually, evaluation of the students was done through viva-voce method. The course lasted for 30 hours from 13<sup>th</sup> January, 2020 to 12<sup>th</sup> March, 2020. Later, certificates were awarded to the students.

*Rullo*  
HOD

Head  
Department of English  
K.L.E.'s G. I. B. College, Nipani



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G. I. Bagewadi College, Nipani



**K.L.E. Society's  
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**DEPARTMENT OF MATHEMATICS**  
**Certificate Course for the year 2019-20**

**NOTICE**


Department of Mathematics is going to start a Certificate Course in "Reasoning and Quantitative Aptitude" in the third week of January 2020 which is very useful for all type of competitive exams., Bank exams., CET for PG courses and MNC online exams. etc. So interested students of B.A., B.Sc. , and B.Com. can enroll their names in the Dept. of Mathematics on or before 20/1/ 2020.

  
**HOD**  
**Head**

Department of Mathematics  
K.L.E's G. I. B. College, Nipani.

  
**IQAC Co-ordinator**  
K.L.E's G. I. B. College, Nipani.



  
**Principal**  
**PRINCIPAL**  
G.I. Bagewadi Arts, Science,  
Commerce & PG College, Nipani


**K. L. E. Society's**  
**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
**DEPARTMENT OF MATHEMATICS**  
**Certificate Course in 'Reasoning and Quantitative Aptitude'**  
**Students Enrollment in the year 2019-20**

Roll No.	Name of the students	Class
1	Namrata R Lokhande	B.S.c.II Sem
2	Priya Basannavar	B. Sc. II Sem
3	Priti Boragalle	B. Sc. II Sem
4	Pratiksha Karale	B. Sc. II Sem
5	Akanksha A Gurav	B. Sc. II Sem
6	Vaishnavi Gurav	B. Sc. II Sem
7	Ashwini S Dodabhangi	B. Sc. II Sem
8	Rutuja Shendure	B. Sc. II Sem
9	Tejaswini T Khade	B. Sc. II Sem
10	Madhavi V Hirekude	B. Sc. II Sem
11	Rutika Kamate	B. Sc. II Sem
12	Nikhita C Wadkar	B. Sc. II Sem
13	Arati Suresh Patil	B. Sc. II Sem
14	Simran Nadaf	B. Sc. II Sem
15	A I Nafeejabanu	B. Sc. II Sem
16	Akshata Yaranal	B. Sc. II Sem
17	Aishwarya Kage	B. Sc. II Sem
18	Sunil S Gaded	B. Sc. II Sem
19	Dundappa A. Hawaldar	B. Sc. IV Sem
20	Akshay A Akkolte	B. Sc. II Sem
21	Kiran Naik	B. Sc. II Sem
22	Shubham D Vatajude	B. Sc. II Sem
23	Sushsay padre	B. Sc. II Sem
24	Praveen Phadi	B. Sc. II Sem
25	Mahaling Done	B. Sc. II Sem
26	Siddeshwar Gundakalle	B. Sc. II Sem
27	Swapna J Gorawade	B. Sc. VI Sem
28	Ankita Kumbar	B. Sc. IV Sem
29	Shebarani Nagannavar	B. Sc. VI Sem
30	Sheetal S Hujare	B. Sc. VI Sem
31	Pooja K Magadum	B. Sc. VI Sem
32	Daneshwari Patil	B. Sc. IV Sem

  
**HOD**  
**Head**

**Department of Mathematics**  
**K.L.E's G. I. B. College, Nipani.**

  
**IOAC Co-ordinator**  
**K.L.E's G. I. B. College, Nipani.**

  
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**DEPARTMENT OF MATHEMATICS**  
**Certificate Course in 'Reasoning & Quantitative Aptitude'**  
**2019-20**

**Objectives:**

The Mathematics certificate course is a programme designed to enhance the knowledge of mathematics and strengthen applications to graduate school and the job market. Having a strong background in Mathematics is viewed increasingly as an asset to students seeking entrance to graduate school in most sciences. It is also highly desirable for many employers.

This certificate course does not require any high level mathematics or mastery of proof writing , even a non mathematician also can do it. All under graduates and special students are eligible for a Mathematics certificate course.

**Course Details:**

This is a short term course that requires three months of study, which provides strong quantitative skills to students who are willing to appear for Competitive Exam, Entrance tests for MBA, MCA, TGT, PGT, NET, SET etc. How to solve a mathematical questions is not significant in such exams, most important aspect is to how to solve in a fraction of minute, using short cut methods. This has been taken care in this course. The applied nature of the program implies the fact that how to solve objective type questions by short cut methods.

**Particulars of course:**

**Duration:** 3 months, April 2020 to June 2020.

**Schedule :** 4 Lecture hours weekly, total of 50 class hours.

**Target Audience:** Mainly undergraduate students of all faculty, also postgraduate students and professionals.

**Fees:** Rs.500

**Number of students enrolled:** 34

**Evaluation:** After two months of starting of course one test for 20 marks will be conducting and final Exam will be conducted at the end of course (objective type question) , and grade will be given according to their performance in final exam.





**No. of hours unit wise:**

S. No.	Units	No. of hrs.	Weight-age of Marks
01	Reasoning	05	05
02	Calendar	05	03
03	Problems on Ages	04	02
04	Average and Percentage	06	02
05	Profit and Loss	05	02
06	Data Interpretation	05	02
07	Simple and compound interest	05	02
08	Time and work & time and distance	04	03
09	Problems on trains	04	02
10	Venn diagram based questions	02	01
11	LCM and HCF	03	01

**Unit wise syllabus of the course:****Unit 1: Reasoning (Series completion)**

Number series and alphabet series

5 hrs.

**Unit 2: Calendar**

Definitions of ordinary year, leap year, odd day, counting of odd days in a month and a year. Method of calculation of odd days for particular date and finding the day for given date and examples.

5 hrs.

**Unit 3: Problems on ages**

Finding the ages of father, son or daughter under given conditions.

5 hrs.

**Unit 4: Average and Percentage**

Formulae, concept of average and examples. Concept of percentage, Results on population, results on depreciation.

6 hrs.

**Unit 5: Profit and Loss**

Coast prize (CP), selling prize (SP), profit or gain, loss, formulae and examples. 5 hrs

**Unit 6: Data Interpretation**

Tabulation, BarGraphs, Pie Charts and Line Graphs

5 hrs

**Unit 7: Simple and compound interest**

Principle, interest, simple interest (SI), examples. Compound interest- concept of compound interest, calculation of amount for different periods.

5 hrs



**Unit 8: Time and work & Time and distance**

Formulae and examples, time and distance. Pipes and cisterns- Concept of Inlet, outlet. 4 hrs.

**Unit 9: Problems on Trains.**

Formulae for calculating speed, time, distance, relative velocity for moving in same and opposite direction and examples. 4 hrs.

**Unit 10: Venn diagram based questions**

2 hrs

**Unit 11: LCM & HCF**

3 hrs.

**Reference Books:**

- 1) Quantitative Aptitude for competitive examinations- R. S. Aggarwal
- 2) Verbal and nonverbal Reasoning - R. S. Aggarwal
- 3) Objective Arithmetic - R. S. Aggarwal

**Distribution of Syllabus:**

S.No.	Name of the teacher	Units allotted	No. of hours
1.	Miss Girija Karaguppi	3 & 10	07
2.	Miss Vinaya Khot	2 & 5	10
3.	Mr. Sammed Chougale	7 & 9	09
4.	Mr. Jinendra Magadum	4	06
5.	Ms. Karuna Samaje	1	05
6.	Dr. M. M. Shankrikopp	11	03
7.	Dr. Ashok Rathode	6	05
8.	Smt. Geeta Kamate	8	04

**TIME TABLE**

DAY	TIME
Saturday	5.00 pm to 6.00 pm
Sunday	10.00 am to 1.00 pm
On holidays 10.00 am to 12.00 noon	
Weekly 4 hrs	


**HOD****Head**

Department of Mathematics  
K.L.E's G. I. B. College, Nipani.



**IQAC Co-ordinator**  
K.L.E's G. I. B. College, Nipani.



**Principal**  
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G. I. Bagewadi College, Nipani.



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**G.I. Bagewadi Arts, Science & Commerce College, Nipani**  
**DEPARTMENT OF MATHEMATICS**  
**Certificate Course in 'Reasoning & Quantitative Aptitude' 2019-20**

Due to COVID -19 not possible to engage classes in class room, only 2 units have done before lockdown. So all staff members of our department are hereby informed to engage remaining units of certificate course classes online from 27.05.2020,wednesday. You have to create your own videos and upload in you tube and send the link to the students or send videos through whatsapp.

Distribution of syllabus and date is as follows

S. No.	Name	Unit	Date
1.	Dr.(Smt.) M. M. Shankrikopp	LCM & HCF	2.06.2020
2.	Miss Girija Karaguppi	Problems on Ages and Venn diagram	27.05.2020 04.06.2020
3.	Sri. Jinendra Magadum	Average and Percentage	28.05.2020 05.06.2020
4.	Sri. S.A. Chougale	Problems on Trains Simple and compound interest	16.02.2020 29.05.2020
5.	Smt. Karuna Samaje	Number and alphabetical series	30.05.2020
6.	Smt. Geeta Kamate	Time and work	01.06.2020
7.	Miss Vinaya Khot	Calendar Profit and loss	09.02.2020 03.06.2020
8.	Dr. Ashok Rathod	Data Analysis	03.06.2020

According to above table all teachers are informed to prepare notes of that unit and send PDF to student's whatsapp group and upload videos soon after or engage classes in zoom or Wbex app.

  
HOD

**Head**  
Department of Mathematics  
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K.L.E. Society's  
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Department of Mathematics

**Marks List of Certificate Course Exam. 2019-20 (Online), on 3.8.2020**

Timestamp	Name of the student	Score	Email. Id	Class
02/08/2020 23:46	Simran Nadaf	eight	yaseennadaf47@gmail.com	Bsc 1st year
03/08/2020 0:04	Swapna J Gorawade	ten	swapnajg1999@gmail.com	B.SC 6 th sem
03/08/2020 0:04	Preeti boragalle	24 / 50	preetiboragalle5454@gmail.com	Bsc 2nd sem
03/08/2020 0:18	Nikhita wadakar	22 / 50	nikhitawadakar2212@gmail.com	Bsc1st
03/08/2020 0:21	Ankita Kumbar	24 / 50	ankitakumbar9@gmail.com	Bsc 4 sem
03/08/2020 0:29	Rutika Balasaheb Kamate	36 / 50	rutikakamate@gmail.com	BSc 2nd
03/08/2020 0:29	Namrata. R.Lokhande	36 / 50	namratalokhande2020@gmail.com	B.Sc - 2 nd sem
03/08/2020 0:29	Vaishnavi Ravindra Gurav	34 / 50	vaishnavigurav9379@gmail.com	Bsc 2nd sem
03/08/2020 0:30	Priya basannavar	34 / 50	priyabasannavar@gmail.com	BSC 2nd
03/08/2020 0:31	Shrinath Ramesh Waddar	14 / 50	shrinathwaddar123@gmail.com	Bsc 4th sem
03/08/2020 0:31	DANESHWARI patil	24 / 50	daneshwaripatil2001@gmail.com	Bsc 4th semester
03/08/2020 0:31	Arati Patil	16 / 50	aratipatil6363554925@gmail.com	B.Sc2nd sem
03/08/2020 0:31	Harish Managuli	38 / 50	harishmanguli@gmail.com	Bsc4
03/08/2020 0:32	Pratiksha karale	16 / 50	pratikshakarale055@gmail.com	Bsc 2 nd sem
03/08/2020 0:33	Shebarani Nagannavar.	38 / 50	shebaraninagannavar@gmail.com	B.sc 6th semester
03/08/2020 0:41	Siddeshwar B Gundakalle	30 / 50	sbgundakalle@gmail.com	Bsc 1st year
03/08/2020 0:42	Shubham D V	30 / 50	shubhamvatagude@gmail.com	Bsc 2 sem
03/08/2020 0:45	Pooja Kiran Magadum	20 / 50	magadumpooja7@gmail.com	Bsc3rd
03/08/2020 0:48	Shital Shamrao Hujare	18 / 50	shitalhujare99@gmail.com	B.Sc.6 sem



HOD  
Head

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IQAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.



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**K. L. E. Society's G. I. Bagewadi College,  
Nipani Department of Mathematics ,  
Certificate Course Exam 2019-20**

Date: 3.8.2020, 12.00 noon to 1.00 pm

\*Required

1. Email \*

2. Name of the student \*

3. Class (as per the year 2019-20) \*

4. Phone number \*

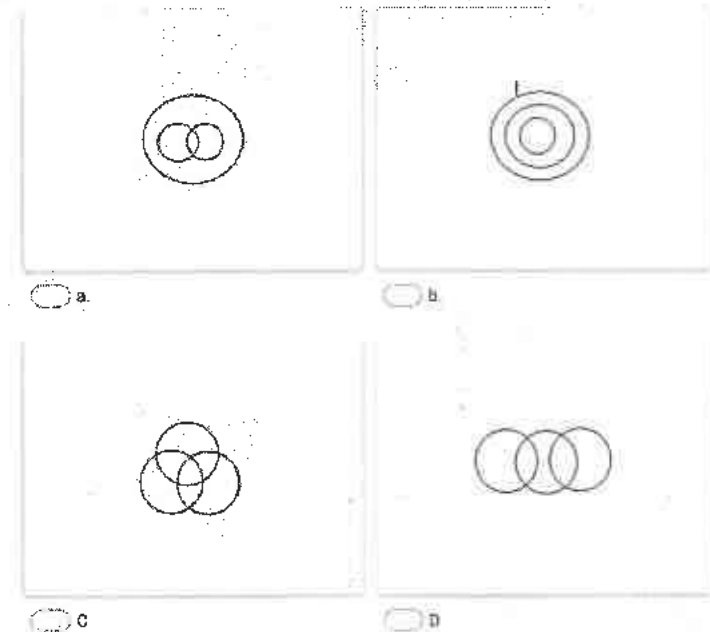
For each question 3 or 4 or 5 options are given, select correct one and mark.

Total 25 questions and 1 hr time.



5. 1. Which one of the following four logical Veinn-diagrams represents the relationship between Musicians, Violinists, and Vocalists? 2 points

Mark only one oval.



6. 2. The age of a husband is obtained by interchanging the digits in the age of his wife. If the difference between their ages is one-eleventh of the sum of their ages, then the age of the wife is a) 56 b) 45 c) 34 d) 23 2 points

Mark only one oval.

- a  
 b  
 c  
 d



K. L. E. Society's G. I. Bagewadi College,  
Nipani Department of Mathematics ,  
Certificate Course Exam 2019-20

Date: 3.8.2020, 12.00 noon to 1.00 pm

\*Required

1. Email \*

\_\_\_\_\_

2. Name of the student \*

\_\_\_\_\_

3. Class (as per the year 2019-20) \*

\_\_\_\_\_

4. Phone number \*

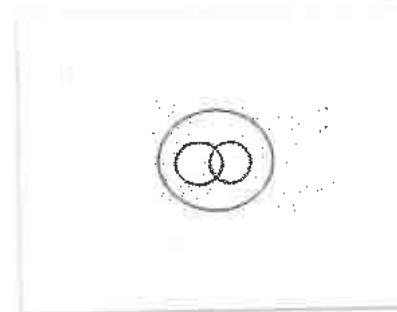
\_\_\_\_\_

For each question 3 or 4 or 5 options are given, select correct one and mark.

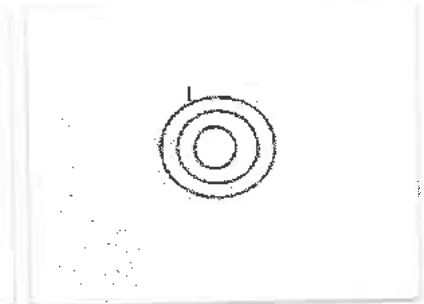
Total 25 questions and 1 hr time.

5. 1. Which one of the following four logical Venn-diagrams represents the relationship between Musicians, Violinists, and Vocalists? 2 points

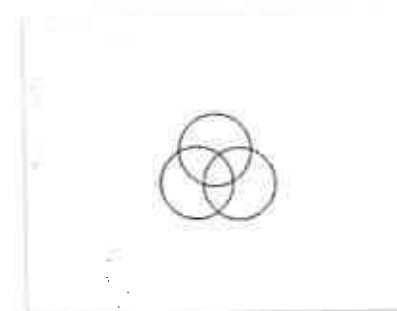
Mark only one oval.



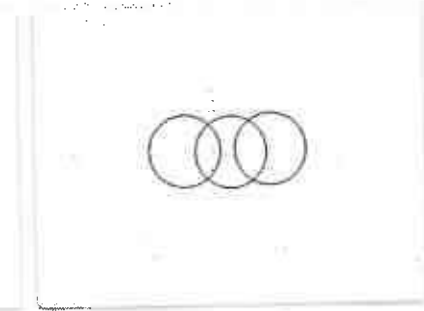
a.



b.



c.



d.

6. 2. The age of a husband is obtained by interchanging the digits in the age of his wife. If the difference between their ages is one-eleventh of the sum of their ages, then the age of the wife is a) 54 b) 45 c) 34 d) 23 2 points

Mark only one oval.

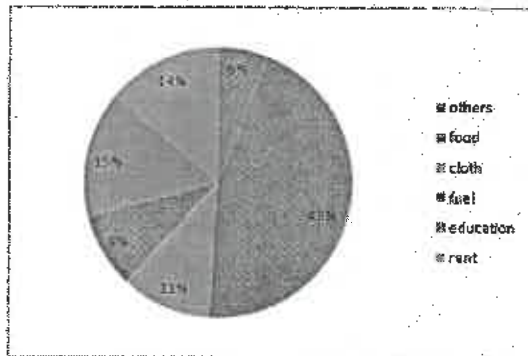
a.

b.

c.

d.

7. 3. The following Pie-Chart shows the expenditure incurred by a family in a month over different heads, study the chart carefully and answer the question What is the ratio of the total amount spent on cloth and fuel to the amount spent on education? (a) 4:3 (b) 1:2 (c) 2:3 (d) 3:4 2 points



others -5%, food -45%, rent -14%, cloth -11%, fuel -9%, education -15%

Mark only one oval.

- a.  
 b.  
 c.  
 d.

8. 4. The present ratio of the ages of A & B IS 4:5, 18 years ago this ratio was 11:16. Find the sum total of their present ages. a) 90 years b) 80years c) 105 years d) 110years 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

9. 5. Ketan takes casual leave only on first working day of every month. The office has weekly offs on Saturday and Sunday. In a month of 30 days, the first working day happened to be on Tuesday. What will be the day for his next casual leave? a) Monday b) Tuesday c) Wednesday d) Thursday 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

10. 6. How many times does the 29th day of the month occur in 400 consecutive years? a) 1237 b) 4497 c) 5012 d) 4126 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

11. 7. The difference between the cost price and sale price of an article is Rs.240. If the profit is 20%, the selling price is a) 1600 b) 2400 c) 1200 d) 240 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

12. 8. If selling price is doubled, the profit triples then what is profit percent? a) 25% b) 50% c) 75% d) 100% 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

13. 9. In 11 innings a certain average has been made by a player. In the next 2 points  
innings he made 90 runs and his average have downfall with 5 runs. What  
will be the average of that player after 12 innings? a) 145 b) 150 c) 155 d) 123.

Mark only one oval.

- a.  
 b.  
 c.  
 d.

14. 10. In an election between the two candidates, the candidate who gets 30% 2 points  
of the votes polled is defeated by 16000 votes. What is the total number of  
votes polled? a) 24000 b) 28000 c) 30000 d) 40000

Mark only one oval.

- a.  
 b.  
 c.  
 d.

15. 11. A batsman scored 120 runs which includes 3 boundaries and 9 sixes. 2 points  
What percent of his total score did he make by running between the  
wickets? a) 25% b) 45.5% c) 75% d) 45%

Mark only one oval.

- a.  
 b.  
 c.  
 d.

16. 12. 3 years ago, the average age of a family of 5 members was 17 years. A 2 points  
baby having been born, the average age of the family is the same today. The  
present age of the baby is? a) 1 years b) 1.5years c) 3years d) 2 years

Mark only one oval.

- a.  
 b.  
 c.  
 d.

17. 13) A is north of B & C is west of B. What is the direction of A with respect to 2 points  
C? a) North-East b) West c) South d) South West

Mark only one oval.

- a.  
 b.  
 c.  
 d.

18. 14) Which Venn- diagrams illustrates the relationships among the words Ink, Paper, Stationary. 2 points



Mark only one oval.

- a.  
 b.  
 c.  
 d.

19. 15) A work can be completed by 3 men and 7 women in 10 days but 4 men and 6 women need 8 days to complete the same work-in how many days will 10 women complete the same work? a) 30 b) 40 c) 50 d) 20 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

20. 16) A man wants to finish a work in 150 days, he employs 200 workers. he discovers that only the quarter of the work is done in 50 days. In order to complete the work on schedule, how many workers must he employ additionally? a) 50 b) 100 c) 150 d) 200 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

21. 17) A train 125 m long passes a man, running at 5 km/hr in the same direction in which the train is going, in 10 seconds. The speed of the train is: a) 45km/hr b) 50km/hr c) 54km/hr d) 55km/hr 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

22. 18. Two trains of equal length are running on parallel lines in the same direction at 46 km/hr and 36 km/hr. The faster train passes the slower train in 36 seconds. The length of each train is: a) 50 m b) 72m c) 80m d) 82m 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.



23. 19. A lent Rs. 5000 to B for 2 years and Rs. 3000 to C for 4 years on simple interest at the same rate of interest and received Rs. 2200 in all from both of them as interest. The rate of interest per annum is: a) 5% b) 7% c) 7 integer  $\frac{1}{8}$  % d) 10% 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

24. 20. Let N be the greatest number that will divide 1305, 4665 and 6905, leaving the same remainder in each case. Then sum of the digits in N is: a) 4 b) 5 c) 6 d) 8 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

25. 21. Find out the wrong number in the series, 7, 8, 18, 57, 228, 1165, 6996 a) 8 b) 18 c) 57 d) 228 e) 1165 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.  
 e.

26. 22. The price of 10 chairs is equal to that of 4 tables. The price of 15 chairs and 2 tables together is Rs. 4000. The total price of 12 chairs and 3 tables is: a) Rs. 3500 b) Rs. 3700 c) Rs. 3840 d) Rs. 3900 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

27. 23. Find the missing word in ELFA, GLHA, ILJA, \_\_\_\_\_, MLNA a) OLPA b) KLMA c) LLMA d) KLLA 2 points

Mark only one oval.

- a.  
 b.  
 c.  
 d.

28. 24. Blueberries cost more than strawberries. Blueberries cost less than raspberries. Raspberries cost more than strawberries and blueberries. If the first two statements are true, the third statement is a) True b) False c) Uncertain 2 points

Mark only one oval.

- a.  
 b.  
 c.





29. The difference between a two-digit number and the number obtained by interchanging the positions of its digits is 36. What is the difference between the two digits of that number? a) 3 b) 4 c) 9 d) Cannot be determined

Mark only one oval.

- a.  
 b.  
 c.  
 d.

30. Suggestions:
- 
- 

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**Head**  
**Department of Mathematics**  
**K.L.E's G. I. B. College, Nipani.**



  
**PRINCIPAL**  
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**G. I. Bagewadi College, Nipani.**

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G.L. Bagewadi Arts, Science and Commerce College, Nipani, 591237

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

Department of Mathematics

Marks List of Aptitude Test 2019-20 (Online), on 3.8.2020

S. No.	Date and time	Name of the student	Class	Score out of 50	e mail id	Ph. no.
1	03/08/2020 0:30	ABHISHEK SHRIKANT MADIWAL	B.Sc. 4th Sem.	44	am450160@gmail.com	8971806902
2	03/08/2020 0:16	Vivek J Dhamanemath	B.Sc. 4th Sem.	40	vivekdhamanemath@gmail.com	9902866318
3	03/08/2020 0:25	Laxmi Prakash Sansuddi	BSc 6th sem	38	laxmisansuddi2399@gmail.com	9886163741
4	03/08/2020 0:30	Sonali chandrakant Madiwal	B.Sc. 4th Sem.	38	sonalimadiwal15@gmail.com	9880613411
5	03/08/2020 0:33	Shruti patil	B.Sc. 4th Sem.	38	shrutipatil0047@gmail.com	7483222707
6	03/08/2020 0:33	Shebarani Nagannavar.	B.Sc 6th semester	38	shebaraninagannavar@gmail.com	9611587507
7	03/08/2020 0:18	Akshata Yaranal	BSc 2nd sem	35	nagadiyaranal@gmail.com	6366590129
8	03/08/2020 0:20	Trupti N Magadum	M.Sc. II Sem	36	magadumtrupti47@gmail.com	6362565650
9	03/08/2020 0:29	Rutika Balasaheb Kamate	Bsc 4th sem	36	rutikakamate@gmail.com	6364361012
10	03/08/2020 0:29	Namrata. R.Lokhande	BSc 2nd sem	36	namratalokhande2020@gmail.co	9902281491
11	03/08/2020 0:31	Harish Managuli	B.Sc. 4th Sem.	36	harishmanaguli@gmail.com	9606893414
12	03/08/2020 0:34	Shivaprasad D. Toli	B.Sc. 4th Sem.	34	shivaprasadt22@gmail.com	9513853319
13	03/08/2020 0:43	Aniket A Jadhav	Bsc 6th sem	34	aniketajadhav1112@gmail.com	8792912421
14	03/08/2020 0:29	Vaishnavi Ravindra Gurav	BSc 2nd sem	34	vaishnavigurav9379@gmail.com	9379248167
15	03/08/2020 0:30	Priya basannavar	BSC 2nd Sem	34	priyabasannavar@gmail.com	8431377824
16	03/08/2020 0:07	Prachi Sanjay Mayanna	M.Sc. II Sem.	32	prachimayanna2019@gmail.com	8296011264
17	03/08/2020 0:28	Rutuja balaso malaba	B.Sc. 4th Sem.	32	mrutuja082@gmail.com	7026596115
18	03/08/2020 0:28	Siddhant	Bsc 6th sem	32	siddhantshingadi741@gmail.com	9663489294
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20	03/08/2020 0:30	Kashish awati	B.Sc. 4th Sem.	30	www.kashishawati5@gmail.com	9019302939
21	03/08/2020 0:36	Rutuja Rahul Shendure	BSc 2nd sem	30	pragatishendure@gmail.com	9739361008
22	03/08/2020 0:41	Siddeshwar B Gundakalle	BSc 2nd sem	30	sbgundakalle@gmail.com	8904605606
23	03/08/2020 0:42	Shubham D V	BSc 2nd sem	30	shubhamvatagude@gmail.com	9606133259
24	03/08/2020 0:25	Supriya Uttam khot	B.Sc. 4th Sem.	28	supriyakhot3737@gmail.com	9902926226
25	03/08/2020 0:31	Soundarya patil	Bsc 6th sem	28	patilsoundarya7@gmail.com	9535590693
26	03/08/2020 0:34	UmmSalma.A.Mulla	Bsc 6th sem	28	uamckd@gmail.com	8550029259
27	03/08/2020 0:14	Akash M. Shinde	Bsc 6th sem	26	akashshindekuri7@gmail.com	8904515404
28	03/08/2020 0:22	Prajakta Laxman Bhore	M.Sc. II Sem.	26	prajaktabhore2019@gmail.com	9880619709
29	03/08/2020 0:25	Vidhya nagesh jangade	Bsc 6th sem	26	vidyagangade11@gmail.com	8197813909
30	03/08/2020 0:25	Priyadarshini Madyagol	M.Sc. II Sem.	26	madyagolpriya4253@gmail.com	8217281765
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33	03/08/2020 0:30	Muskan Aslam Shekhaji	B.Sc. 6th Sem.	24	muskanshekhaji65@gmail.com	8088316804
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35	03/08/2020 0:42	Neeta	M.SC	24	neetabhate4@gmail.com	7899527378
36	03/08/2020 0:04	Preeti boragalle	Bsc 2nd sem	24	preetiboragalle5454@gmail.com	7259399225
37	03/08/2020 0:21	Ankita Kumbar	B.Sc. 4th Sem.	24	ankitakumbar9@gmail.com	6363177958
38	03/08/2020 0:31	DANESHWARI patil	B.Sc. 4th Sem.	24	daneshwaripatil2001@gmail.com	9632873317
39	03/08/2020 0:31	Savita Sambhaji Pathade	BSc 6 th sem	22	snpathdi6765@gmail.com	9108902664
40	03/08/2020 0:32	Jyoti. E. Torase	B.Sc. 4th Sem.	22	torasejyoti07@gmail.com	7090651050
41	03/08/2020 0:48	Rushikesh Ghatage.	Bsc 6 th sem	22	rushikeshghatage99@gmail.com	8722071315
42	03/08/2020 0:18	Nikhita wadakar	BSc 2nd sem	22	nkhitawadakar2212@gmail.com	9663496584



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45	03/08/2020 0:45	Pooja Kiran Magadum	B.Sc. 6th Sem.	20	magadumpooja7@gmail.com	9579265626
46	03/08/2020 0:23	Preeti Boragalle	BSc 2nd sem	19	preetiboragalle5454@gmail.com	7259399225
47	03/08/2020 0:09	Shruti patil	B.Sc. 4th Sem.	18	stpatil.166@gmail.com	9611414525
48	03/08/2020 0:20	Shruti s yalagoudanavar	B.Sc. 4th Sem.	18	shantinathyalagoudanavar1@gmail	9591357468
49	03/08/2020 0:27	Padmashri Vibhute	B.Sc. 4th Sem.	18	padmashrivibhute@gmail.com	6362153121
50	03/08/2020 0:36	Ashwini Babanrao Patil	B.Sc 6th sem	18	ashwinipatil130899@gmail.com	9606828172
51	03/08/2020 0:50	Pooja Yadav	M.Sc. IV Sem	18	poojayadav1997@gmail.com	6362723463
52	03/08/2020 0:48	Shital Shamrao Hujare	B.Sc. 6th Sem.	18	shitalhujare99@gmail.com	8971042063
53	02/08/2020 23:41	Shivani yashwant sutar	B.Sc. 4th Sem.	16	sutarshivani02@gmail.com	8916322017
54	03/08/2020 0:20	Rudragouda m patil	B.Sc. 4th Sem.	16	rudragoudap89@gmail.com	9019004043
55	03/08/2020 0:25	Snehal Maruti Jadhav	M.Sc. II Sem.	16	snehalmjadhav028@gmail.com	8431537878
56	03/08/2020 0:30	Seema	B.Sc. 4th Sem.	16	seemakulkami234@gmail.com	6363012056
57	03/08/2020 0:42	Shweta appaso kone	BSc 2nd sem	16	koneshweta4@gmail.com	6366318578
58	03/08/2020 0:31	Arafi Patil	B.Sc2nd sem	16	aratipatil6363554925@gmail.com	6364554925
59	03/08/2020 0:32	Pratiksha karale	Bsc 2 nd sem	16	pratikshakarale055@gmail.com	9353764576
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61	02/08/2020 23:51	Ashwini M Rangapure	BSc 2nd sem	14	rangapureashwini@gmail.com	9731433051
62	02/08/2020 23:52	Lata Rajendra Bhamal	M.Sc. II Sem.	14	latabhamal1998@gmail.com	6364626413
63	03/08/2020 0:04	Sukshay Sukumar Padre	BSc 2 nd sem	14	sukshayep@gmail.com	6364557609
64	03/08/2020 0:19	Vidya suresh jayakar	B.Sc. 4th Sem.	14	jayakarvidya@gmail.com	8762340006
65	03/08/2020 0:30	Pooja Sadashiv Jadhav	B.Sc. 6th Sem.	14	poojajadhav9757@gmail.com	7090093483
66	03/08/2020 0:33	Shrikant S Mali	B.Sc. 4th Sem.	14	shrimali9108685147@gmail.com	9108685147
67	03/08/2020 0:41	Ashwini Suresh Jugale	B.Sc. 6th Sem.	14	ashwinijugale@gmail.com	8088886566
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69	03/08/2020 0:31	Shrinath Ramesh Waddar	B.Sc. 4th Sem.	14	shrinathwaddar123@gmail.com	6360654932
70	02/08/2020 23:47	Shivaling Goture	B.Sc. 4th Sem.	12	shivaling.goture@gmail.com	9353049422
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72	03/08/2020 0:28	Varsha jadhav	B.Sc. 4th Sem.	12	varshajadhav3483@gmail.com	9945173483
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76	02/08/2020 23:53	Priyanka Dadasaheb	B.Sc. 6th Sem.	10	priyankakesarkar3456@gmail.com	9535838304
77	02/08/2020 23:58	Rohan Patil	B.Sc. 6th Sem.	10	sachin9921487487@gmail.com	8217604536
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79	03/08/2020 0:26	Muskan F Inamdar	B.Sc. 4th Sem.	10	muskaninamdar570@gmail.com	8073892283
80	03/08/2020 0:04	Swapna J Gorawade	B.SC 6 th sem	10	swapnajg1999@gmail.com	8364758496
81	02/08/2020 23:46	Simran Nadaf	BSc 2 nd sem	8	yaseennadaf47@gmail.com	8105497806
82	02/08/2020 23:59	samarth shiraganve	B.Sc. 6th Sem.	6	samarthshiraganve98@gmail.com	6362426466
83	03/08/2020 0:09	Pallavi chougule	B.Sc. 4th Sem.	4	pallavichougule490@gmail.com	9380432918

  
HOD

Head

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K.L.E's G. I. B. College, Nipani.

  
IOAC Co-ordinator

K.L.E's G. I. B. College, Nipani.

  
Principal

PRINCIPAL  
K.L.E. Society's

G. I. Bagewadi College, Nipani.



K. L.E. Society's

G.I. Bagewadi Arts, Science and Commerce College, Nipani, 591237


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Department of Mathematics

Result Sheet of Aptitude Test 2019-20 (Online), on 3.8.2020

S. No.	Name of the student	Class	Score out of 50	Prize
1	Abhishek S. Madiwal	B.Sc IV Sem.	44	1st
2	Vivek J Dhamanemath	B.Sc IV Sem.	40	2nd
3	Laxmi Prakash Sansuddi	B.Sc VI Sem.	38	3rd
4	Sonali Chandrakant Madiwal	B.Sc IV Sem.	38	3rd
5	Shruti Patil	B.Sc IV Sem.	38	3rd
6	Shebarani Nagannavar.	B.Sc VI Sem.	38	3rd

First prize winner Sri. Abhishek S. Madiwal will get cash prize of Rs. 500 instituted by Dr. (Smt.) M. M. Shankrikopp, HOD of Mathematics

  
HOD  
Head  
Department of Mathematics  
K.L.E's G. I. B. College, Nipani.

  
IQAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
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G. I. Bagewadi College, Nipani.







K.L.E. Society's

**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI**

Reaccredited at 'A' Level by NAAC with CGPA 3.35

**Department of Mathematics**

**Certificate**

COURSE CODE : BScMC 2019

This is to certify that Mr./Miss/ Pooja Jadhav

of B.sc VI Semester has successfully completed a certificate course in

**Reasoning and Quantitative Aptitude** during the year 2019-20

Head

Department of Mathematics



PRINCIPAL





K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237

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Website: www.klegibnnpn.edu.in E-mail: klegib\_npn@yahoo.co.in Ph.: 08338-220116

**REPORT ON CERTIFICATE COURSE  
FOR THE YEAR 2019-20**

Name of the Department	Mathematics	
Name of the Event Organized	Certificate Course	
Title of the Event	Reasoning and Quantitative Aptitude	
Date of the Event Organized	09/02/2020	48 hours
Name of the Convener	Mr. S. A. Chougale	
No of Students Enrolled	32	
Mode of Classes Conducted	Online	
Date of Final Exam Conducted	03/08/2020	
Mode of Exam Conducted	Online (Google Form)	
No of Students Appeared for Final Exam	19	
Name of the Expert with Designation	Faculty Members	
Objectives of the Event	<ul style="list-style-type: none"><li>➤ To improve analytical skills</li><li>➤ Practice for competitive exams</li></ul>	
Outcome of the Event	<ul style="list-style-type: none"><li>➤ It helps the students who are appearing for Navy, Army, Air force, SSC, FDA, SDA, KAS exams</li><li>➤ Some students got selected for campus interviews, Army and Navy</li></ul>	

  
IQAC Coordinator  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
HOD  
Head  
Department of Mathematics  
K.L.E's G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



**Department of Political Science**  
**Certificate Course in the "Art of Public Speaking" -2019-20**

Registration fees: Rs.50/-

**LIST OF STUDENTS**

S.L.No	Name of the student	Class
1	Bahubali Anagale	BA 5 <sup>th</sup> Semester
2	Bhushan Kamagouda	BA 5 <sup>th</sup> Semester
3	Bipin Basannavar	BA 5 <sup>th</sup> Semester
4	Chetana Upadhye	BA 5 <sup>th</sup> Semester
5	Deepa Shingade	BA 5 <sup>th</sup> Semester
6	Firoj Khan Khanu	BA 5 <sup>th</sup> Semester
7	Gangavva Hiravennavar	BA 5 <sup>th</sup> Semester
8	Gayatri Patil	BA 5 <sup>th</sup> Semester
9	Gazala Gavandi	BA 5 <sup>th</sup> Semester
10	Harshita Yadav	BA 5 <sup>th</sup> Semester
11	Komal Patil	BA 5 <sup>th</sup> Semester
12	Mallappa Lavate	BA 5 <sup>th</sup> Semester
13	Mayuri Kamagouda	BA 5 <sup>th</sup> Semester
14	Namira Inamdar	BA 5 <sup>th</sup> Semester
15	Pallavi Chougale	BA 5 <sup>th</sup> Semester
16	Pallavi Khurade	BA 5 <sup>th</sup> Semester
17	Pooja Patil	BA 5 <sup>th</sup> Semester
18	Priya Bhoje	BA 5 <sup>th</sup> Semester
19	Ratna B	BA 5 <sup>th</sup> Semester
20	Reshma Mutnale	BA 5 <sup>th</sup> Semester
21	Sachin Khot	BA 5 <sup>th</sup> Semester
22	Sahana Bagi	BA 5 <sup>th</sup> Semester
23	Soundarya Bansode	BA 5 <sup>th</sup> Semester
24	Sangeeta Mali	BA 5 <sup>th</sup> Semester
25	Satyavva Koote	BA 5 <sup>th</sup> Semester
26	Shivani Chandagage	BA 5 <sup>th</sup> Semester
27	Sneha Mangasule	BA 5 <sup>th</sup> Semester
28	Soundarya Kabbur	BA 5 <sup>th</sup> Semester
29	Vandana Malaj	BA 5 <sup>th</sup> Semester
30	Praartha Paramaje	BA 5 <sup>th</sup> Semester

  
Convener



  
HOD  
Department of Political Science  
K.L.E's G.I.B. College, Nipani.



# **THE ART OF PUBLIC SPEAKING**

## **SYLLABUS**

**Unit 1: Meaning and Myths Surrounding the Public Speaking**

**Unit 2: Elements of Speech Communication Process**

**Unit 3: Fear of Public Speaking: How to overcome it?**

**Unit 4: Characteristics of Effective Public Speakers**

**Unit 5: How to open a talk?**

**Unit 6: How to close the talk?**



**Department of Political Science**  
**Certificate Course in the "Art of Public Speaking" -2019-20**

**TIME - TABLE**

**Class :BA 5<sup>th</sup> Semester**

<b>Days</b>	<b>9AM-10AM</b>	<b>10AM-11AM</b>	<b>12PM-1PM</b>	<b>4PM-5PM</b>
<b>Monday</b>	APS			
<b>Tuesday</b>	APS			
<b>Wednesday</b>				
<b>Thursday</b>				
<b>Friday</b>				APS
<b>Saturday</b>				APS

  
**HOD H.O.D**

Department of Political Science  
K.L.E's G.I.B. College, Nipani.



  
**Principal**  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.

KLE Society's

Certificate Code - BAPS-2019 -20

# G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI

Department of Political Science



## ~ Certificate ~

This is to Certify that Mr/Ms Bahubali Anagale  
of B.A V Semester has Successfully Completed  
a Certificate Course in "THE ART OF PUBLIC SPEAKING" During The Year 2019 - 20

Head

Department of Political Science



Principal



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# **Certificate Course**

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**SELF EMPLOYMENT AND  
ENTREPRENEURSHIP DEVELOPMENT**

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**2019-2020**

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**K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

**Accredited at 'A' level by NAAC with CGPA 3.35**

**(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)**

**Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegibnnpn@yahoo.co.in](mailto:klegibnnpn@yahoo.co.in) Ph.: 08338-220116**

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## **Department of Economics**

### **Certificate Course 2019-20**

#### **Index**

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- 2. BOS approval**
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**K.L.E. Society's  
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE UG AND PG COLLEGE, NIPANI**

**DEPARTMENT OF ECONOMICS**

**Certificate Course: 2019-20**

**SELF EMPLOYMENT AND ENTREPRENEURSHIP  
DEVELOPMENT**

  
**Prof. M. S. Vanaki**

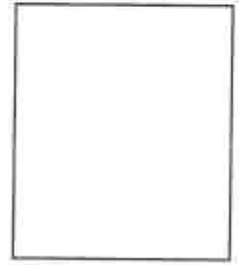
Course Co-ordinator

  
**Dr. B. S. Kamble**

Head, Department of Economics



**K.L.E. Society's**  
**G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE**  
**COLLEGE, NIPANI**  
**DEPATMENT OF ECONOMICS**  
**Certificate Course: 2019-20**



**Admission Form**

**Self Employment and Entrepreneurship Development Course**

1. Name :
  2. Class :
  3. Reg No :
  4. Date of Birth :
  5. Gender :
  6. Category :
  7. Address(Residential)
- With Cell no/Phone no :


Date:



Signature

**K.L.E. Society's**  
**G.LBAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI**  
**Certificate Course: 2019-20**  
**Self Employment and Entrepreneurship Development**  
**Student Enrollment List**

SI No	Name	Class/Sem	Signature
1.	Apeksha A Mahajan	B.A II Sem	
2.	Ashok R Hegade	B.A II Sem	
3.	Deepali A Kadam	B.A II Sem	
4.	Komal M Sutar	B.A II Sem	
5.	Laxmi V Karegar	B.A II Sem	
6.	Naveen B Naslapure	B.A II Sem	
7.	Pratham N Kamble	B.A II Sem	
8.	Pratikdha D Patil	B.A II Sem	
9.	Priyanaka M Gandagudi	B.A II Sem	
10.	Rahul R Rooge	B.A II Sem	
11.	Ryappa L Koulapure	B.A II Sem	
12.	Sachin P Malage	B.A II Sem	
13.	Sagar A Bhikku	B.A II Sem	
14.	Sanju M Kode	B.A II Sem	
15.	Shivaji M Divate	B.A II Sem	
16.	Shruti S Patil	B.A II Sem	
17.	Sweta S Kamble	B.A II Sem	
18.	Simran Kelagade	B.A II Sem	
19.	Sonali A Khot	B.A II Sem	
20.	Varsharani R Sankapal	B.A II Sem	
21.	Vishal C Khot	B.A II Sem	
22.	Shivaji B Dhangar	B.A II Sem	
23.	Jyoti Chougule	B.A II Sem	
24.	Bira S Gavade	B.A II Sem	
25.	Mahadev Pujari	B.A II Sem	

  
Course Co-ordinator  
Department

  
Head of the



  
PRINCIPAL  
G.L. Bagewadi Arts, Science &  
Commerce College, NIPANI.



## Certificate Course U.G. Students

### Self Employment and Entrepreneurship Development Course

#### 1. RATIONALE OF COURSE

The emerging concept of self-reliance at individual and national level - has significant impact on current developing economy. Future social expectations towards engineering professionals would be certainly as job creators and not as purely job seekers. Upgraded technological and changing economic environment has opened up wide horizons of business areas-including in service sectors too. This course deals with the key concern areas of self-employment and entrepreneurship development. This course is directed to help students to develop and shape their creativity and to understand peripheral influencing aspects. The content will certainly help students to think in a direction to establish a new enterprise using fundamental knowledge.

#### 2. LIST OF COMPETENCY.

The course content should be taught and implemented with the aim to develop different types of skills so that students are able to acquire following competencies:

1. Develop entrepreneurship and self-employment abilities to start any venture
2. Plan, use, monitor and control resources optimally and economically.

#### 3. COURSE OUTCOMES /OBJECTIVES

The theory should be taught and practical should be carried out in such a manner that students are able to acquire different learning outcomes

1. Identify entrepreneurial quality.
2. Develop the ability to select potential areas for self-employment.
3. Select appropriate agency for technical and financial support.
4. Prepare project setup planning and project report.
5. Identify risk factors of project and their remedial measures



**Certificate Course U.G. Students**  
**Self Employment and Entrepreneurship Development Course**  
**Syllabus**

Units	Contents
Unit: I Introduction to self-employment and entrepreneurship development.	<p>1.1 Introduction of self-employment</p> <ol style="list-style-type: none"> <li>i. Concept and need in present Indian job market context.</li> <li>ii. Characteristics of self-employment areas</li> <li>iii. Broader ways to identify self employment areas</li> </ol> <p>1.2. Concept and importance of productivity, quality, cost consciousness and customers' satisfaction.</p> <p>1.3 Types of enterprise</p> <ol style="list-style-type: none"> <li>i. Micro</li> <li>ii. Small</li> <li>iii. medium enterprises</li> </ol>
Unit II Entrepreneurial Support Agencies	<p>2.1. Definition – Micro, small and medium industries.</p> <p>2.2. Registration process of an enterprise with Government agencies.</p> <p>2.3. Name, type and role of state and national level support agencies for:</p> <ol style="list-style-type: none"> <li>i. Sources of information.</li> <li>ii. Financial assistance.</li> <li>iii. Technical assistance.</li> <li>iv. Training.</li> </ol> <p>2.4 Current state &amp; national level promotional schemes for establishment of new enterprise</p>
Unit :III Project Proposal Planning	<p>Project report</p> <ol style="list-style-type: none"> <li>i. Meaning of project planning and report.</li> <li>ii. Feasibility study</li> </ol> <ol style="list-style-type: none"> <li>i. Details required for preparing project plan.</li> <li>ii. Project cost estimation.</li> <li>iii. Cost, Volume and Profit (CVP) analysis.</li> <li>iv. Preliminary project report (PPR) and detailed project report (DPR).</li> </ol>
Unit :IV Enterprises and Risk management.	<p>1. Decision making under risk</p> <p>2. Methods of risk management.</p> <p>3. Strength, Weakness, Opportunity and Threat (SWOT) analysis.</p>
Unit – V Case Study and Field Visit	<p>Case studies.: At least two for success and two for failure  Analyze success and failures of entrepreneur &amp; self employer and integrate positive conclusions.</p> <ol style="list-style-type: none"> <li>i. Important features.</li> <li>ii. Reasons for success and failures.</li> <li>iii. Analyzing success and failure criteria.</li> <li>iv. Integration of case analysis conclusions in enterprise management for improvement.</li> </ol>
Field visit	Two days



## LEARNING RESOURCES

### I .List of Books

1. Developing Entrepreneurship Pareek & Co. Learning systems, Delhi.
2. Entrepreneurship & Venture - Management Clifford and Bombak, Joseph R. Momanso.
3. Planning an Industrial unit J. N. Vyas.
4. Small Industries management Karmakar M.B.
5. Manual for the preparation of industrial - feasibility studies UNIDO
6. New project opportunities GITCO
7. Creativity Pradeep Khandwala
8. Project profile for reserved - Development commissioner SSI, Items - VOI, I, II & III New Delhi. Small scale industry - Ministry of Industry Govt. of India. Policy & Perceptive, Dialogue with the Entrepreneur – GSFC, Import-Export Policy for SSI - Govt. of India.

Entrepreneurship development and Management R.K.Singal S.K.Kataria and Sons. B) List of II.

### II. Learning Websites.

- i. <http://www.ediindia.org>
- ii. <http://niesbud.nic.in/docs/SelfEmploymentBook.pdf>
- iii. <http://smallb.in/> iv. <http://www.msme.gov.in/>
- v. <http://nimsme.org/>
- vi. <http://www.nsic.co.in/> Self Employment And Entrepreneurship




  
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## Course Content

### Unit Design

UNIT	TITLE	TEACHING HOURS
I	Introduction to self employment and entrepreneurship Development.	10
II	Entrepreneurial Support Agencies	8
III	Project Proposal Planning	8
IV	Enterprises and Risk management	4
V	Case Study and field Visit. Theory	6
Total		36
Field visit : Two days		

• Course co-ordinator	Prof. M. S. Vanaki
• Resource Persons	DIC Belgaum
• Course Intake	40 students
• Fee structure	Rs. 50 per student
• Course period	3 months Jan 1 <sup>st</sup> , 2020 to March 15 <sup>th</sup> , 2020
• Weekly	3 hours
• Test	<b>ONE TEST, DURATION ONE HOUR THIRTY MINUTES</b>

  
Course Co-ordinator

  
Head of the Department



  
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**DEPARTMENT OF ECONOMICS**

**Certificate Course: U. G. Students**

**Self Employment and Entrepreneurship Development**

Day	Time
Thursday	4-5pm
Friday	4-5pm
Saturday	4-5pm

Staff Members

Dr. B. S. Kamble

Prof. M.S. Vanaki



Course Co-ordinator



Head of the Department



  
PRINCIPAL  
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Commerce College, NIPANI.



Department of Economics  
Certificate Course Test -2019-20

Topic: Self Employment and Entrepreneurship Development

Date: 14-03-2020

Time: 3pm to 4.30pm

Marks: 50

Sl. No	Name of the Students	Class	Marks
1.	Apeksha A Mahajan	B.A II Sem	32
2.	Ashok R Hegade	B.A II Sem	25
3.	Deepali A. Kadam	B.A II Sem	38
4.	Komal M. Sutar	B.A II Sem	30
5.	Laxmi V. Karegar	B.A II Sem	35
6.	Naveen B. Naslapure	B.A II Sem	38
7.	Pratham N. Kamble	B.A II Sem	43
8.	Pratiksha D. Patil	B.A II Sem	42
9.	Priyanka M. Gandagudi	B.A II Sem	30
10.	Rahul R. Rooge	B.A II Sem	32
11.	Rayappa L. Koulapure	B.A II Sem	38
12.	Sachin P. Malage	B.A II Sem	42
13.	Sagar A. Bhikku	B.A II Sem	42
14.	Sanju M. Kode	B.A II Sem	40
15.	Shivaji M. Divate	B.A II Sem	38
16.	Shruti S. Patil	B.A II Sem	35
17.	Sweta S. Kamble	B.A II Sem	38
18.	Simran Kelagade	B.A II Sem	36
19.	Sonali A. Khot	B.A II Sem	38
20.	Varsharani R. Sankapal	B.A II Sem	40
21.	Vishal C.Khot	B.A II Sem	45
22.	Shivaji B. Dhangar	B.A II Sem	40
23.	Jyoti Chougule	B.A II Sem	38
24.	Bira S. Gavade	B.A II Sem	32
25.	Mahadev Pujari	B.A II Sem	38



  
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19-20



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Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)/[klegibnbotany@gmail.com](mailto:klegibnbotany@gmail.com) Ph.: 08338-220116

## DEPARTMENT OF BOTANY

Ref. GIBN/Bot/CCBot /Hort-1/2019-20

Date:

### NOTICE

Department of Botany is introducing a "Certificate Course in Horticultural techniques-Floriculture" in the month of August 2019. The interested students can enroll their names to Smt. S.S.Sunnal, Department of Botany on or before **05<sup>th</sup> August 2019.**

  
HOD  
HEAD  
Department of Botany  
G. I. Bagewadi College, Nipani.



  
PRINCIPAL  
Principal,  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

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**Certificate course in Floriculture**

**List of students enrolled for Certificate Course 2019-20**

Sl.No	Roll.No	Name
1	105	Abhinandan Kolapure
2	107	Aishwarya Killedar
3	108	Aishwarya Punde
4	111	Chetana Belavi
5	112	Chinmayi Indi
6	114	Gurunath Arekar
7	115	Janhavi Bhatale
8	116	Kajal Bhoite
9	117	Kamartaj Khanapure
10	118	Kashinath Savantre
11	120	Madhuri Bhivase
12	127	Nikhita Havale
13	128	Nikita Magadum
14	129	Parshwajeet Patil
15	132	Prajakta Bachane
16	133	Prajakta Patil
17	134	Pranjali Potadar
18	138	Priyanka Palakar
19	139	Pushpadant Upadhye
20	144	Sabli Makandar
21	150	Sanket Jadhav
22	158	Sumit Chougule
23	160	Umesh Pujari



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E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) / [klegibnbotany@gmail.com](mailto:klegibnbotany@gmail.com)

Ph.: 08338-220116

## DEPARTMENT OF BOTANY

### Syllabus for Certificate Course in Horticultural techniques -Floriculture

#### Unit 1:

- Methods of Propagation: Natural and Artificial

8 hrs

#### Unit 2: Green House technology:

- Introduction , advantages and limitations
- Types and structure.
- As applied to ornamental, vegetable, fruit and medicinal plants

8 hrs

#### Unit 3: Harvest Technology:

- Management of Flowers
- Post harvest technology

8 hrs

#### Unit 4: Weed Management:

- Invasive weeds
- Weed control

6 hrs

#### Practicals:

8 hrs

1. Tools used in horticulture
2. Study of methods of vegetative propagation
3. Flower arrangement
4. Vegetables carving

CONVENER: Prof. (smt) S.B.Patil .H.O.D.

RESOURCE PERSONS: Smt. S.S.Sunnal

Dr. Smt. S. P. Shiragave

#### EVALUATION METHOD:

- Theory: One paper of one and half hrs duration for 30 marks
- Practical: 1 hour duration for 20 marks

#### REFERENCE:

- Text Book of Horticulture- K. Manibhushan Rao,- Macmillan India Ltd.
- Introduction to Horticulture- N.Kumar, 1<sup>st</sup> edn., Rajalaksmi Publication, 1996
- C.R. Adams, *Principles of Horticulture* Butterworth-Heinemann; 5th edition (11 Aug 2008), ISBN 0-7506-8694-4
- <https://www.rhs.org.uk/>



  
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Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in)

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E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) / [klegibnbotany@gmail.com](mailto:klegibnbotany@gmail.com)

Ph.: 08338-220116

## DEPARTMENT OF BOTANY

Ref.- GIBN/Bot/CCBot1/Hort/2019-20

Date:

### Certificate Course in Horticultural techniques- Floriculture

#### Introduction:

Horticulture is the branch of agriculture that deals with the art, science, technology, and business of growing plants. It includes the cultivation of medicinal plants, fruits, vegetables, nuts, seeds, herbs, sprouts, mushrooms, algae, flowers, seaweeds and non-food crops such as grass and ornamental trees and plants. It also includes plant conservation, landscape restoration, landscape and garden design, construction, and maintenance, and arboriculture. Inside agriculture, horticulture contrasts with extensive field farming as well as animal husbandry

#### Programme Objective:

Through Horticulture, one can apply their knowledge, skills, and technologies used to grow intensively produced plants for human food and non-food uses and for personal or social needs.

They can work to propagate plants and cultivate them with the aim of improving plant growth, yields, quality, nutritional value, and resistance to insects, diseases, and environmental stresses.

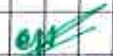
It makes people to work as gardeners, growers, therapists, designers, and technical advisors in the food and non-food sectors of horticulture. Horticulture even refers to the growing of plants in a field or garden.

**Course Duration:** Three Months (30 hrs theory + 10 hrs practical= 40 hours)



Reg. No.	Roll No.	Student Name	13.8.19	15.8.19	18.8.19	21.8.19	24.8.19	27.8.19	30.8.19	31.8.19	6.9.19	7.9.19	13.9.19	20.9.19	21.9.19	Test	12.10.19	15.8.19	18.8.19	24.8.19	27.8.19	30.8.19	12.10.19	25	26	27	28	29	30	31		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	18	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Sl.No	Roll. No	Name																														
1	105	Abhinandan Kolapure	1	2	3	.	.	.	4	5	6	7				27		1	2	3	.	4										12
2	107	Aishwarya Killedar	1	2	3	4	5	.	6	.	7	8				27		1	2	3	.	4										14
3	108	Aishwarya Punde	1	2	3	4	.	.	.	.	5	.				25		1	.	.	.	2										18
4	111	Chetana Belavi	1	2	3	4	5	6	7	8	9	10				28		1	2	3	4	5										18
5	112	Chinmayi Indi	1	2	3	4	5	6	7	8	9	10				28		1	2	3	4	5										18
6	114	Gurunath Arekar	1	2	3	4	5	6	7	8	9	10				26		1	2	3	4	5										18
7	115	Janhavi Bhatale	1	2	3	4	5	6	7	8	9	10				28		1	2	3	4	5										18
8	116	Kajal Bhoite	1	2	.	.	3	4	5	.	.	6				26		1	2	3	4	5										18
9	117	Kamartaj Khanapure	1	2	3	.	.	4	5	6	7	8				24		1	2	3	4	5										17
10	118	Kashinath Savantre	1	2	3	.	.	4	.	.	5	6				22		1	2	.	.	.										10
11	120	Madhuri Bhivase	1	2	3	4	.	5	.	6	.	.				24		1	2	.	.	3										16
12	127	Nikhita Havale	1	2	3	4	5	6	.	.	.	.				25		1	2	3	.	4										16
13	128	Nikita Magadum	1	.	.	2	3	4	5	.	6	7				27		1	2	.	.	3										15
14	129	Parshwajeet Patil	1	.	.	.	.	2	3	4	.	5				22		1	.	.	.	2										10
15	132	Prajakta Bachane	1	2	3	4	5	.	.	6	7	8				26		1	2	.	3	4										16
16	133	Prajakta Patil	1	2	.	3	4	5	.	.	6	7				28		1	2	3	.	4										16
17	134	Pranjali Potadar	1	2	3	.	.	.	.	4	5	6				AB		1	.	.	.	2										14
18	138	Priyanka Palakar	1	2	3	4	5	6	.	7	8	9				28		1	2	3	4	5										18
19	139	Pushpadant Upadhye	1	2	3	4	5	6	7	8	9	10				28		1	2	3	4	5										18
20	144	Sabil Makandar	1	.	.	.	.	2	3	.	4	5				20		1	2	3	.	.										16
21	150	Sanket Jadhav	1	2	3	.	.	.	.	.	4	.				20		1	.	.	2	.										14
22	158	Sumit Chougule	1	2	3	.	.	.	4	5	.	.				AB		1	.	2	.	3										14
23	160	Umesh Pujari	1	2	3	4	5	6	.	.	.	7				26		1	2	.	.	3										16



  
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28  
30

K.L.E.Society's  
G.I.Bagewadi Arts, Science and Commerce College, Nipani  
Examination 2019-20  
Certificate Course in Floriculture

Time: 30 mins

Marks: 30

Roll.No. 139

Tick the correct answer

All Questions carry Equal Marks

2 X 15= 30

1. A lawn can be described as:

- (a). Green carpet.
- (b). A land covered with lawn grass.
- (c). A piece of land in a garden.
- (d). A beautifully designed piece of land with green grass.

2. Which is known as miniature garden?

- (a). Mughal garden.
- (b). English garden.
- (c). Japanese garden.
- (d). Italian garden.

3. Floribundas are cross between?

- (a). Hybrid Teas × Perpetual Polianthas.
- (b). Hybrid Perpetual × Tea Rose.
- (c). Tea Rose × Perpetual Polianthas.
- (d). Perpetual Polianthas × Hybrid Perpetual.

4. Which of the following is not used for preserving flowers?

- (a). Sugar.
- (b). Polyols.
- (c). KCL.



~~(d). H<sub>2</sub>SO<sub>4</sub>.~~

**5. Which is used in atomic garden**

- (a). C11.
- (b). Cobalt- 60 and Caesium- 130.
- (c). EMS and X- Rays.
- (d). UV rays.

**6. In home garden, area of lawn should not be more than?**

- (a). 70%.
- (b). 30%.
- (c). 20%.
- (d). 40%.

**7. Spores are used to propagate?**

- 6+6
- (a). Mosses.
  - (b). Ferns.
  - (c). Asparagus.
  - (d). Bromeliads.

**8. Which is Mutation variety of Jasmine?**

- 7
- (a). Pitchi.
  - (b). Bio- 13..
  - (c). MTU- 8.
  - (d). Co- 9.

**9. The lines in Hogarth Course are?**

- (a). Strait lines.
- (b). curved lines.
- (c). Serpentine curved lines.
- (d). Zigzag lines.

**10. Bottom heating is an important process in the propagation of which flower plant?**

- (a). Rose.
- (b). Cold region's flower.
- (c). Bougainvillea.
- (d). English primrose

**11. The term 'sours' related with which flower plant?**

- (a). Gudhal.
- (b). Lilly.

(c). Jasmine.  
~~(d). Tulip.~~

12. Scienti

(a). Liatr  
(b). Cau  
(c). Bo  
(d). C

13

(c). Jasmine.

(d). Tulip.

12. Scientific name of blue false indigo is?

(a). *Liatris spicata*.

(b). *Caulophyllum thalictroides*.

(c). *Baptisia australis*.

(d). *Cagnita indica*.

13. For improving vase life of cut flower it should be kept in....

(a). Red or blue, 500 lux or more.

(b). Red or blue, 2000 lux or more.

(c). Red or violet 1000 lux or more.

(d). Red or violet 1500 lux or more.

14. The size range of BONSAI OF BONSAI is?

(a). 1.5 - 2 inch.

(b). 2 - 4 inch.

(c). 2 - 6 inch.

(d). 3 - 7 inch.

15. Silver Thiosulphate is not used in?

(a). Carnation.

(b). Tulip.

(c). Lily.

(d). Rose.



# CERTIFICATE



**K.L.E. SOCIETY'S**

**G I BAGEWADI ARTS, SCIENCE & COMMERCE**

**COLLEGE NIPANI – 591 237 (Karnataka-India)**

(Reaccredited by NAAC at 'A' Level with CGPA 3.254)

**“Certificate Course in Horticultural Techniques”**

*Conducted By*

**DEPARTMENT OF BOTANY**

This is to certify that *Mr./Ms.* Chinmai Ineli of

B. Sc

has completed the Certificate Course in

*Horticultural Techniques satisfactorily and secured \_\_\_\_\_ grade.*

  
**HEAD**

**DEPT. OF BOTANY**



  
**PRINCIPAL**





K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in)

E-mail: [klegib\\_nnpn@yahoo.co.in](mailto:klegib_nnpn@yahoo.co.in)/ [klegibnbotany@gmail.com](mailto:klegibnbotany@gmail.com)

Ph: 08338-220116

## DEPARTMENT OF BOTANY

Ref.:

Date: 28.10.2019

### Report on Certificate course in Horticultural Techniques- Floriculture 2019-20

Name of the Department	Botany
Name of the Event Organized	Certificate course
Title of the Event	Horticultural Techniques- Floriculture
Date of the Event Organized	August to October 2019
Name of the Convener	Smt. S.B.Patil
Participants	V semester Botany Students
No. of Participants	23
Name of the Expert with Designation	Smt. S.S.Sunnal and Dr. S.P.Shiragave
Contact Number & Address of the Expert	K.L.E.GI.Bagewadi College, Nipani
Objectives of the Event	1. One can learn about cultivation of Flowering plants 2. Plant improvement can be achieved 3.To train the students for entrepreneurship
Outcome of the Event	1. Students learnt about cultivation of Flowering plants 2. They learnt how Plant improvement can be achieved 3. They became trained to make floral decoration, bouquet.

  
HOD  
Nipani

Department of Botany  
K.L.E.'s G. I. B. College, Nipani.

  
IQAC Coordinator  
K.L.E.'s G. I. B. College, Nipani.

  
PRINCIPAL  
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G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.




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G. I. Bagewadi Arts, Science, & Commerce College, Nipani  
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## Department of Commerce

### NOTICE

All the students of B.Com V Semester are hereby requested to enroll your names for Certificate Course on Fundamentals of Digital Marketing on or before 07/09/2019.

  
**Head of Department**  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.



  
**Principal**  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

**K.L.E. Society's**  
**G. I. Bagewadi Arts, Science, & Commerce College, Nipani**  
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**Department of Commerce**  
**Enrollment List for Certification Course 2019-20**

**Title: Fundamentals of Digital Marketing**

**Class: B.Com V Sem**

Sl. No.	Reg. No	Name	Sign
1	C1730211	Annapurna Kadam	
2	C1730212	Apoorva Kamate	
3	C1730213	Apurva Kajave	
4	C1730214	Ashwini Malge	
5	C1730215	Ashwini Nasalapure	
6	C1730216	Basavaraj Kabadige	
7	C1730217	Darshan Dandage	
8	C1730218	Nikita Dhadake	
9	C1730221	Houshali Hadakar	
10	C1730222	Jinagouda Patil	
11	C1730223	Jooli Havale	
12	C1730224	Jyoti Chavan	
13	C1730225	Jyotika Jadhav	
14	C1730226	Kaveri Hadakar	
15	C1730228	Kiran Mamadapure	
16	C1730229	Kirti Surendra Parit	
17	C1730230	Kirti Patil	
18	C1730231	Kunjal Totager	
19	C1730232	Laxmi Rayagoudanavar	
20	C1730233	Manish Kuppanatte	

**HOD Lead**  
 Department of Commerce  
 K.L.E.'s G. I. B. College, Nipani.



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 G.I. Bagewadi Arts, Science &  
 Commerce College, NIPANI.

K.L.E. Society's  
**G. I. Bagewadi Arts, Science, & Commerce College, Nipani**  
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**DEPARTMENT OF COMMERCER**

**Certificate Course in Fundamentals of Digital Marketing**

**Syllabus**

Sl.No.	Topics	Duration
01	Introduction to the Digital Marketing Digital v/s Real Marketing, Digital Marketing Channels.	6 hrs
02	Creating Initial Digital Marketing Plan , Content Management, SWOT Analysis, Target group Analysis,-	06 hrs
03	Web Design, Optimization of Websites, Social Media Marketing etc.	08 hrs
04	Email Marketing, Email Marketing Plan, Email Marketing Campaign analysis, keeping up with conversions. CRM Techniques in details.	10 hrs



HOD

Dept. of Commerce



( Abhijeet .A. Tavakari )

  
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Commerce College, NIPANI



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Department of Commerce

**Certificate Course on Fundamentals of Digital Marketing**

**TIME - TABLE**

<b>Day</b>	<b>Time</b>	<b>Faculty</b>
Monday	4.00 - 5.00 pm	Prof. Abhijeet Tavakari
Tuesday	4.00 - 5.00 pm	Prof. Abhijeet Tavakari
Wednesday	4.00 - 5.00 pm	Prof. Abhijeet Tavakari

**Duration: 30 Hours**



  
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Commerce College, NIPANI.



**K.L.E. Society's**  
**G. I. Bagewadi Arts, Science, & Commerce College, Nipani**  
**[Re-Accredited at 'A' Grade by NAAC with 3.35 CGPA]**

**Department of Commerce**  
**Marks List for Certification Course 2019-20**

Title: Fundamentals of Digital Marketing

Class: B.Com V Sem

Sl. No.	Reg. No	Name	Marks
1	C1730211	Annapurna Kadam	45
2	C1730212	Apoorva Kamate	46
3	C1730213	Apurva Kajave	42
4	C1730214	Ashwini Malge	41
5	C1730215	Ashwini Nasalapure	40
6	C1730216	Basavaraj Kabadige	42
7	C1730217	Darshan Dandage	43
8	C1730218	Nikita Dhadake	48
9	C1730221	Houshali Hadakar	47
10	C1730222	Jinagouda Patil	45
11	C1730223	Jooli Havale	39
12	C1730224	Jyoti Chavan	41
13	C1730225	Jyotika Jadhav	46
14	C1730226	Kaveri Hadakar	48
15	C1730228	Kiran Mamadapure	40
16	C1730229	Kirti Surendra Parit	44
17	C1730230	Kirti Patil	48
18	C1730231	Kunjal Totager	40
19	C1730232	Laxmi Rayagoudanavar	38
20	C1730233	Manish Kuppanatte	41

  
HOD

Department of Commerce  
K.L.E.'s G.I. Bagewadi Arts, Science & Commerce College, Nipani.



  
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G.I. Bagewadi Arts, Science & Commerce College, NIPANI.

**KLE Society's**

**G I Bagewadi Arts, Science and Commerce College, Nipani**

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**DEPARTMENT OF COMMERCE & COMPUTER SCIENCE**

**ANSWER ANY FIVE OF THE FOLLOWING**

**(5\*10=50)**

1. Define Digital Marketing. Explain the types of web presences.
2. Explain different E-business models with examples.
3. What do you mean by payment gateways ? Explain the need and importance of payment gateways in online marketing.
4. Describe the opportunities created by internet marketing for unemployed people.
5. How could you leverage social media in order to promote your brand and increase consumer engagement ?
6. Brief some of the ethical and security standards to be adopted while using social media for marketing.



**K.L.E. Society's  
G. I. Bagewadi Arts, Science & Commerce College, Nipani  
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***Department of Commerce***

# ***Certificate***

This is to certify that Mr. / Ms. Jyoti Chavan

of *B.Com V Semester* has successfully completed certificate course in "*Fundamentals of Digital Marketing*" during the year 2019-2020.

  
**HOD**

**CONVENOR**



  
**PRINCIPAL**



**K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

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**Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegibnnpn@yahoo.co.in](mailto:klegibnnpn@yahoo.co.in) Ph.: 08338-220116**

**REPORT ON: Certificate Course on Fundamentals of Digital Marketing**

Name of the Department	Commerce
Name of the Event Organized	Certificate Course
Title of the Event	Fundamentals of Digital Marketing
Date of the Event Organized	10 September 2019
Name of the Convener	Prof. Abhijeet A. Tavakari
Participants	20
No. of Participants	Total 20 Teachers 00 Students 20
Name of the Expert with Designation	Prof. Abhijeet A. Tavakari, Lecturer
Contact Number & Address of the Expert	+919663718444 Hudco Colony, Nipani
Objectives of the Event	To understand the core components of Digital Marketing including search, digital display, email marketing, social media and mobile marketing.
Outcome of the Event	Students developed online presence in the field of Digital Marketing
Photo Gallery	

  
IQAC Coordinator

**IQAC Co-ordinator  
K.L.E's G. I. B. College, Nipani,**

  
HOD  
Head

**Department of Commerce  
K.L.E's G. I. B. College, Nipani.**



  
Principal  
PRINCIPAL

**G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.**

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K.L.E. Society's

**G.I. Bagewadi Arts, Science, Commerce and PG College,**

**Nipani-591237**

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Ph: 08338-220116, 220416

Website: [www.klegibcollege.com](http://www.klegibcollege.com)  
E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)


Ref:

Date : 23/1/2020


### Department of Physics

### Certificate Course in "Light Emitting Diodes"

All the B.Sc final year(PCM) students are here by informed that a Certificate course in "Light Emitting Diodes" will be conducted for the year 2019-20. The interested students can enroll their names to Prof(Smt) G. M. Madanalli on or before 31<sup>st</sup> January 2020. Registration fee for the course is Rs 100/- per student. Duration ; one month.

  
(Smt. G.M. Madanalli)  
Co-ordinator

  
HOD  
Head  
Department of Physics  
G.I. Bagewadi College, NIPANI

  
Principal  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI







K.L.E. Society's

**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

Ph: 08335-220116, 220416

Website: [www.klegibnnpn.org](http://www.klegibnnpn.org)  
E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

Application form for admission to Certificate Course in  
"LIGHT EMITTING DIODE" for the year 2019-20

To,  
HOD of Physics  
K.L.E. Society's G. I. Bagewadi College, Nipani



**PARTICULARS OF APPLICANT**

1) Full Name of the applicant

ROHAN BAJARAM DEVAKATE

2) Class : Bsc III<sup>rd</sup> [PCM]

3) Register number : 51717720

4) Category : PCM

5) Gender : Male


6) Address for correspondence:

1637, B Jalant ves, chikodi road, Nipani

Tal:- chikodi Dist:- Belgaum

Contact No.: 9741158708

7) E-mail ID : rohadevakate@gmail.com

  
Signature of Applicant





K.L.E. Society's

**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

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Website: [www.klegibnnp.org](http://www.klegibnnp.org)  
E-mail: [klegib\\_nnp@yahoo.co.in](mailto:klegib_nnp@yahoo.co.in)

**Application form for admission to Certificate Course in  
"LIGHT EMITTING DIODE" for the year 2019-20**

To,  
HOD of Physics  
K.L.E. Society's G. I. Bagewadi College, Nipani



**PARTICULARS OF APPLICANT**

1) Full Name of the applicant

Nutan Balasaheb Salunkhe

2) Class : B.Sc. III<sup>rd</sup> year

3) Register number : SL717680

4) Category : III @

5) Gender : Female

6) Address for correspondence:

At: Bhimapurwadi, Post: Galataga  
Tal: Chikkodi, Dist: Belgaum.




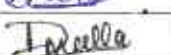


Contact No.: 8970819895 / 9781902476

7) E-mail ID : nutansalunkhe585@gmail.com



AD  
Signature of Applicant

**Application list for admission to Certificate Course in  
"LIGHT EMITTING DIODE" for the year 2019-20**

Sr. No	Name	Registration fees	Signature
1	Aayushi Kadam	100	
2	Aishwarya Mali	100	
3	Aishwarya Murabatte	100	
4	Aishwarya Padre	100	
5	Akash Shinde	100	
6	Aruna Hegade	100	
7	Ashwini Patil	100	
8	Asmita Kamble	100	
9	Bhagyashri Bedkihaile	100	
10	Bhagyashri Havale	100	
11	Chaitali Sadalage	100	
12	Deepa Kedarshetti	100	
13	Deepali Chougule	100	
14	Deepali Patil	100	
15	Dilshad Mulla	100	
16	Jyoti Bagade	100	
17	Jyoti Patil	100	
18	Jyoti sarapure	100	
19	Kavya Mane	100	
20	Keerti Kamate	100	
21	Komal Badake	100	
22	Komal Mali	100	
23	Komal Vite	100	
24	Laxmi Khot	100	
25	Laxmi Sausuddi	100	
26	Manasi Baradekar	100	
27	Mansoor Momin	100	
28	Mayuri Babar	100	
29	Mayuri Sadalage	100	
30	Mrunali Salunke	100	
31	Nikita Nadage	100	



32	Parvati	Chougule	100	<u>Chougule</u>
33	Pooja	Chilami	100	<u>P.S.chilami</u>
34	Pooja	Chougule	100	<u>Pooja</u>
35	Pooja	Jadav	100	<u>Pooja</u>
36	Pooja	Magadum	100	<u>Pooja</u>
37	Pooja	Patil	100	<u>Pooja</u>
38	Poonam	Khot	100	<u>Poonam</u>
39	Pradnya	Bhivashe	100	<u>Pradnya</u>
40	Prameela	Shetty	100	<u>Prameela</u>
41	Pratiksha	Patil	100	<u>Pratiksha</u>
42	Prerana	Potjale	100	<u>Prerana</u>
43	Priyanka	Kesarakar	100	<u>Priyanka</u>
44	Priyanka	Mahajan	100	<u>Priyanka</u>
45	Pushpa	Honashetti	100	<u>Pushpa</u>
46	Rajashree	khot	100	<u>Rajashree</u>
47	Sakshi	Hatagine	100	<u>Sakshi</u>
48	Sarika	Swami	100	<u>Sarika</u>
49	Shambala	Kumbar	100	<u>Shambala</u>
50	Shebarani	Nagannavar	100	<u>Shebarani</u>
51	Shital	Hujare	100	<u>Shital</u>
52	Shivaleela	Hirekodi	100	<u>Shivaleela</u>
53	Shivani	Patil	100	<u>Shivani</u>
54	Shubangi	Kesarkar	100	<u>Shubangi</u>
55	Shweta	Patil	100	<u>Shweta</u>
56	Sonali	Bharade	100	<u>Sonali</u>
57	Sonali	Jain	100	<u>Sonali</u>
58	Sonali	Patil	100	<u>Sonali</u>
59	Soundarya	Patil	100	<u>Soundarya</u>
60	Sujata	Kurani	100	<u>Sujata</u>
61	Sumati	Metri	100	<u>Sumati</u>
62	Sushama	Patil	100	<u>Sushama</u>
63	Sushma	Ankali	100	<u>Sushma</u>
64	Swapna	Gorawade	100	<u>Swapna</u>
65	Tanuja	Adiseri	100	<u>Tanuja</u>
66	Tejswini	Patil	100	<u>Tejswini</u>
67	Ummesalma	Mulla	100	<u>Ummesalma</u>



68	Vidya Jangade	100	<i>Deale</i>
69	Savita Pathade	100	<i>Pathade</i>
70	Nutan Babunkhe	100	<i>AB</i>
71	Muskan Shekhaji	100	<i>Muskan</i>
72	Rohan. R. Devakate	100	<i>Rohan</i>
73	Rahul. Horeure	100	<i>Rahul</i>



Coordinator



HOD

Head  
Department of Physics  
G.I. Bagewadi College, NIPANI

*ex*  
Principal

**PRINCIPAL**  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI





Department of Physics

Certificate Course in "Light Emitting Diodes"

**SYLLABUS**

Theory

**Unit I :**

5 hours

Basic Concepts - Semiconductors, Forward & Reverse bias, P-N junction diode, Symbol, Principle (electroluminescence.)

**Unit II :**

5 hours

Construction of LED  
Working of LED

**Unit III :**

5 hours

I-V characteristics  
Advantages & Disadvantages  
Applications

**Total = 15 hours**

**Practicals :**

1) Information about Components

5 hours

2) Study of I-V characteristics

5 hours

**Total = 10 hours**



## TIME TABLE

DAY	TIME
Monday	4.00 pm to 5.00 pm
Tuesday	4.00 pm to 5.00 pm
Wednesday	4.00 pm to 5.00 pm
Thursday	4.00 pm to 5.00 pm
Friday	4.00 pm to 5.00 pm

## Distribution of Syllabus

S. No.	Units	Name of The Teacher	Hours
1	I	Prof.G.M.Madanalli	5
2	II	Prof.Manoj Nandani	5
3	III	Prof.Manoj Nandani	5



*Prasad*  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.  
*He*

K.L.E's G.I.B.BAGEWADI COLLEGE,NIPPANI  
DEPARTMENT OF PHYSICS  
CERTIFICATE COURSE IN "LIGHT EMITTING DIODE"  
YEAR-2019/2020  
STUDENTS MARK LIST

SL.NO.	NAME OF THE STUDENTS	CLASS	MARKS
1	Aayushi Kadam	B.Sc VI SEM	19
2	Aishwarya Mali	B.Sc VI SEM	20
3	Aishwarya Murabatte	B.Sc VI SEM	22
4	Aishwarya Padre	B.Sc VI SEM	25
5	Akash Shinde	B.Sc VI SEM	24
6	Aruna Hegade	B.Sc VI SEM	25
7	Ashwini Patil	B.Sc VI SEM	20
8	Asmita Kamble	B.Sc VI SEM	19
9	Bhagyashri Bedkihale	B.Sc VI SEM	20
10	Bhagyashri Havale	B.Sc VI SEM	17
11	Chaitali Sadalage	B.Sc VI SEM	16
12	Deepa Kedarshetti	B.Sc VI SEM	20
13	Deepali Chougule	B.Sc VI SEM	22
14	Deepali Patil	B.Sc VI SEM	23
15	Dilshad Mulla	B.Sc VI SEM	24
16	Jyoti Bagade	B.Sc VI SEM	25
17	Jyoti Patil	B.Sc VI SEM	24
18	Jyoti sarapure	B.Sc VI SEM	21
19	Kavya Mane	B.Sc VI SEM	20
20	Keerti Kamate	B.Sc VI SEM	22
21	Komal Badake	B.Sc VI SEM	23
22	Komal Mali	B.Sc VI SEM	24
23	Komal Vite	B.Sc VI SEM	18
24	Laxmi Khot	B.Sc VI SEM	21
25	Laxmi Sausuddi	B.Sc VI SEM	20
26	Manasi Baradekar	B.Sc VI SEM	25
27	Mansoor Momin	B.Sc VI SEM	25
28	Mayuri Babar	B.Sc VI SEM	24
29	Mayuri Sadalage	B.Sc VI SEM	23
30	Mrunali Salunke	B.Sc VI SEM	19
31	Nikita Nadage	B.Sc VI SEM	20
32	Parvati Chougule	B.Sc VI SEM	17
33	Pooja Chilami	B.Sc VI SEM	22



34	Pooja	Chougule	B.Sc VI SEM	23
35	Pooja	Jadav	B.Sc VI SEM	24
36	Pooja	Magadum	B.Sc VI SEM	24
37	Pooja	Patil	B.Sc VI SEM	25
38	Poonam	Khot	B.Sc VI SEM	20
39	Pradnya	Bhivashe	B.Sc VI SEM	21
40	Prameela	Shetty	B.Sc VI SEM	23
41	Pratiksha	Patil	B.Sc VI SEM	25
42	Prerana	Potjale	B.Sc VI SEM	25
43	Priyanka	Kesarakar	B.Sc VI SEM	24
44	Priyanka	Mahajan	B.Sc VI SEM	23
45	Pushpa	Honashetti	B.Sc VI SEM	20
46	Rajashree	khot	B.Sc VI SEM	20
47	Sakshi	Hatagine	B.Sc VI SEM	19
48	Sarika	Swami	B.Sc VI SEM	18
49	Shambala	Kumbar	B.Sc VI SEM	25
50	Shebarani	Nagannavar	B.Sc VI SEM	20
51	Shital	Hujare	B.Sc VI SEM	21
52	Shivaleela	Hirekodi	B.Sc VI SEM	23
53	Shivani	Patil	B.Sc VI SEM	24
54	Shubangi	Kesarkar	B.Sc VI SEM	24
55	Shweta	Patil	B.Sc VI SEM	25
56	Sonali	Bharade	B.Sc VI SEM	25
57	Sonali	Jain	B.Sc VI SEM	23
58	Sonali	Patil	B.Sc VI SEM	24
59	Soundarya	Patil	B.Sc VI SEM	17
60	Sujata	Kurani	B.Sc VI SEM	18
61	Sumati	Metri	B.Sc VI SEM	19
62	Sushama	Patil	B.Sc VI SEM	20
63	Sushma	Ankali	B.Sc VI SEM	21
64	Swapna	Gorawade	B.Sc VI SEM	24
65	Tanuja	Adiseri	B.Sc VI SEM	25
66	Tejswini	Patil	B.Sc VI SEM	25
67	Ummesalma	Mulla	B.Sc VI SEM	20
68	Vidya	Jangade	B.Sc VI SEM	24
69	Savita	Pathade	B.Sc VI SEM	23



*[Signature]*  
Head

Department of Physics  
K.L.E's G. I. B. College, Nipani.

*[Signature]*  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

K.L.E. Society's  
G.I. Bagewadi College Nipani  
**B.Sc-VI SEMESTER**

Time: 12:00pm-1:30pm

Sub: PHYSICS (LED)

Max Marks: 25

**Answer the following Questions**

**1 x 5 = 5 Mark**

- 1) Define LED?
- 2) What Forward bias Semiconductor?
- 3) Mention the types of Semiconductor.
- 4) Write Two Advantages of LED?
- 5) Write Two Application of LED?

**Answer the following Questions**

**5x 2 = 10 Marks**

- 6) Write I-V characteristics of LED.
- 7) Explain P-N junction diode.

**Answer the following**

**10 x 1 = 10 Marks**

- 8) Explain the Construction & Working of LED.





KLE Society's

**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI-591237**



(Reaccredited by NAAC at 'A' Level with CGPA 3.254)

# Certificate

DEPARTMENT OF PHYSICS

This is to certify that Mr/Ms. Rohan Devakate

of B.Sc III Semester has successfully Completed Certificate Course in

"Light Emitting Diode" during the year 2019-2020.

  
Head of the Department



  
Principal



**K.L.E. Society's**  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**  
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**REPORT ON CERTIFICATE COURSE ON LIGHT EMITTING DIODE**

Name of the Department	Physics					
Name of the Event Organized	Certificate Course					
Title of the Event	Light Emitting Diode					
Date of the Event Organized	31/1/2020					
Name of the Convener	Smt.G.M.Madanalli					
Participants	81					
No. of Participants	Total	81	Teachers	08	Students	73
Name of the Expert with Designation	Prof. Manoj Nandani Professor, KLE'S Engineering College, Chikodi					
Contact Number & Address of the Expert	Cell No : 9986533312 Professor, KLE'S Engineering College, Chikodi					
Objectives of the Event	1. A Light Emitting device have been evolving as the dominant light source in mobile phones, displays, automobiles, and now general lighting. 2. Connecting & operating LED connected to the digital outputs of an arduino.					
Outcome of the Event	The site provides performance information on led products that has been supplied by the manufacture & verified by the lighting facts.					
Photo Gallery						

**IQAC Coordinator**  
**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

**HOD**  
head  
Department of Physics  
K.L.E's G. I. B. College, Nipani/

**Principal**  
**PRINCIPAL**  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

**K.L.E. Society's**  
**G.I.Bagewadi Arts, Science & Commerce College, Nipani.**  
**DEPARTMENT OF PHYSICS**  
**CERTIFICATE COURSE 2019-20**  
**GUEST LECTURE**  
**ON**  
**LIGHT EMITTING DIODES**  
**BRIEF REPORT**




KLE's G.I.Bagewadi College, Nipani. Department of Physics started a certificate course in "Light Emitting Diodes" for the year 2019-20 from 18/02/2020. The function begins with welcome & Introduction of Resource Person Prof. Manoj Nandani by miss. Soundarya Patil. The Inauguration of the ceremony was done by watering a plant by the dignitaries on the Dias. A Bouquet was presented to a Resource Person by our beloved Vice- principal Dr. R.G.Kharabe.

Resource Person had spoken about the Light Emitting Diodes. He begins his speech with the introduction of the semiconductors i.e. n & p-type for forward & reverse bias. He gave the history of LED, he also explained the construction and working of LED. He also mentioned about the material combination used in it. Then he elaborated about the advantages & disadvantages of LED.

Dr. R.G.Kharabe presided over the function. He remarked that LED bulbs & tubes are more efficient than ordinary Filaments bulbs & CFC bulbs. They have long time period. There for this certificate course is Organised. He told Students to take benefit of this course.

At the end the vote of thanks was conveyed by Smt. G.M. Madanalli, Co-ordinator of certificate course.

  
**Co-ordinator**  
**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
**HOD**  
**Head**  
Department of Physics  
K.L.E's G. I. B. College, Nipani.



  
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G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

**K.L.E. Society's**

**G.LBAGEWADI ART'S ,SCIENCE AND COMMERCE COLLEGE, NIPANI**

# **Department of Marathi**

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**Certificate Course –“Journalism”  
Marathi - Patrakarita**

**STAFF LIST : Dr.S.M.Rayamane  
Prof.N.R.Kurade**

# **CERTIFICATE COURSE DOCUMENTS**

- 1 SYLLABUS**
- 2 STUDENTS LIST**
- 3 TIME TABLE**
- 4 STAFF LIST**
- 5 ATTENDANCE REGISTER**
- 6 TEST NOTICE**
- 7 TEST PAPERS**
- 8 MARKS LIST**
- 9 CERTIFICATE SAMPLE COPY**
- 10 AMOUNT DEPOSITED RECEIPT**
- 11 FUNCTION REPORT/PHOTOES IF ANY**





**Department of Marathi**

Ref.no

Date : 28/12/2019

**NOTICE**

Our Department is conducting a certificate course for all the Degree students. Interested students are informed to enroll their names to Prof. N.R.Kurade or the HOD of Marathi on or before 30/12/2019.

**The Course Details Are Given Below.**

- Course: Certificate course in "Marathi Patrakarita"
- Course Duration : 3 months
- Fees Structure of the course : Rs. 50/- Only

  
HOD OF MARATHI DEPT  
Head

Department of Marathi  
K.L.E's G. I. B. College, Nipani.



  
PRINCIPAL

PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.

**LIST OF STUDENTS :**

SL.NO	NAME OF THE STUDENTS	CLASS	ROLL NO	SIGN
1	Archna R Patil	B.com II	18	
2	Akshata M. Bhivase	B.com II	06	
3	Gayatri Desai	B.com II	30	
4	Kajal goravade	B.com II	38	
5	Bhagyashree khot	B.com II	23	
6	Anagha mohite	B.com II	136	
7	Rutuja powar	B.com II	84	
8	Trupti patil	B.com II	125	
9	Revati nik	B.com II	77	
10	Swati khot	B.com II	123	
11	Harshada Ingale	B.com II	33	
12	Ashish vaswade	B.com II	20	
13	Sahil shreekhande	B.com II	86	
14	Sourabh mane	B.com II	110	
15	Sonali S hinulakar	B.com II		
16	Swaranjali .v. shinde	B.com II		
17	Supriya Aaivhale	B.com II		
18	Ritika palse	B.com II		
19	Sejal S Aoundhakar	B.com II		

  
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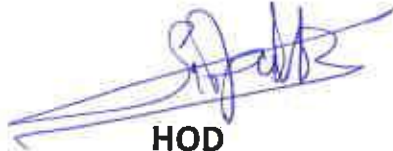
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**G.I.BAGEWADI ART'S ,SCIENCE AND COMMERCE COLLEGE, NIPANI**  
**Department of Marathi**

**Certificate Course –“Journalism”**

**Marathi Patrakarita**

**SYLLABUS - PATRAKAARITAA**

- 1 पत्रकारिता व लेखन पध्दत.
- 2 बातमी तयार करणे.
- 3 सामाजिक घटनांचे अवलोकन इत्यादी



**HOD**  
**Head**

Department of Marathi  
K.L.E's G. I. B. College, Nipani.



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**G. I. Bagewadi College, Nipani.**

K.L.E. Society's  
G. I. Bagewadi Arts, Science, Commerce College. Nipani


**Time-Table**

**DEPARTMENT OF MARATHI CLASS CERTIFICATE COURSE**

**YEAR: 2020**

**Dr .S.M.Rayamne**  
**Prof .N.R.Kurade**

Days										
Time	9:15-10:15		10:30	11:30	12:30		02:00	03:00	04:00	05:00
			11:30	12:30	01:30		03:00	04:00	05:00	06:00
Monday	B.com I-1									
Tuesday	B.com I-4									
Wednesday										
Thursday							B.com I			
Friday							B.com I-26			
Saturday							B.com I-26			

  
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**Head**  
Department of Marathi  
K.L.E's G. I. B. College, Nipani.



  
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KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani – 591237 Dist : Belgaum  
मराठी विभाग

## पत्रकारिता

नियमितपणे लेखन करणाऱ्या तसेच बातम्या देणाऱ्या लेखकांना पत्रकार म्हणतात. मराठी भाषेचे दिग्गज लेखक व पत्रकार अरुण साधू, प्र. के. अत्रे यांचे आदर्श ठेवून आपण समाजातील चालू घडामोडी तसेच भाषेचे जिवंत मुखपट जनतेसमोर समाज जीवनातील महत्त्वाचे स्थान मिळवण्यास प्रवृत्त करताना खूप आनंद होत आहे. ६ जानेवारी पत्रकार दिनाचे औचित्य साधून विद्यार्थ्यांच्या व्यक्तिमत्त्व आणि बहुश्रुततेमध्ये वाढ व्हावी, विविध विषयांवरील गुणवत्तापूर्ण वाचन स्वतःचे महत्त्व स्पष्ट शब्दात लिहिण्याची क्षमता एखाद्या घटनेची विश्लेषणात्मक क्षमता संशोधनात्मक मनाची तयारी, समाजाकडे पाहण्याची हातोटी उत्कृष्ट आक्रमण क्षमता, मातृभाषे बरोबर इतर भाषेचे ज्ञान संपादन करून चौफेर आकलन प्रवृत्ती वाढविण्यासाठी विद्यार्थ्यांना कमीत कमी वेळेत जास्तीत जास्त फायदा व्हावा या दृष्टीने या या कोर्सची निवड मराठी विभागाने केली आहे. तरी महाविद्यालयीन विद्यार्थ्यांना याचा पुरेपूर लाभ होणार आहे. हे निश्चित.

खालील मुख्य मध्ये पहाता येतील:-

- समाजिक घडामोडी तसेच प्रत्यक्ष अवलोकन करणे.
- भाषाशैलीबरोबर मुलखतीचे कुशलता व आलेख तयार करणे.
- अर्थपूर्ण लेखन पध्दत.

  
HOD Head  
Department of Marathi  
K.L.E.'s G. I. B. College, Nipani.



  
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IQAC- Initiative

Date: 27/12/2018

**Department of chemistry**  
**Certificate course - Water Analysis**

**Notice**

The department of Chemistry organising Certificate course for B.Sc. VI<sup>th</sup> Semester PCM students on "Water analysis" which is jointly organised with water Analysis Research Centre at Rait Mitra Abhivruddhi Sangh (R) at Sankeshwar.

All the B.Sc. VI<sup>th</sup> Semester PCM students are here by informed to enroll their names to Prof. Smt. R. R. Mane for certificate course in Chemistry, on or before 30/12/2018.

  
Convener

  
HOD  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

  
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Department of Chemistry

**CERTIFICATE COURSE IN WATER ANALYSIS - 2018-19**

**ENROLLMENT FORM**

Mr./Miss.: Abhinandan Modiwale of Class : B.Sc VI Date: 01/01/19  
Roll No.: 01  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Prave  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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Department of Chemistry

**CERTIFICATE COURSE IN WATER ANALYSIS - 2018-19**

**ENROLLMENT FORM**

Mr./Miss.: Abhishak Patil of Class : B.Sc VI Date: 01/01/19  
Roll No.: 02  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Prave  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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Department of Chemistry

**CERTIFICATE COURSE IN WATER ANALYSIS - 2018-19**

**ENROLLMENT FORM**

Mr./Miss.: Ashra Muiawar of Class : B.Sc VI Date: 01/01/19  
Roll No.: 03  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Prave  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.





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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2018-19**  
ENROLLMENT FORM

Mr./Miss.: Aishwaraya Dhananagutte of Class : BSc V Date: 02/11/19  
Roll No.: 4  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Prave  
Staff Incharge

Head  
HOD  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2018-19**  
ENROLLMENT FORM

Mr./Miss.: Aishwaraya Khol of Class : BSc VI Date: 2/11/19  
Roll No.: 5  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Prave  
Staff Incharge

Head  
HOD  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



K.L.E. Society's  
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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2018-19**  
ENROLLMENT FORM

Mr./Miss.: Aishwaraya Mula Mallagol of Class : BSc V Date: 2/11/19  
Roll No.: 6  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Prave  
Staff Incharge

Head  
HOD  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



**K.L.E. Society's**  
**G.I. Bagewadi Arts, Science & Commerce College Nipani**  
**'IQAC INITIATIVE'**  
**CERTIFICATE COURSE - WATER ANALYSIS 2018-19**

Roll. NO.	REG.NO	NAME OF THE CANDIDATES
1	S1617601	ABHINANDAN MADIWAL
2	S1617604	ABHISHEK PATIL
3	S1617606	AFRIN MUJAWAR
4	S1617607	AISHWARYA DHARANAGUTTE
5	S1617608	AISHWARYA KHOT
6	S1617609	AISHWARYA MALUMALLAGOL
7	S1617610	AISHWARYA ZELE
8	S1617611	AKSHATA SANJAY BADADAVAR
9	S1617612	AKSHAY PATIL
10	S1617615	AMRUTA MIRAJE
11	S1617616	ANAGOUDA RAVASAB PATIL
12	S1617617	ANITA HAMIDWADE
13	S1617618	ANUJA PATIL
14	S1617619	ARATI CHAVAN
15	S1617622	ARATI S PATIL
16	S1617623	ASHA GIREPPA MALAGI
17	S1617625	BAHUBALI PATIL
18	S1617626	BANASHREE NAGARAMUNNOLI
19	S1617627	BHAGYASHRI KHOT
20	S1617628	BHAKTI PATIL
21	S1617629	BHAKTI PATIL
22	S1617632	DEEPAK N WADIKAR
23	S1617638	DIPALI S INGROLE
24	S1617642	JYOTI SUTAR
25	S1617644	LATA BHARMAL
26	S1617645	LAVANYA TARAL
27	S1617649	MANJUNATH SHANKAR
28	S1617651	MAYURI DAREKAR
29	S1617652	MRUNALI CHENDAKE
30	S1617653	NAMRATA HINDOLE
31	S1617654	NAMRATA PATIL
32	S1617656	NIKITA JADHAV
33	S1617657	NIKITA JABADE
34	S1617658	NIKITA MADIWAL
35	S1617659	NIKITA PATIL
36	S1617661	NIRMALA DHANGI
37	S1617662	NISAR NAIKWADE
38	S1617663	NITIN PATIL
39	S1617664	NIVEDEETA ANANDA DALAVI
40	S1617667	OMKAR BOLAJ
41	S1617669	PALLAVI SHANKAR PATIL
42	S1617670	PALLAVI PUJARI
43	S1617672	PANCHAKSHARI SWAMI
44	S1617673	PANKAJ HAWALDAR
45	S1617676	POOJA MARABILLE





46	S1617677	POONAM DILIP VADRALE
47	S1617678	PRACHI MAYANNA
48	S1617679	PRAJAKTA BHORE
49	S1617680	PRAKASH CHOUGALE
50	S1617681	PRAMOD P KULKARNI
51	S1617683	PRASAD PATIL
52	S1617684	PRATEEBHA LATTHE
53	S1617685	PRATIBHA MAGADUM
54	S1617686	PRATIKSHA CHIPRE
55	S1617687	PRAVEENI BABBANAVAR
56	S1617688	PREETI DUNDAPPA KALLIMANI
57	S1617690	PUSHPA KHOT
58	S1617694	RAJU MAHADEV SHINDE
59	S1617695	RANI NAVALE
60	S1617698	ROHIT SUBHASH PATIL
61	S1617699	ROHIT YALLURE
62	S1617700	SALONI PATIL
63	S1617701	SAMINA MULLA
64	S1617702	SANGEETA MORE
65	S1617704	SANKALP KILLEDAR
66	S1617705	SANKET MUNYAL
67	S1617713	SHRUTI TASILDAR
68	S1617714	SHWETA JAYAKAR
69	S1617715	SHWETA RAMACHANDRA PATIL
70	S1617717	SHWETA RAVANNAVAR
71	S1617720	SNEHA PATIL
72	S1617721	SNEHAL JADHAV
73	S1617723	SOURABH GURAV
74	S1617724	SOURABH DEVAGOUDA PATIL
75	S1617725	SOURABH SANKAJE
76	S1617727	SUMMAYYA GAJBAR
77	S1617730	SUPRIYA RAJENDRA MUSALE
78	S1617732	SUSHANT CHOUGALE
79	S1617733	SUSHMITA PATTANAKUDE
80	S1617734	SWATI KUMBHAR
81	S1617735	TANUJA VAGHAMODE
82	S1617737	TEJASWINI SANJIV DESAI
83	S1617738	VAIJAYANTI SUBHASH JANAKARE
84	S1617739	VAISHALI BALU ADAKE
85	S1617743	VANITA MUNNOLE
86	S1617744	VARSHA B PATIL
87	S1617745	VARSHA RUDRAGOUDA PATIL
88	S1617746	VINOD HEGGANA
89	S1617747	VISHAL SANJEEV KABADIGE
90	S1617748	VISHAL KAMATE

  
CONVENER



  
**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

  
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### IQAC INITIATIVE

Department of Chemistry

Certificate Course in Water Analysis

Syllabus for Water Analysis

Theory

(16 Hours)

#### Chapter I

##### Introduction

(3 Hours)

- 1.1 Environment and Environmental Pollution
- 1.2 Elements of environment
- 1.3 Types of pollution & pollutant
- 1.4 Water as natural resource

##### Ref

- 1) Global warming and environmental laws by H.V. Jadhav, Dr. S. H. Purohit.

#### Chapter II Water Pollution

(3 Hours)

- 2.1 Introduction water pollution & its definition
- 2.2 Physical and chemical properties of water
- 2.3 Classification of water pollutants
- 2.4 Sources of water pollution

##### Ref.

Water pollution by Dr. Anuradha Salpekar.

#### Chapter III Waste Water Treatment

(4 Hours)

- 3.1 Characteristics (parameters) of waste water
- 3.2 Treatment of water pollution
- 3.3 Preprimary treatment
- 3.4 Primary treatment
- 3.5 Secondary treatment
- 3.6 Tertiary treatment

##### Ref

- 1) Environmental pollution Analysis by S.M. Khopkar.

#### Chapter IV Instrumentation for Water Analysis

(6 Hours)

- 4.1 TDS rating for various types of water
- 4.2 Determination of pH and electrical conductivity of water sample
- 4.3 Estimation of Na and K present in water sample by using flame photometry
- 4.4 Estimation of chloride in water sample
- 4.5 Estimation of carbonate and bicarbonate present in water sample
- 4.6 Estimation of calcium and magnesium in water sample

##### Ref

- 1) Environmental pollution Analysis by S.M. Khopkar.



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**Practicals**

**(16 Hours)**

Sl. No.	Name of the experiment
1	To determine Total Alkalinity of Water
2	To determine the total hardness of the water sample
3	To determine pH and conductance of waste water
4	To determine Dissolve oxygen of waste water
5	To determine Chemical oxygen demand of waste water
6	To determine Acidity of Water
7	To determine TS, TSS, TDS of water
8	To determine salinity of the given water sample
9	To determination of pH, moisture and humidity of soil
10	To determine carbonate of soil
11	To determine gypsum of soil



  
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---

**DEPARTMENT OF CHEMISTRY**  
**CERTIFICATE COURSE IN WATER ANALYSIS**  
**2018 – 2019**

**STAFF LIST**

- **Dr. S. B. Solbannavar**
- **Prof. G. B. Kumbar**
- **Smt. R. R. Mane**
- **Mr. S. M. Narawade**



  
**Co-ordinator IQAG**  
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BScCC<sub>1</sub>

**DEPARTMENT OF CHEMISTRY**  
**CERTIFICATE COURSE (Water Analysis)**  
**TIME TABLE 2018-2019**

DAY	PRACTICAL ( 9am – 12pm)
06/01/2019	ASJ
13/01/2019	PTN
20/01/2019	DSK
27/01/2019	GBK
03/02/2019	PTN
10/02/2019	RRM
17/02/2019	SMN
24/02/2019	DSK
03/03/2019	SMN
10/03/2019	RRM
17/03/2019	Practical test paper

  
Convenor

  
Head of Department  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
G.I.Bagewadi Arts, Science  
& Commerce College, Nipani



**DEPARTMENT OF CHEMISTRY**  
**Certificate Course in Water Analysis -18-19**

**Syllabus Scheme**

Sr. No.	Paper No.	Total workload	Max. Marks	Internal marks	Total marks
1.	Paper – Theory	16 Hours	40	10	50
2.	Paper - Practical	16 Hours	40	10	50
<b>Total Marks</b>					<b>100</b>

**Note :**

1. **Internal Assessment for theory shall be based on performance in unit test & assignment.**
2. **Internal Assessment for practical shall be based on followings.**
  - i) **Field Visit : 10 Marks**
  - ii) **Record Book : 05 Marks**
  - iii) **Viva Voce : 05 Marks**



  
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BScCC<sub>1</sub>



Date 01/03/2019

**“ IQAC Initiative ”**  
**Certificate Course in Chemistry – Water Analysis**  
**(Academic year 2018-19)**

The certificate course is part of practical skill based initiative programme to Chemistry students to enrich their knowledge about Water Analysis and is compulsory for all B.Sc. VI<sup>th</sup> semester PCM students.

For the academic year 2018-19 the department of Chemistry organize the certificate course in 'WATER ANALYSIS' for B.Sc. VI<sup>th</sup> semester PCM students. The Water Analysis is carried out at "Water Analysis research center" at Rait Mitra Abhvivrudhi Sangh, (R), at Sankeshwar.

**Schedule for Water Analysis**

All B.Sc. VI<sup>th</sup> Semester PCM students are hereby informed to attend the Practical & Theory Classes on Water analysis at Rait Mitra Abhvivrudhi Sangh, (R), research center Sankeshwar from 01/03/2019 to 07/03/2019 with the Staff in charge as per the following Time table.

Day	Date	Students Roll. No	Staff Incharge	Sign
Friday	01/03/2019	1 to 23	Shri.S.M.Narawade Miss. D.S Kanagali.	
Saturday	02/03/2019	24 to 45	Dr. A. S. Jaganure Miss. D.S Kanagali.	
Wednesday	06/03/2019	46 to 68	Smt. R. R. Mane Shri. G. B. Kumbar	
Thursday	07/03/2019	69 to 90 & 133,134	Smt. R. R. Mane Shri. G. B. Kumbar	

The students are informed to be present at Rait Mitra Abhvivrudhi Sangh, (R), at Sankeshwar sharp at 10 am. without fail.

Convener

HOD  
Chemistry  
Head

Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

Principal  
PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.





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IQAC- Initiative

**Department of chemistry**  
**Certificate course - Water Analysis**  
**Marks Statement - 2018-19**

Roll. NO.	NAME OF THE CANDIDATES	Marks Obtained [20]	Roll. NO.	NAME OF THE CANDIDATES	Marks Obtained [20]	Roll. NO.	NAME OF THE CANDIDATES	Marks Obtained [20]
1	ABHINANDAN MADIWAL	18	18	BANASHREE NAGARAMUNNOLI	13	35	NIKITA PATIL	14
2	ABHISHEK PATIL	20	19	BHAGYASHRI KHOT	16	36	NIRMALA DHANGI	18
3	AFRIN MUJAWAR	15	20	BHAKTI PATIL	14	37	NISAR NAIKWADE	19
4	AISHWARYA DHARANAGUTTE	14	21	BHAKTI PATIL	10	38	NITIN PATIL	17
5	AISHWARYA KHOT	16	22	DEEPAK N WADIKAR	15	39	NIVEDEETA ANANDA DALAVI	16
6	AISHWARYA MALUMALLAGOL	17	23	DIPALI S INGROLE	14	40	OMKAR BOLAJ	10
7	AISHWARYA ZELE	19	24	JYOTI SUTAR	17	41	PALLAVI SHANKAR PATIL	09
8	AKSHATA SANJAY BADADAVAR	13	25	LATA BHARMAL	18	42	PALLAVI PUJARI	16
9	AKSHAY PATIL	12	26	LAVANYA TARAL	19	43	PANCHAKSHARI SWAMI	13
10	AMRUTA MIRAJE	15	27	MANJUNATH SHANKAR	12	44	PANKAJ HAWALDAR	13
11	ANAGOUDA RAVASAB PATIL	16	28	MAYURI DAREKAR	13	45	POOJA MARABILLE	20
12	ANITA HAMIDWADE	16	29	MRUNALI CHENDAKE	16	46	POONAM DILIP VADRALE	20
13	ANUJA PATIL	18	30	NAMRATA HINDOLE	18	47	PRACHI MAYANNA	20
14	ARATI CHAVAN	17	31	NAMRATA PATIL	15	48	PRAJAKTA BHOORE	16
15	ARATI S PATIL	16	32	NIKITA JADHAV	17	49	PRAKASH CHOUGALE	15
16	ASHA GIREPPA MALAGI	15	33	NIKITA JABADE	15	50	PRAMOD P KULKARNI	14
17	BAHUBALI PATIL	13	34	NIKITA MADIWAL	19	51	PRASAD PATIL	19





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**IQAC- Initiative**

Roll. NO.	NAME OF THE CANDIDATES	Marks Obtained [20]	Roll. NO.	NAME OF THE CANDIDATES	Marks Obtained [20]	Roll. NO.	NAME OF THE CANDIDATES	Marks Obtained [20]
52	PRATEEBHA LATTHE	18	69	SHWETA RAMACHANDRA PATIL	12	86	VARSHA B PATIL	16
53	PRATIBHA MAGADUM	17	70	SHWETA RAVANNAVAR	13	87	VARSHA RUDRAGOUDA PATIL	16
54	PRATIKSHA CHIPRE	19	71	SNEHA PATIL	14	88	VINOD HEGGANNA	16
55	PRAVEENI BABBANAVAR	13	72	SNEHAL JADHAV	15	89	VISHAL SANJEEV KABADIGE	12
56	PREETI DUNDAPPA KALLIMANI	12	73	SOURABH GURAV	16	90	VISHAL KAMATE	20
57	PUSHPA KHOT	12	74	SOURABH DEVAGOUDA PATIL	18			
58	RAJU MAHADEV SHINDE	15	75	SOURABH SANKAJE	17			
59	RANI NAVALE	20	76	SUMMAYYA GAJBAR	19			
60	ROHIT SUBHASH PATIL	15	77	SUPRIYA RAJENDRA MUSALE	20			
61	ROHIT YALLURE	14	78	SUSHANT CHOUGALE	20			
62	SALONI PATIL	12	79	SUSHMITA PATTANAKUDE	20			
63	SAMINA MULLA	15	80	SWATI KUMBHAR	15			
64	SANGEETA MORE	14	81	TANUJA VAGHAMODE	16			
65	SANKALP KILLEDAR	16	82	TEJASWINI SANJIV DESAI	17			
66	SANKET MUNYAL	17	83	VAIJAYANTI SUBHASH JANAKARE	18			
67	SHRUTI TASILDAR	18	84	VAISHALI BALU ADAKE	20			
68	SHWETA JAYAKAR	19	85	VANITA MUNNOLE	19			

  
Convener



  
HOD  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.

  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
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Certificate Course in Chemistry

Project Report on

WATER ANALYSIS

Submitted by:

Mr / Miss. *Prajakta. L. Bhoire*.....

of B.Sc. VI Sem. Student

To,

THE DEPARTMENT OF CHEMISTRY

*Chocpp*  
Signature  
Of Student

*Rave*  
Signature of  
Staff Incharge

*[Signature]*  
HOD  
Chemistry

*[Signature]*  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

*[Signature]*  
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Department of Chemistry


2018-19

## CERTIFICATE

This is to certify by Mr/ Miss. Prajakta. L. Bhoore...  
B.Sc. VI Sem Student has satisfactorily completed the project in Chemistry  
prescribed by the Rani Channamma University, Belagavi for B.Sc. VI Semester  
of this college in the year 2018-19.

  
Staff Incharge

  
Head of Department

Examiner  
  
  
17/4/19





## DECLARATION

Mr./Miss. Prajakta. L. Bhoose. of B.Sc. VI Semester Studying in K.L.E's " G.I. Bagewadi College, Nipani. Hereby declare that this project is genuine and original work of study prepared by me. It is based on the data and information collected by me. To the best of my knowledge and belief, the matter presented in this report has not been copied from any report submitted to Rani Chanamma University, Belagavi, to Complete B.Sc.

I Hope this report will serve the purpose.

Place: Nipani

Prajakta. L. Bhoose.  
Signature

Date: 05-04-2019

( \_\_\_\_\_ )  
Name: Prajakta. L. Bhoose.

# INDEX

SL NO.	Content
1	Introduction
2	Composition of Water
3	Natural And Industrial Sources
4	Effects Of Hard Water
5	Types of Water
6	Water Analysis (Standards Used in Water Analysis)
7	Water and Soil Analysis Kit
8	Standard Parameter Values
9	Results & Discussion
10	Summary & conclusion
11	Reference
12	Acknowledgement

## Introduction:

Water is elixir of life. Every living organism needs water. Without water organisms cannot survive. Chemically water is made up of two moles of Hydrogen and One Mole of Oxygen. And purified water is very important for healthy life. So we need pure water. Pure water has not colour and no test.

- a) Above  $100^{\circ}\text{C}$  it occurs in the form of water vapour or steam.
- b) Below  $0^{\circ}\text{C}$  it forms ice
- c) Between  $0-100^{\circ}\text{C}$  it occurs in the form of liquid.

According to Kabisch and Hanjmerling (1982), our planet Earth contains 537.6 million sq. kms of water. Of which, only about 5.376 million sq. kms (approx) is available for human use.

Of the natural elements, water is considered to be of prime importance to the existence of man, plants and animals. It also plays an essential role in agriculture, industries, pisciculture, forestry and navigation.

Eutrophication of water, which in simplest terms, is pollution of water or increase in nutrients, results in the degradation of its quality accompanied luxuriant growth of algae or macrophytes. This is recognized as a major problem all around the globe. Weber (1907- in Zutshi, 1981) first introduced the concept of eutrophication to describe the nutrient contents determining the flora of German peat bogs. Nauman (1907) in Zutshi, 1981) used the term oligotrophic, mesotrophic and eutrophic, according to the concentration of phosphorus, nitrogen and calcium along with the associated density of phytoplankton population.

The need of water is increasing day by day invariably due to increasing population urbanization etc. Simultaneously the quality of standing water is degrading which affects the flora particularly the plankton. A glance at an earlier study reveals that plankton grow in water of particular trophic levels. Hence some

of these planktons may act as indicators of pollution. Some plankton is capable of tolerating pollution load.

The problem of pollution of water resources due to the discharge of wastes of domestic and industrial origin is a great threat on the international scale. Added to this is the surface run off from the heavily fertilized agricultural fields, which after reaching the water body cause pollution. Thus the reliable and economical methods to assess water pollution are needed. Any impairment caused by pollution has its effect on the aquatic biota. Therefore, a continuous monitoring of the aquatic biota reflects the conditions existing in the aquatic environment and the data can be utilized for the biological monitoring of water pollution.

The problem of water pollution in India is very critical as India is a developing country among the developing and developed countries. Though a lot of work has been done on the Indian waters, the extensive studies are few. The pioneer workers in the study of the Indian waters are Ganapati (1940), Singh (1960), Sreenivasan (1972) and Zafar (1964, 1967).

In India the total water available for use is about 1900 cubic meters. Of this, about 86% is in the form of rivers, streams, lakes and ponds (Kiran, 1992). Karnataka is one of the agriculturally and industrially leading states in India. Industrial effluents, treated or untreated, are dumped into the natural water bodies causing irreparable damage to the aquatic biota. Karnataka state is known for its large number of water bodies like small

## *Composition of water*

Everyone is very familiar with water. We observe it as rain and snow and can see it in the oceans, lakes, rivers, and streams. Although the water in our bodies is not as apparent, recognize that most of our weight is made up of water. In fact, the normal adult is made up of approximately 60% water. Thus, water is essential for life.

Water is made up of hydrogen ions ( $H^+$ ) linked to hydroxyl ions ( $OH$ ) to form  $H_2O$ . The molecular formula for water is  $H_2O$ . From this formula and the atomic weights for hydrogen and oxygen you can calculate that the molecular weight of water is approximately 18 grams.

*Note: The atomic weight of hydrogen (H) is 1 gram and the atomic weight of oxygen (O) is 16 grams.*

18 grams of water can also be referred to as being 1 mole of water. A mole of a substance (e.g. water), contains a particular number of molecules. That number is  $6.02 \times 10^{23}$  and is often referred to as Avogadro's number: named after Amedeo Avogadro, an Italian physicist.

Recognize that  $6.02 \times 10^{23}$  is in scientific notation and represents a huge number: 602 billion trillion. Written in standard form, this number is: 602,000,000,000,000,000,000,000. Thus, a mole of water which weighs 18 grams contains a huge number of water molecules.

18 grams or 1 mole of water occupies a volume of 18 milliliters. Therefore, 1000 milliliters (1 liter) of water contains 55.6 moles of water (1000 milliliters / 18 milliliters per mole)

Water molecules exist in the form of  $H_2O$ ; hydrogen ions ( $H^+$ ) linked to hydroxyl ions ( $OH^-$ ). A few of these water molecules split apart to create free  $H^+$  and  $OH^-$  ions. Pure, deionized water contains the same number of  $H^+$  ions and  $OH^-$  ions. One liter of pure, deionized water contains  $1 \times 10^{-7}$  moles of  $H^+$  and  $1 \times 10^{-7}$  moles of  $OH^-$  ions. This is



still a very large number of free hydrogen ions, namely:  $6.02 \times 10^{16}$  or 60,200,000,000,000,000.

---

### Natural sources of water pollution

Natural processes and animals cause the following:

- **Organic Matter/Low D.O:** There are a lot of cypress swamps, float marshes, salt marsh wetlands, and animals, in the Barataria and Terrebonne Watersheds. The trees and marsh plants naturally produce a lot of organic matter from their leaves, stems, and roots. When these plant parts fall off or get washed into a waterbody by storm water they can lower dissolved oxygen.
- **Nutrients:** These are substances required by plants and animals to grow. The nutrients that have a large impact on the natural balance of waterways are nitrogen and phosphorus. These nutrients cause plankton to grow excessively. Plankton also die excessively and this puts a large amount of organic matter into the water which results in lower dissolved oxygen. Under natural situations nutrients are recycled from plant to animal, plankton to fish. Animals that live in water in large numbers, like ducks and geese, put manure directly into the water causing pollution.
- **Sediment:** In a natural condition, sediment in the water is usually related to large storm events, like hurricanes. Sometimes it is hard to tell whether the sediment is natural or from humans unless you look at aerial photographs and land use patterns.
- **Disease-Causing Organisms:** Animals that live on water in large numbers, such as ducks and geese, and put manure directly into the water cause pollution that can contaminate the water with disease-causing organisms.

## Industrial waste

*Industries cause huge water pollution with their activities. These come mainly from:*  
*Sulphur - This is a non-metallic substance that is harmful to marine life.*



*Asbestos - This pollutant has cancer-causing properties. When inhaled, it can cause illnesses such as asbestosis and some types of cancer.*

*Lead and Mercury - These are metallic elements and can cause environmental and health problems for humans and animals. It is also poisonous. It is usually very hard to clean it up from the environment once it gets into it because it is non-biodegradable.*

*Nitrates & Phosphates - These are found in fertilizers, and are often washed from the soils to nearby water bodies. They can cause environment, which can be very problematic to marine environments.*

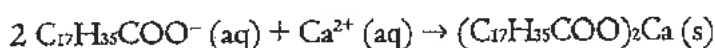
*Oils - Oils form a thick layer on the water surface because they do not dissolve in water. This can stop marine plants receiving enough light for photosynthesis. It is also harmful to fish and marine birds. A classic example is the BP oil spill in 2012 which killed thousands of animal species. Read more on this [HERE](#)*

### Oil Pollution by Oil Industries

Routine shipping, run-offs and dumping of oils on the ocean surfaces happen every day. Oil spills make up about 12% of the oil that enters the ocean. Oil spills cause major problems, and can be extremely harmful to local marine wildlife such as fish, birds and sea otters and other aquatic life. Because oil does not dissolve, it stays on the water surface and suffocates fish. Oil also gets caught in the feathers of seabirds, making it difficult for them to fly. Some animals die as a result.

## Effects of Hard Water:

With hard water, soap solutions form a white precipitate (soap scum) instead of producing lather, because the  $2+$  ions destroy the surfactant properties of the soap by forming a solid precipitate (the soap scum). A major component of such scum is calcium stearate, which arises from sodium stearate, the main component of soap:



Hardness can thus be defined as the soap-consuming capacity of a water sample, or the capacity of precipitation of soap as a characteristic property of water that prevents the lathering of soap. Synthetic detergents do not form such scums.



A portion of the ancient Roman Eifel aqueduct in Germany. In service for about 180 years, the aqueduct had deposits of scale up to 20 cm thick along the walls.

Hard water also forms deposits that clog plumbing. These deposits, called "scale", are composed mainly of calcium carbonate ( $\text{CaCO}_3$ ), magnesium hydroxide ( $\text{Mg}(\text{OH})_2$ ), and calcium sulfate ( $\text{CaSO}_4$ ). Calcium and magnesium carbonates tend to be deposited as off-white solids on the inside surfaces of pipes and heat exchangers. This precipitation (formation of an insoluble solid) is principally caused by thermal decomposition of bicarbonate ions but also happens in cases where the carbonate ion is at saturation concentration. The resulting build-up of scale restricts the flow of water in pipes. In boilers, the deposits impair the flow of heat into water, reducing the heating efficiency and allowing the metal boiler components to overheat. In a pressurized system, this overheating can lead to failure of the boiler. The damage caused by calcium carbonate deposits varies on the crystalline form, for example, calcite or aragonite.

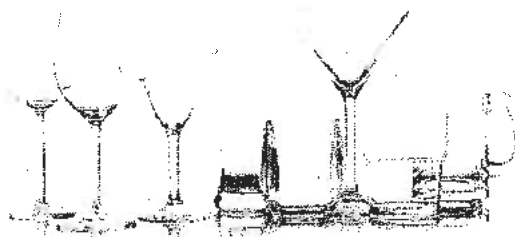
The presence of ions in an electrolyte, in this case, hard water, can also lead to galvanic corrosion, in which one metal will preferentially corrode when in contact with another type of metal, when both are in contact with an electrolyte. The softening of hard water by ion exchange does not increase its corrosivity *per se*. Similarly, where lead plumbing is in use, softened water does not substantially increase plumbo-solvency.

In swimming pools, hard water is manifested by a turbid, or cloudy (milky), appearance to the water. Calcium and magnesium hydroxides are both soluble in water. The solubility of the hydroxides of the alkaline-earth metals to which calcium and magnesium belong (group 2 of the periodic table) increases moving down the column. Aqueous solutions of these metal hydroxides absorb carbon dioxide from the air, forming the insoluble carbonates, giving rise to the turbidity. This often results from the pH being excessively high (pH > 7.6). Hence, a common solution to the problem is, while maintaining the chlorine concentration at the proper level, to lower the pH by the addition of hydrochloric acid, the optimum value being in the range of 7.2 to 7.6.

### Softening

It is often desirable to soften hard water. Most detergents contain ingredients that counteract the effects of hard water on the surfactants. For this reason, water softening is often unnecessary. Where softening is practised, it is often recommended to soften only the water sent to domestic hot water systems so as to prevent or delay inefficiencies and damage due to scale formation in water heaters. A common method for water softening involves the use of ion exchange resins, which replace ions like  $\text{Ca}^{2+}$  by twice the number of monocations such as sodium or potassium ions.

## HARD VS SOFT



Washing soda (sodium carbonate -  $\text{Na}_2\text{CO}_3$ ) is easily obtained and has long been used as a water softener for domestic laundry, in conjunction with the usual soap or detergent.

Hard water... is water that contains an appreciable quantity of dissolved minerals (like calcium and magnesium).

Soft water... is treated water in which the only ion is sodium.

As rainwater falls, it is naturally soft. However, as water makes its way through the ground and into our waterways, it picks up minerals like chalk, lime and mostly calcium and magnesium. Since hard water contains essential minerals, it is sometimes the preferred drinking water. Not only because of the health benefits, but also the flavor. On the other hand, soft water tastes salty and is sometimes not suitable for drinking. So why, then, do we soften our water?

When it boils down, the major difference between hard and soft water can best be seen while doing household chores. Hard water is to blame for dingy looking clothes, dishes with spots and residue, and bathtubs with lots of film and soap scum. Even hair washed in hard water may feel sticky and look dull. Hard water can take a toll on household appliances as well and use up more energy. The elements of hard water are to blame for all of these negative factors, as soap is less effective due to its reaction to the magnesium and calcium. The lather is not as rich and bubbly.

Chore-doers will love using soft water, as tasks can actually be performed more efficiently with it. Soap will lather better and items will be left cleaner. Glasses will sparkle and hair will look healthy. The shower curtain will be scum-free. Clothes and skin are left softer. In addition to time, this can also save money, as less soap and detergents will be used. Since appliances have to work less hard, soft water can also prolong the life of washing machines, dishwashers and water heaters. Energy bills are noticeably lower when in households with water softeners. In a time of rising energy costs, this is something to think about.

## WATER ANALYSIS

### Standards used in water analysis

#### conductivity

Electrical conductivity in water is a measure of the ion-facilitated electron flow through it. Water molecules dissociate into ions as a function of pH and temperature and result in a very predictable conductivity. Some gases, most notably carbon dioxide, readily dissolve in water and interact to form ions, which predictably affect conductivity as well as pH. For the purpose of this discussion, these ions and their resulting conductivity can be considered intrinsic to the water.

Water conductivity is also affected by the presence of extraneous ions. The extraneous ions used in modeling the conductivity specifications described below are the chloride and sodium ions. The conductivity of the ubiquitous chloride ion (at the theoretical endpoint concentration of 0.47 ppm when it was a required attribute test in USP XXII and earlier revisions) and the ammonium ion (at the limit of 0.3 ppm) represent a major portion of the allowed water impurity level. A balancing quantity of cations, such as sodium ions, is included in this allowed impurity level to maintain electroneutrality. Extraneous ions such as these may have significant impact on the water's chemical purity and suitability for use in pharmaceutical applications. The procedure described in the section Bulk Water is designed for measuring the conductivity of waters such as Purified Water, Water for Injection, Water for Hemodialysis, and the condensate of Pure Steam produced in bulk. For water packaged in bulk but manufactured elsewhere or for Sterile Purified Water, Sterile Water for Injection, Sterile Water for Inhalation, and Sterile Water for Irrigation, some additional conductivity tests may be required. Such tests are described in the section Packaged Water



# WATER AND SOIL ANALYSIS KIT



## Procedure

### Total dissolved solids (TDS)

Total dissolved solids (TDS) is a measure of the combined content of all inorganic and organic substances contained in a liquid in molecular, ionized or micro-granular (colloidal sol) suspended form. Generally the operational definition is that the solids must be small enough to survive filtration through a filter with two-micrometer (nominal size, or smaller) pores. Total dissolved solids are normally discussed only for freshwater systems, as salinity includes some of the ions constituting the definition of TDS. The principal application of TDS is in the study of water quality for streams, rivers and lakes, although TDS is not generally considered a primary pollutant (e.g. it is not deemed to be associated with health effects) it is used as an indication of aesthetic characteristics of drinking water and as an aggregate indicator of the presence of a broad array of chemical contaminants.

The two principal methods of measuring total dissolved solids are gravimetric analysis and conductivity. Gravimetric methods are the most accurate and involve evaporating the liquid solvent and measuring the mass of residues left. This method is generally the best, although it is time-consuming. If inorganic salts comprise the great majority of TDS, gravimetric methods are appropriate.

Electrical conductivity of water is directly related to the concentration of dissolved ionized solids in the water. Ions from the dissolved solids in water create the ability for that water to conduct an electric current, which can be measured using a conventional conductivity meter or TDS meter. When correlated with laboratory TDS measurements, conductivity provides an approximate value for the TDS concentration, usually to within ten-percent accuracy.

The relationship of TDS and specific conductance of groundwater can be approximated by the following equation:

$$TDS = k_e EC$$

where TDS is expressed in mg/L and EC is the electrical conductivity in microsiemens per centimeter at 25 °C. The correlation factor  $k_e$  varies between 0.55 and 0.8.

## DETERMINATION OF pH OF A SOIL SOLUTION & WATER

Before taking the pH of soil solution or water put on the power of pH meter at least 15 to 20min earlier.

### PREPARATION OF SOIL SOLUTION

20gm of powdered dry-soil is weighed accurately & placed in 50ml distilled water stirred & kept for 3 to 4 hours till soil settles completely.

#### Procedure

4, 7 & 9.2 pH 3 to 4 standard buffer solutions of 4, 7, 9.2 pH are prepared & their readings are taken by dipping the pH cell . then washed the cell & dipped in soil solution and once again reading recorded .

For water- 50ml of water is taken in a beaker & the cell is dipped in it & the reading recorded.

## DETERMINATION OF EC OF SOIL AND WATER

Before taking the EC reading of soil a water put on the power of conductivity meter.

Preparation of 0.1N KCl- Analytical grade KCl is used for the preparation of standard solution. 0.746g og KCl is weighed accurately & dissolved in 100ml distilled water to get 0.1N solution.

PROCEDURE- First take 50ml of distilled water in a beaker dip the cell in it & adjust the cell constant to 0.900

Then 50ml of 0.1N KCl is taken in a clean dry beaker & dipped the EC cell in it & the reading is recorded ,it should be around 1.413ds/m

For soil dip the cell in the supernant liquid of soil solution & record the reading . in case water 50ml of water is taken in a clean beaker & cell is dipped in it & the reading is recorded.

## Estimation of Calcium in the water

### Solution required –

- 1) Muroxide indicator
- 2) EDTA (0.01N) – 2gm in 1000ml
- 3) Sodium hydroxide (NaOH 10%) – 10gm in 100ml

### Procedure -

10ml of water sample solution is taken in a conical flask, Add 10ml of sodium hydroxide solution. Add pinch of muroxide indicator, then titrate against 0.01 EDTA till colour changes from pink to violet. [Note- since the colour change not spontaneous keep blank a std sample after adding indicator for noting the end point]

### Calculation –

$$\text{Calcium (meq/liter)} = \frac{\text{TV}_2 * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

$$\text{Magnesium (meq/liter)} = \frac{(\text{TV}_1 - \text{TV}_2) * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

where,

$\text{TV}_1$  – Titrating value for calcium and magnesium

$\text{TV}_2$  – Titrating value for calcium

## Estimation of Calcium and magnesium in the water

### Solution required –

- 1) Buffer solution – 67gm Ammonium chloride, and add 570ml ammonia and make up to 1 ltr
- 2) EDTA (0.01N) – 2gm in 1000ml
- 3) EBT indicator – Dissolve 0.5g of EBT in 100ml of 95% methanol

### Procedure -

10ml of water sample solution is taken in a conical flask, add 10ml of buffer solution to attain pH of 10. Then add 10drops EBT indicator and titrate against 0.01N EDTA Till colour changes from pink to blue.

### Calculation –

$$\text{Calcium (meq/liter)} = \frac{\text{TV}_2 * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

$$\text{Magnesium (meq/liter)} = \frac{(\text{TV}_1 - \text{TV}_2) * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

where,

TV<sub>1</sub> – Titer value for calcium and magnesium

TV<sub>2</sub> – Titer value for calcium

## Estimation of Carbonate and Bicarbonate in the water

### Solution required -

- 1) 0.1N H<sub>2</sub>SO<sub>4</sub> - 3ml (conc) H<sub>2</sub>SO<sub>4</sub> dissolved in 1 liter D.W.
- 2) Phenolphthalein, Methyl orange indicator

### Procedure -

10ml of sample water is mixed with 25ml distilled water placed in a conical flask add 1 - 3 drops of phenolphthalein indicator. If red colour appears titrate against standard 0.1N H<sub>2</sub>SO<sub>4</sub> till red colour disappears (TV<sub>1</sub>) Then add 2-3 drops of methyl orange indicator to the colourless solution or add to original solution .If red colour not noticed, Again titrate with 0.1 N H<sub>2</sub>SO<sub>4</sub> till yellow colour changes to rose red (TV<sub>2</sub>)

### Calculation -

$$\text{Carbonate (meq/liter)} = \frac{2 * TV_1 * N \text{ of } H_2SO_4 * 1000}{\text{Ml of water sample}}$$

$$\text{Bicarbonate (meq/liter)} = \frac{[ TV_2 - (2 * TV_1) ] * N \text{ of } H_2SO_4 * 1000}{\text{Ml of water sample}}$$



## Estimation of Chloride in the water

### Solution required –

- 1) K<sub>2</sub>CrO<sub>4</sub> indicator – 5gm K<sub>2</sub>CrO<sub>4</sub> in 100ml distilled water
- 2) AgNO<sub>3</sub> (0.1N) – 16.99g AgNO<sub>3</sub> dissolved in 1 ltr distilled water standardise with 0.01N NaCl (Amber coloured bottle )

### Procedure -

5ml of sample solution is taken in a conical flask diluted by adding 25ml D.W. 5-6 drops K<sub>2</sub>CrO<sub>4</sub> indicator is added and titrated with std AgNO<sub>3</sub> till brick red colour appears.

### Calculation –

$$\text{Chloride (meq/liter)} = \frac{\text{TV} * \text{N of AgNO}_3 * 1000}{\text{ml of water sample}}$$

Reg.No. DRL/BGM/SOR/704/2016-17

# ಶೈತ ಮಿತ್ರ ಕೃಷಿ ಅಭಿವೃದ್ಧಿ ಸಂಘ (೦) ಸಂಕೇಶ್ವರ

ಎಮ್. ಪಿ. ಸೊಸಾಯಕಿ ಆಯಾಜ ರೋಡ,

ಸಂಕೇಶ್ವರ ತಾ : ಹುಕ್ಕೇರಿ ಜಿ : ಬೆಳಗಾವಿ

ನೀರು ಪರೀಕ್ಷಣೆಯ ವಿವರ

ಹೆಸರು : Rajakla. L. Bhoare.ಕ್ರ. ಸಂ. 23ಊರು : Khadakhet ತಾ : Chikkodi ಜಿ : Belgaum.ಬಾವಿ / ಕೊಳವೆ ಬಾವಿ / ನದಿ Riverದಿನಾಂಕ : 05/04/2019

ಪರಿಕ್ಷಣಾ ಪರಿಮಾಣ	ಪ್ರಮಾಣ / ಮಿತಿ	ನಿರೀಕ್ಷಣೆ
1 ಪಿ. ಎಚ್ (PH)	6.5 - 7.5	8.0
2 ಕ್ಷಾರ (EC ds/cm)	0.25-0.75	0.71
3 ಕೊಲ್ಡ್‌ಡ್ಸ್ ಮಿ. ಇಕ್ವಿಲಿ	0 - 5.0	2.0 ಲೀ/ಲೀಟರ್
4 ಕ್ಯಾಲ್ಸಿಯಮ್ ಇಕ್ವಿಲಿ	0 - 5.0	5.8 ಲೀ/ಲೀಟರ್
5 ಮ್ಯಾಗ್ನೀಸಿಯಮ್ ಇಕ್ವಿಲಿ	0 - 2.5	0.7 ಲೀ/ಲೀಟರ್
6 ಸೊಡಿಯಮ್ ಇಕ್ವಿಲಿ	0 - 5.0	0.808 ಲೀ/ಲೀಟರ್
7 ಫೋಸ್ಫಾರಿಸಿಯಮ್ ಇಕ್ವಿಲಿ	0 - 4.0	0.0102 ಲೀ/ಲೀಟರ್
8 ಕಾರ್ಬೋನೇಟ್ಸ್ ಇಕ್ವಿಲಿ	ಇಲ್ಲ	1.755 ಲೀ/ಲೀಟರ್
9 ಬೈ ಕಾರ್ಬೋನೇಟ್ಸ್ ಇಕ್ವಿಲಿ	0 - 1.5	2.92 ಲೀ/ಲೀಟರ್
10 ಸೊಡಿಯಂ ಅಬ್ಸಾರ್ಪ್ಷನ್ ರೇಟೋ	10 ಕ್ಕಿಂತ ಕಡಿಮೆ	0.444
11 ನೀರಿನ ಪ್ರಕಾರ	Hard Water	
12 ಇತರ TDS		387

ನೀರಿನ ಬಗ್ಗೆ ಸಲಹೆ :-

ನೀರಿನ ಕ್ಷಾರದ ಪ್ರಮಾಣ ಯೋಗ್ಯ / ಮಧ್ಯಮ / ಹೆಚ್ಚು ಇದೆ. ಬೆಳೆಗಳಿಗೆ ಉಪಯೋಗಿಸಲು ಯೋಗ್ಯ / ಅಯೋಗ್ಯವಾಗಿದೆ.

ಮಣ್ಣು ಪರಿಕ್ಷಣೆ



*Dr. M. C. Hosur*  
 ವಿಭಾಗ ಮುಖ್ಯಸ್ಥರು M.S.P.L.  
 Chief Administrator  
 Rail Mitra Krishi Abhivruddhi Sangh, (R)  
 SANKESHWAR, Tal: Hukkeri Dt: Belgaum

## RESULTS AND DISCUSSION:

The physicochemical parameters of the well of Benadi and borewell of Khadaklat been given in the table. Conductivity measures the electrical current, which is proportional to Lie mineral matter present in water. Conductivity is thus measurement of total dissolved solids [IDS] in water. Conductivity is represent in umhos/cm in water analysis. It is a very important parameter for determining the water quality for drinking and agricultural purpose. Conductivity value in water samples in borewell is 940 and well is 1180.

Dissolved *oxygen* is one of the most important factors in water quality assessment and reflects the physical and biological process prevailing in natural water. In present investigation the dissolved oxygen concentration higher in well water and lower in the borewell water . this may be due to the decomposition of organic matter was an important factors in consumption of dissolved oxygen.the presence of chlorides in natural water is mainly due to the dissolution of salts deposits. The maximum chloride concentration in borewell water and less in well.

Calcium is one of the important components of the plant tissues and regulates many physiological function in organism . in present work the minimum calcium in well and maximum in borewell.

Magnesium is sn essential constituent of chlorophyllous plants, as it forms the nucleolus of the prophyrin ring of the chlorophyll molecule in the present work maximum in well and less in borewell. It shows direct relation with the dissolved organic matter.

Nitrates is the most oxidized form of nitrogen which is the important plant material. The nitrate content of the water sample varies i.e. in more in borewell water and less in well.

Dissolved solids , which are also refered to as total dissolved solids are various-kinds of mineral substances present in water. The concentration of dissolved solids in water gives

an idea about suitability of this water for various uses including that of potable water. TDS are more in well and less in borewell.

BOD is of great importance In water quality assessment, seasonal variations in the values of bio chemical oxygen demand appears to be a function of changes in the degree of dilution, quantity of organic matter and the activity of microorganism carrying out decomposition of carbonous and nitrogenous wastes . it is more in borewell water and less in well water. So, before using borewell water one should analyse the water and then use.

## SUMMARY AND CONCLUSION

All phytoplankton groups are positively inter-co-related with each other. By observing the results one may conclude that the Bore well water contains high salts which directly effect the human health. So before using borewell water one should analyse the water and then use.

In present study, conductivity values of well is 1180 and borewell is 940. Dissolved oxygen concentration in borewell is 6.80 and maximum in well is 7.4. The total solids in the well is 708 and that of borewell is 573. Total alkalinity of well is 340 and borewell is 420.it is recorded low alkalinity in well and high in borewell due to dilution effect of rainfall. The total hardness is the total soluble magnesium salt present in the well is 199 and for borewell is 124 and for calcium in well is 200 and that of borewell is 216.Total alkalinity as  $\text{CaCO}_3$  for well is 340 and that of borewell is 420.The total hardness of chloride of borewell is 250 and that of well is 225.even that of nitrate in well is 10.87 and borewell is 11.26. The BOD of well is 0.60 and borewell is 0.70.

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Our teachers of chemistry Department were well co-operative and gave us more relevant information about "WATER ANALYSIS". And special thanks to, Dr M.C.Hosur Chief Administrator and Scientific Advisor, Rait Mitra Krishi abhivrudi sangha, Sankeshwar. Who guided us to know more about the analysis and to conduct the practical. Lastly it was a very unforgettable and highly memorable study tour to all of us.



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***Certificate Course in Chemistry***

This is to certify that Mr./Miss. Poojans S. Vadrale of

**B.Sc. VI Semester** has successfully completed a certificate course in **Water Analysis**

& Submitted the report during the academic year **2018-19**

  
Head

Department of Chemistry.



  
Convenor

  
Co-ordinator IOAC  
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**IOAC INITIATIVE  
Department of Chemistry  
REPORT ON Certificate Course on Water analysis**

Name of the Department	Chemistry					
Name of the Event Organized	Guest Lecture					
Title of the Event	Water analysis					
Date of the Event Organized	05/03/2019					
Name of the Convener	Shri. P. T. Narawade Smt. R. R. Mane					
Participants	144					
No. of Participants	Total	144	Teachers	12	Students	132
Name of the Expert with Designation	Dr. M. C. Hosur, Chief Administrator					
Contact Number & Address of the Expert	Rait Mitra Abhivruddhi Sangh, (R) at Sankeshwar					
Objectives of the Event	1. To understand the different types of water. 2. To make students to understand the different parameters of water analysis.					
Outcome of the Event	It enhances the skill of water analysis and can become self-entrepreneurship.					
Photo Gallery						
						

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**G. I. Bagewadi College, Nipani.**

**HOD**  
**Department of Chemistry**  
**K.L.E.'s G. I. B. College, Nipani.**

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**IQAC INITIATIVE**

Date: 08/03/2019

**Department of Chemistry**  
**Report**

**Certificate Course on Water Analysis for PCM students - 2018-19**

Now a days it is inevitable for us to move along with the advancement of technologies in various domains and learning beyond curriculum is the necessary thing for learners. To achieve these expectations Department of Chemistry has conducted Certificate course in Water Analysis during the Academic year 2018-19.

Department of chemistry conducted certificate course in chemistry which includes 16 hours theory and 16 hours practicals for B.Sc. VI<sup>th</sup> semester PCM students. A total 90 B.Sc. PCM students were enrolled for 'Water Analysis'. The classes were conducted from 06/01/2019 to 07/03/2019 by experienced faculty of chemistry department. Dr. M. C. Hosur delivered a lecture on soil and water analysis and elaborated pH of water and soil and improvement of the fertility of soil on 03/03/2019.

For the practical training on Water Analysis the students were divided into 4 batches and sent to 'Rait Mitra Krishi Abhivruddhi Sangh', (R) Sankeshwar on 01/03/2019 to 07/03/2019. During practicals students were exposed to measure the factors like acidity, turbidity, suspended particles, pH & conductivity etc and handled sophisticated instruments like absorption spectrophotometer, pH meter, conductometer, Kjeldahl's apparatus and flame photometer. After the completion of the Certificate Course a written test of 20 marks was conducted & Certificates were issued to all students.

  
**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
**PRINCIPAL**  
K. L. E. Society's  
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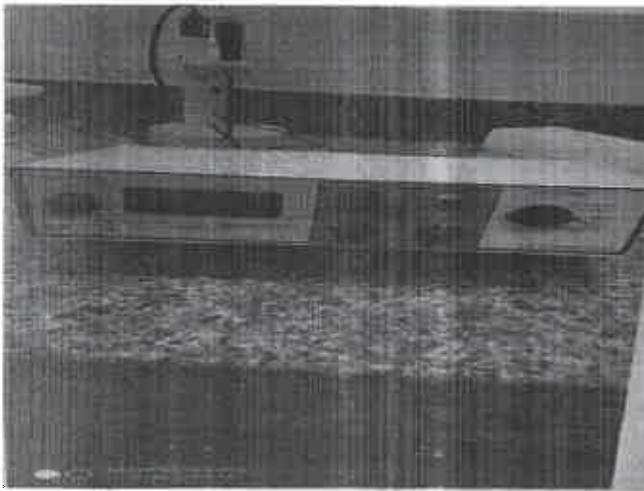
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**IQAC INITIATIVE**



Students at 'Rait Mitra Krishi Abhivruddhi Sangh', (R) Sankeshwar.



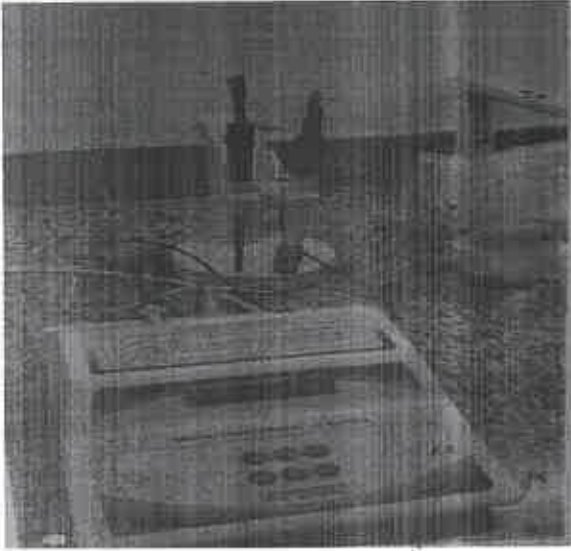




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**IOAC INITIATIVE**



Instruments handled by students at 'Rait Mitra Krishi Abhivruddhi Sangh',  
(R) Sankeshwar.

  
Convenor

  
HOD  
Head  
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**IQAC- Initiative**

Date: 27/12/2018


**Department of chemistry**  
**Certificate course - Soil Analysis**

**Notice**

The department of Chemistry organising Certificate course for B.Sc. VI<sup>th</sup> Semester CBZ students on "Soil Analysis" which is jointly organised with water Analysis Research Centre at Rait Mitra Abhivruddhi Sangh (R) at Sankeshwar.

All the B.Sc. VI<sup>th</sup> Semester CBZ students are here by informed to enroll their names to Prof. Prashant T. Narawade for certificate course in Chemistry, on or before 30/12/2018.

  
Convener

  
HOD  
Head  
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Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2018-19**  
ENROLLMENT FORM

Mr./Miss.: Abhisek A Chougale of Class : B.Sc VI Date: 11/01/19  
Roll No.: 91  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

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Mr./Miss.: Amit Ammanagi of Class : B.Sc VI Date: 21/01/19  
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ENROLLMENT FORM

Mr./Miss.: Anati Gore of Class : B.Sc VI Date: 02/01/19  
Roll No.: 93  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

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Staff Incharge

Head  
HOD  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.





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G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237  
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Website: [www.klegibnnpn.org.in](http://www.klegibnnpn.org.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2018-19**  
ENROLLMENT FORM

Mr./Miss.: Ashrafali Bangir of Class : B.Sc V Date: 21/01/19  
Roll No.: 94  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Rane  
Staff Incharge

HOD H  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2018-19**  
ENROLLMENT FORM

Mr./Miss.: Chaitali Hegde of Class : B.Sc VI Date: 21/01/19  
Roll No.: 95  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Rane  
Staff Incharge

HOD H  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2018-19**  
ENROLLMENT FORM

Mr./Miss.: Chaitoa Hosur of Class : \_\_\_\_\_ Date: 03/01/19  
Roll No.: 76  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Rane  
Staff Incharge



HOD H  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.

K.L.E. Society's  
G.I. Bagewadi Arts, Science & Commerce College Nipani  
'IQAC INITIATIVE'  
CERTIFICATE COURSE - SOIL ANALYSIS 2018-19

Roll. NO.	REG.NO	NAME OF THE CANDIDATES
91	S1617602	ABHISHEK APPASAB CHOUGULE
92	S1617614	AMIT AMMANAGI
93	S1617620	ARATI GORE
94	S1617624	ASHRAFALI BARGIR
95	S1617630	CHAITALI HEGADE
96	S1617631	CHAITRA HASURE
97	S1617633	DEVYANI UTTAM KHOT
98	S1617634	DHANASHREE HASURE
99	S1617635	DHANASHRI CHALAKE
100	S1617636	DHANASHRI PATIL
101	S1617637	DIGVIJAY NIGAVE
102	S1617639	DIVYA CHANDRAKUDE
103	S1617640	GAURAVKUMAR R CHOUGULE
104	S1617641	JAYASHREE BALIKAI
105	S1617643	KOMAL KADAM
106	S1617646	MADHURI SHELAKI
107	S1617648	MALAGOUD SIDDESHWAR PATIL
108	S1617650	MANOJ RAJENDRA KUMBAR
109	S1617655	NARENDRA RAMAGOWDA PATIL
110	S1617665	NOOTAN KURNE
111	S1617666	NUTAN RAVINDRA SHETTIMANI
112	S1617668	OMKAR MAGADUM
113	S1617671	PALLAVI SANGANE
114	S1617675	POOJA GHORPADE
115	S1617682	CHAVAN PRANALI PRAKASH
116	S1617689	PUJA KAREKAR
117	S1617691	RACHANA PATIL
118	S1617703	SANGRAM APPASAB SANADI
119	S1617706	SANTOSH BILAGE
120	S1617708	SEEMA LAGAMANNAVAR
121	S1617709	SHARAD BANNE
122	S1617711	SHEETAL MAGDUM
123	S1617712	SHIVATEJ CHOUGULE
124	S1617718	SHWETA SAPAGALE
125	S1617719	SNEHA KAMBLE
126	S1617722	SOUMYA PATIL
127	S1617729	SUNITA PANDURANG PATIL
128	S1617736	TEJAS PATIL
129	S1617740	VAISHNAVI AJAREKAR
130	S1617741	VAISHNAVI AMBALE
131	S1617750	YOGESH VARUTE
132	S1517663	POOJA REDDY
133	Trf adm	RAKESH TAKAMARE
134	Re-adm	GEETA KILLEDAR

*Baswade*  
CONVENER

*M. Bhatnagar*  
Principal  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

*[Signature]*  
H.O.D CHEMISTRY  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.







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## Certificate Course in Soil Analysis Syllabus Scheme

Sr. No.	Paper No.	Total workload	Max. Marks	Internal marks	Total marks
1.	Paper – Theory	16 Hours	40	10	50
2.	Paper - Practical	16 Hours	40	10	50
				Total Marks	100







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### IQAC INITIATIVE

#### Department of Chemistry Certificate Course in Soil Analysis Syllabus for Soil Analysis

Lectures to be delivered: 16 Hours

Max. Marks: 40

Periods per Month: 04

#### Unit – I: Introduction

4 Hours

Definition of Soil, Concept of Lithosphere, Soil as a natural body, Soil Components: Air, Water, inorganic and organic solids, Formation of Soil, Types of Soils & Basic Concepts.

#### Unit – II: Properties of Soil

8 Hours

Introduction to properties of Soil:

##### A) Physical Properties:-

Soil Separates, Texture, Aggregation and Structure, Temperature, Colour, Properties of Soil Mixture, Pore Space, Bulk Density, Particle Density, Aeration and Drainage, Compaction, Surface area, Soil water Relationships.

##### B) Chemical Properties:-

Morphology of Colloids, Chemistry of Clays, Ionic Exchange, Acidity, Alkalinity, pH, Salinity, Reactions in Liming and Acidification.

##### C) Biological Properties:-

Soil Organic Matter, C: N Relationships, N-Transformation, Soil Organisms, Sulfur Transformation.

#### Unit – III: Soil Profile & Classification

4 Hours

Soil profile, Soil forming factors, soil survey methods, soil survey reports, Soil distribution, classification system.

#### Books Recommended:

1. Soils and soil fertility, Troch, F.R. And Thompson, L.M. Oxford Press.
2. Fundamentals of soil science, foth, H.D. Wiley Books.
3. Soil Science and Management, Plaster, Edward J., Delmar Publishers.
4. Principles of Soil Chemistry (2Wed.) Marcel Dekker Inc., New York.
5. Handbook of Agricultural Sciences, S.S.Singh, P.Gupta, A.k.Gupta, Kalyani Publication.





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## PRACTICALS

### Soil Analysis & Testing Methods

No. of practicals: 12

Max Marks : 40

1. Visit to Soil Testing Laboratory & Report writing.
2. Visit to Farmers Fields for Collection of Soil Samples, identification of nutrient deficiency Symptoms in Crop.
3. Preparation of Various Chemical reagents required for soil testing.
4. Processing of Soil Sampling for analysis
5. Determination of pH of soil sample using pH meter
6. Determination of Electrical Conductivity of Soil Sample using Electrical. Conductivity meter.
7. Determination of Organic Carbon by wet Oxidation method.
8. Determination of available Nitrogen from Soil Sample.
9. Determination of available phosphorus from soil sample.
10. Determination of available Potassium from soil sample.
11. Determination of Calcium Carbonate from soil sample.
12. Determination of micronutrients from soil sample.

#### Books Recommended:

1. Introduction to soil laboratory manual -J.J.Harsett stipes.
2. Introduction to soil science laboratory manual, Palmer and troch - Iowa state.





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BScCC<sub>2</sub>

## DEPARTMENT OF CHEMISTRY

### Certificate Course (Soil Analysis)

2018-19

### STAFF LIST

- Dr. A. S. Jaganure
- Prof. G. B. Kumbar
- Mr. P. T. Narawade
- Miss. D. K. Kanagali
- Miss. R. R. Ghatage

  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.

  
Principal  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





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**BScCC<sub>2</sub>**

**DEPARTMENT OF CHEMISTRY**  
**CERTIFICATE COURSE (Soil Analysis)**  
**TIME TABLE 2018-2019**

DAY	PRACTICAL ( 1pm – 5pm)
06/01/2019	PTN
13/01/2019	ASJ
20/01/2019	GBK
27/01/2019	DSK
03/02/2019	SMN
10/02/2019	PTN
17/02/2019	RRM
24/02/2019	SMN
03/03/2019	DSK
10/03/2019	RRM
17/03/2019	Practical test paper

  
Convener

  
Head of Department  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
G.I.Bagewadi Arts, Science  
& Commerce College, Nipani





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BScCC<sub>2</sub>



Date 01/03/2019

**"IQAC Initiative"**  
**Certificate Course in Chemistry – Soil Analysis**  
**(Academic year 2018-19)**

The certificate course is part of practical skill based initiative programme to Chemistry students to enrich their knowledge about Soil Analysis and is compulsory for all B.Sc. VI<sup>th</sup> semester students.

For the academic year 2018-19 the department of Chemistry organize the certificate course in 'SOIL ANALYSIS' for B.Sc. VI<sup>th</sup> semester CBZ students. The soil Analysis is carried out at "Soil Analysis research center" at Rait Mitra Abhvivrudhi Sangh, (R), at Sankeshwar.

**Schedule for Soil Analysis**


All B.Sc. VI<sup>th</sup> Semester CBZ students are hereby informed to attend Practical & Theory Classes on Soil analysis at Rait Mitra Abhvivrudhi Sangh, (R), research center Sankeshwar from 04/03/2019 to 05/03/2019 with the Staff in charge as per the following Time table.

Day	Date	Students Roll. No	Staff Incharge
Monday	04/03/2019	91 to 132	Shri.P.T.Narawade Miss. D. S. Kanagali.
Tuesday	05/03/2019	91 to 132	Dr. A. S. Jaganure Miss. D. S. Kanagali.

The students are informed to be present at Rait Mitra Abhvivrudhi Sangh, (R), MP Society, Azad road Sankeshwar sharp at 10 am. without fail.

  
Convener



  
HOD  
Chemistry  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.











Reg. No.	Roll No.	Student Name																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
126		Soumya Patil	1	2	3	4	5	6	7	8										
127		Sunita patil	1	2	2	3	4	4	5	6										
128		Tejas patil.	1	2	2	3	3	4	5	6										
129		Vaishnavi Ajasekar	1	2	2	3	3	3	4	5										
130		Vaishnavi Ambale	1	2	3	4	4	5	6	6										
131		Yegesh Vasude	1	2	3	4	5	6	7	8										
132		poopa Reddy	1	2	3	4	4	5	5	6										
133		Rakesh Takamade	1	2	3	4	4	5	6	7										
134		Greta Killedar.	1	2	3	4	5	6	6	7										

  
**Co-ordinator IQAC**  
 K. L. E. Society's  
 G. I. Bagewadi College, Nipani.

  
**PRINCIPAL**  
 K. L. E. Society's  
 G. I. Bagewadi College, Nipani.





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IQAC- Initiative

**Department of chemistry**  
**Certificate course - Soil Analysis**  
**Marks Statement – 2018-19**

Roll. NO.	NAME OF THE CANDIDATES	Marks Obtained [20]	Roll. NO.	NAME OF THE CANDIDATES	Marks Obtained [20]	Roll. NO.	NAME OF THE CANDIDATES	Marks Obtained [20]
91	ABHISHEK APPASAB CHOUGULE	18	108	MANOJ RAJENDRA KUMBAR	13	125	SNEHA KAMBLE	14
92	AMIT AMMANAGI	20	109	NARENDRA RAMAGOWDA PATIL	16	126	SOUMYA PATIL	18
93	ARATI GORE	15	110	NOOTAN KURNE	14	127	SUNITA PANDURANG PATIL	19
94	ASHRAFALI BARGIR	14	111	NUTAN RAVINDRA SHETTIMANI	10	128	TEJAS PATIL	17
95	CHAITALI HEGADE	16	112	OMKAR MAGADUM	15	129	VAISHNAVI AJAREKAR	16
96	CHAITRA HASURE	17	113	PALLAVI SANGANE	14	130	VAISHNAVI AMBALE	10
97	DEVYANI UTTAM KHOT	19	114	POOJA GHORPADE	17	131	YOGESH VARUTE	09
98	DHANASHREE HASURE	13	115	CHAVAN PRANALI PRAKASH	18	132	POOJA REDDY	16
99	DHANASHRI CHALAKE	12	116	PUJA KAREKAR	19	133	RAKESH TAKAMARE	13
100	DHANASHRI PATIL	15	117	RACHANA PATIL	12	134	GEETA KILLEDAR	13
101	DIGVIJAY NIGAVE	16	118	SANGRAM APPASAB SANADI	13			
102	DIVYA CHANDRAKUDE	16	119	SANTOSH BILAGE	16			
103	GAURAVKUMAR R CHOUGULE	18	120	SEEMA LAGAMANNAVAR	18			
104	JAYASHREE BALIKAI	17	121	SHARAD BANNE	15			
105	KOMAL KADAM	16	122	SHEETAL MAGDUM	17			
106	MADHURI SHELAKA	15	123	SHIVATEJ CHOUGULE	15			
107	MALAGOUD SIDDESHWAR PATIL	13	124	SHWETA SAPAGALE	19			

  
Convener

  
HOD  
PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.





K.L.E. Society's,  
G.I. Bagewadi Arts, Science and Commerce and PG College  
Nipani-591237  
(Affiliated to Rani Channamma University, Belgavi)





Department of Chemistry

2018-19

## CERTIFICATE

This is to certify by <sup>✓</sup>Mr/ Miss. Ganavtumbar R. Chougale  
.. B.Sc. VI Sem Student has satisfactorily completed the project in Chemistry  
prescribed by the Rani Channamma University, Belgavi for B.Sc. VI  
Semester of this college in the year 2018-19.

  
Staff Incharge

Examiner   
11/4/19  
  
11/4/19



  
Head of Department

ACKNOWLEDGEMENT

K.L.E. Society's,  
G.I. Bagewadi Arts, Science and Commerce and PG College  
Nipani-591237  
(Affiliated to Rani Channamma University, Belgavi)



Certificate Course in Chemistry

Project Report on

SOIL ANALYSIS

Submitted by:

✓  
Mr / Miss. Gauravkumar Rajendra Chougale

.. of B.Sc. VI Sem. Student

To,

THE DEPARTMENT OF CHEMISTRY

Lchougale  
Signature  
Of Student

[Signature]  
Signature of  
Staff Incharge

[Signature]  
HOD  
Chemistry

[Signature]  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



[Signature]  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



## DECLARATION

Mr./Miss. Gauravkumar Rajendra chougale of B.Sc. VI Semester Studying in K.L.E's " G.I. Bagewadi College, Nipani. Hereby declare that this project is genuine and original work of study prepared by me. It is based on the data and information collected by me. To the best of my knowledge and belief, the matter presented in this report has not been copied from any report submitted to Rani Chanamma University, Belagavi, to Complete B.Sc.

I Hope this report will serve the purpose.

Place: Nipani

Gauravkumar Rajendra chougale  
Signature

Date: 02/04/2019

( \_\_\_\_\_ )  
Name: Gauravkumar Rajendra chougale

# INDEX

SL NO.	Content
1	Introduction
2	Types of soil
3	Composition of soil
4	Estimation of Carbon
5	Estimation of $\text{CaCO}_3$
6	Estimation of sodium and potassium
7	Determination of pH of soil and water
8	Determination of EC of soil and water
9	Estimation of phosphorous by spectrophotometer
10	Estimation of nitrogen by kjeldahl's method
11	Estimation of micronutrients from atomic absorption spectrophotometer
12	Results & Discussion
13	Summary & conclusion
14	Acknowledgement

# Soil analysis

## Introduction

To design a good sampling plan for soil and water testing, one needs to consider the basic facts related to soil formation and water cycling. For both soil and water, we are dealing with complex systems, where biological, chemical and physical factors all interact. Also, soil and water are interconnected, and farming practices affect both soil and water quality. A brief explanation of some of these basic factors related to soils will be covered in this section.

**Soil Formation and Conservation** The process of soil formation has been going on since the surface of the earth cooled. The factors that determine what the soil looks like now include; 1) parent material (the rock from which it formed), 2) time (is this a "young" soil or an "old" soil), 3) climate, 4) topography, and 5) biological processes. The parent material, or rock, will often determine the basic chemistry of the soil. Soils formed from limestone for example, will have a native, or natural pH that is higher than soil formed from other materials. If one looks at a soil profile, or cross section, you will find the parent material, or rock in the lower layers. In Kansas, most of our soils have been formed from limestone, shale, or sandstone. Some soils have been formed from an original soil that was formed in another region, and then moved. Soil deposited by water, for example a river, are called alluvium. Wind deposited soils, common in parts of the great plains, are called loess. The time that a soil has had to form will often affect the amount of layering, or differentiation from the top of the profile to the bottom. An older soil will have a "topsoil" layer, that will be darker, and higher in organic matter (from centuries of contributed plant and animal matter), and the lower layers will be progressively lighter in color, and generally lower in organic matter and nutrient content. An example of a "young" soil would be an area where a river has recently deposited soil, or alluvium, to a particular area. In parts of the world with active volcanoes, the volcanic ash layers will begin to form soil layers, and then may be covered again by ash. In some of these areas, one can find buried soil horizons. A soil that is nearly the same color throughout the profile, especially when there is little change in the properties of the profile horizons is probably a young soil. Climate also affects soil formation. In hot climates, many of the minerals will be oxidized, and the iron in the soil and clay will be a reddish color, rather than gray or black. Organic matter will also decompose more rapidly in a hot climate, and within the great plains region, the native soils in Minnesota will be darker, and much higher in organic matter than those in Texas. Rainfall also affects soil formation. In areas of extremely high annual rainfall, some minerals, and in some cases, organic matter will have been leached from the topsoil to a lower layer. The pH may be lower on these soils, due to the leaching of calcium from the topsoil. Areas of low rainfall, especially where annual rainfall is less than the annual evaporation, will accumulate minerals, including calcium and other salts on the surface. Topography often affects how much erosion has taken place. Soils on top of hills or on steep side slopes tend to be thinner, or more eroded than those on the slopes, and at the bottom or "toe" of a slope, one can find zones of soil accumulation. Management, along with

topography will also affect how much erosion has, and is continuing to take place. The thinner, or more eroded soils will often be lower in organic matter, since they have lost their topsoil layer. The clays in the subsoil layers are then on the top. A field that is "patchy" in color will probably have had some erosion historically. Biological processes that affect soil have historically been determined by the native or natural vegetation. Soils that form under forests are very different than those that have formed in grassland regions. Much of the soil in the Great Plains was formed when the region was covered by prairie grasses. This soil is very fertile, and rich in organic matter compared to soils of other regions. The deep grass roots added organic matter to a depth of several feet in some cases, leading to the formation of the rich, dark soils that have made Kansas the "breadbasket" of the world. Tillage, and planting of annual crops on these soils has halted this addition of organic matter, but reduced tillage and adding perennial crops into the rotation can help maintain the organic matter that is left. The nutrient content of soil now will be a combination of; 1) the starting natural fertility of the parent material (Kansas soils, for example, tend to be naturally high in potassium), 2) the subtraction of nutrients as a result of erosion and crop use since the land has been tilled (generally for the past 100 years or so), and 3) additions of fertilizer sources such as manures, composts, legumes, and mineral fertilizers. When designing a soil sampling program, one needs to consider all of these factors. Knowing the soil type (from soil survey maps), topography, and field histories (crops grown and fertility sources) will help you design a plan to answer specific farm management questions.

### **Definition of soil:**

Soil is a mixture of organic matter, minerals, gases, liquids, and organisms that together support life. The Earth's body of soil is the pedosphere, which has four important functions: it is a medium for plant growth; it is a means of water storage, supply and purification; it is a modifier of Earth's atmosphere; it is a habitat for organisms; all of which, in turn, modify the soil.

### **Types of soil:**

#### **I. Based on the dominating size of the particles within a soil**

II. Sand 2. Silt 3. Peat 4. Clay 5. Chalk 6. Loam

#### **II. Based on colour**

1. Alluvial Soils: 2. Black Soils: 3. Red Soils 4. Laterite Soils:

5. Mountain Soils 6. Desert Soils:

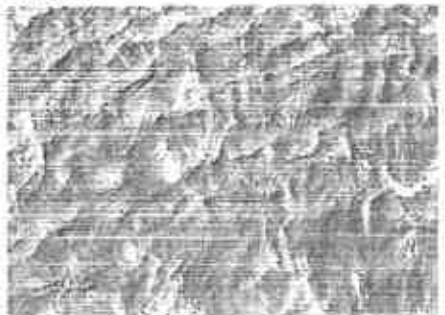
## I. Based on the dominating size of the particles within a soil

### 1. Sand



The first type of soil is the sand. It consists of small particles of weathered rock. Sandy soils are one of the poorest types of soils to grow any kind of plant because it stops the soil from retaining water and makes it hard for the plants roots to absorb water. But this type of soil plays a very good role in the drainage system.

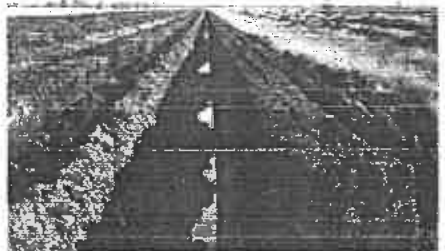
### 2. Silt



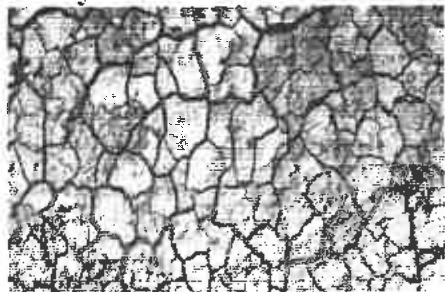
Silt, which is known to have much smaller particles compared to the sandy soil and is made up of rock and other mineral particles which are smaller than sand and larger than clay. It is the smooth and quite fine quality of the soil that holds water better than sand. Silt is easily transported by moving currents and it is mainly found near the river, lake beds, etc. The silt is more fertile soil compared to other three types of soil. Therefore it is also used in agricultural practices to improve soil fertility.

### 3. Peat

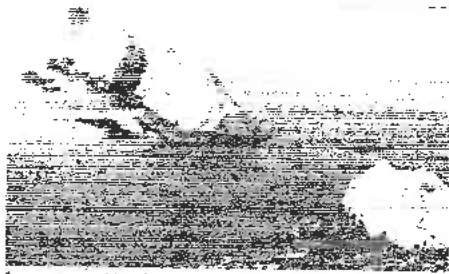
This soil is also called turf (/tɜːrf/), is an accumulation of partially decayed vegetation or organic matter that is unique to natural areas called peatlands, bogs, mires, moors, or muskegs.[1][2] The peatland ecosystem is the most efficient carbon sink on the planet,[2] because peatland plants capture CO<sub>2</sub> naturally released from the peat, maintaining an equilibrium. In natural peatlands, the "annual rate of biomass production is greater than the rate of decomposition", but it takes "thousands of years for peatlands to develop the deposits of 1.5 to 2.3 m [4.9 to 7.5 ft], which is the average depth of the boreal [northern] peatlands".[2] Sphagnum moss, also called peat moss, is one of the most common components in peat, although many other plants can contribute. Soils consisting primarily of peat are known as histosols. Peat forms in wetland conditions, where flooding obstructs the flow of oxygen from the atmosphere, slowing the rate of decomposition



### 4. Clay



Clay is the smallest particles amongst other two types of soil. The particles in this soil are tightly packed together with each other with very little or no airspace. This soil has a very good water storage qualities and making hard for moisture and air to penetrate it. It is very sticky to the touch when wet, but smooth when dried. Clay is the densest and heaviest type of soil which do not drain well or provide space for plant roots to flourish



is expelled upwards during compaction. Flint is often deposited around larger fossils such as Echinoidea which may be silicified (i.e. replaced molecule by molecule by flint).

**5. Chalk** Chalk soil is a soft, white, porous, sedimentary carbonate rock, a form of limestone composed of the mineral calcite. Calcite is an ionic salt called calcium carbonate or  $\text{CaCO}_3$ . It forms under reasonably deep marine conditions from the gradual accumulation of minute calcite shells (coccoliths) shed from micro-organisms called coccolithophores. Flint (a type of chert) is very common as bands parallel to the bedding or as nodules embedded in chalk. It is probably derived from sponge spicules or other siliceous organisms as water



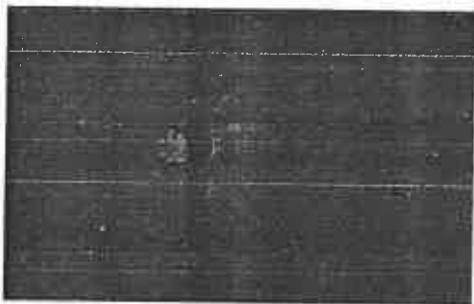
**6. Loam.** Loam is the fourth types of soil. Even though it is a combination of sand, silt, and clay. It is the gardener's favorite kind of soil. Among all these three types of soil, this loamy soil is more suitable for farming. Loam soil is also referred to as an as it includes an equilibrium of all three types of soil materials being sand, clay and silt and also happens to have humus. Apart from these, it also has a higher calcium and pH levels because of its previous organic material content.

## II. Based on colour

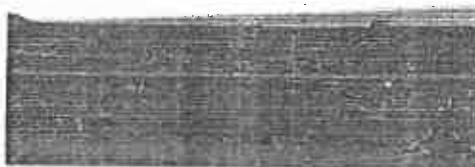


### 1. Alluvial Soils:

These are formed by the deposition of sediments by rivers. They are rich in humus and very fertile. They are found in Great Northern plain, lower valleys of Narmada and Tapti and Northern Gujarat. These soils are renewed every year.



**2. Black Soils:** These soils are made up of volcanic rocks and lava-flow. It is concentrated over Deccan Lava Tract which includes parts of Maharashtra, Chhattisgarh, Madhya Pradesh, Gujarat, Andhra Pradesh and Tamil Nadu. It consists of Lime, Iron, Magnesium and also Potash but lacks in Phosphorus, Nitrogen and Organic matter.



**3. Red Soils:** These are derived from weathering of ancient metamorphic rocks of Deccan Plateau. Its redness is due to iron composition. When iron content is lower it is yellow or brown. They cover almost the whole of Tamil Nadu, Andhra Pradesh.



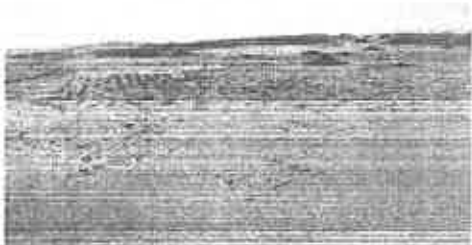
**4. Laterite Soils:** These soils are formed due to intense leaching and are well developed on the summits of hills and uplands. They are commonly found in Kerala, Tamil Nadu, Maharashtra, Chhattisgarh and hilly areas of Orissa and Assam



**5. Mountain Soils:** These soils are formed as a result of the accumulation of organic matter derived from forest growth. They are found in Himalayan region and vary in different regions according to altitude. Tea is grown in those areas which receive sufficient rainfall.



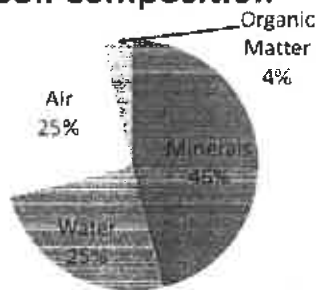
**6. Desert Soils:** In the desert regions of Rajasthan, soils are not well developed. As evaporation is in excess of rainfall, the soil has a high salt content and saline layer forms a hard crust. These soils are generally sandy and deficient in organic matter.



### Composition of soil

The basic components of soil are minerals, organic matter, water and air. The typical soil consists of approximately 45% mineral, 5% organic matter, 20-30% water, and 20-30% air. These percentages are only generalizations at best. In reality, the soil is very complex and dynamic. The composition of the soil can fluctuate on a daily basis, depending on numerous factors such as water supply, cultivation practices, and/or soil

### Soil Composition



type.

## Estimation of carbon

### Solution required :-

- 1) Pottasium dichromate 1N – 49.0 g in 1 Ltr
- 2) (conc) Sulphuric acid
- 3) Ferrous ammonium sulphate 0.1N – 39.2 g in 1 Ltr
- 4) Ferriin indicator

### Procedure :-

1gm of soil is weighed accurately placed in a 100ml conical flask , 10ml of 1.0N Pottasium dichromate and 10ml (conc) Sulphuric acid are added. Kept for 1hour to complete the reaction. To this 30ml distilled water is added and filtered. 10ml of filterate is titrated with 0.5N Ferrous ammonium sulphate using Ferriin indicator the reading is recorded.

### Blank

10ml of 0.5N Pottasium dichromate is pipette into a 100ml conical flask , 20ml 5N Sulphuric acid is added and two drops of Ferriin indicator is added and titrated against 1.0N FAS end point green to wine red.

### CALCULATION-

$$\% \text{ Of Carbon} = \frac{(\text{blank-burette reading}) * \text{Normality of FAS} * 0.003 * 100 * 5}{\text{Weight of soil taken}}$$

Weight of soil taken

## Estimation of CaCO<sub>3</sub> in the soil

### Solution required –

- 1) 0.1N Hcl - 9ml of (conc) Hcl dissolved in 1ltr D.W.
- 2) 0.1N NaOH -4g of NaOH dissolved in 1 ltr D.W.
- 3) Phenolphthalein indicator

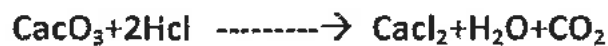
### Procedure -

Weight 5gm of completely dried soil place it in 250ml conical flask add exactly 100ml of 0.1 N Hcl shake for few minutes keep it for 1 hr for completion of the reaction . Pipette out 10ml of supernat liquid in 100ml conical flask add 1 – 2 drops of phenolphthalein indicator and titrate with 0.1N NaOH till colour changes from colourless to pale pink.

### Calculation –

$$\frac{(\text{Blank} - \text{B.R.}) * (\text{N of NaOH}) * (\text{vol. Of Hcl added}) * 100}{(\text{Volume of Hcl pipeted}) (\text{weight of soil})}$$

### Equation & Conversion factor



$$1\text{mole CaCO}_3 = 2\text{mole Hcl}$$

$$100\text{g CaCO}_3 = 73\text{g Hcl}$$

$$50\text{g of CaCO}_3 = 36.5\text{g Hcl}$$

$$50\text{g of CaCO}_3 = 1000\text{ml 1N Hcl}$$

$$\therefore .1\text{ml 1N Hcl} = \frac{50}{1000} = 0.05\text{g CaCO}_3$$

## Estimation of Sodium and Potassium

### Solution required –

- 1) Ammonium acetate 1N - 77g of Ammonium acetate dissolved in 1ltr D.W. pH of solution should be adjusted to 7 by 0.1 N HCl ( few drops).
- 2) 1000ppm KCl- 1.908g of A.R. grade KCl dissolved 1 ltr D.W.
- 3) 1000ppm NaCl - 2.54g of NaCl dissolved in 1 ltr D.W.

To warm the flame photometer switch on the electrical button after 5min switch on the compressor. Then turn on gas connection adjust the flame blue colour. first take blank reading then put the capillary in test solution observing readings for Na and K.

### Procedure –

1000ppm NaCl and KCl convert to 100ppm by taking 10ml of the 1000ppm solution & dilute to 100ml. From 100ppm NaCl and KCl the following std solutions are prepared 5, 10, 15, 20, 30, 40. By taking 5, 10, 15, 20, 30, 40ml of 100ppm solution is taken 100ml vol.flask and diluted 100ml with these solution readings were taken from flame photometer to calibration of the instrument.

5g of finely powdered dry soil is taken , 25ml of ammonium acetate is added shake for 5min and kept for 1hr for completion of the reaction. The solution is filtered and percentage of Na and K is determined by using flamephotometer.

### Calculation –

$$\text{Available K Kg/ha} = \frac{\text{Graph ppm} * \text{volume of extractant} * 2.24 * 10^6}{10^6 * \text{weight of soil}}$$

## DETERMINATION OF pH OF A SOIL SOLUTION & WATER

Before taking the pH of soil solution or water put on the power of pH meter at least 15 to 20min earlier.

### PREPARATION OF SOIL SOLUTION

20gm of powdered dry soil is weighed accurately & placed in 50ml distilled water stirred & kept for 3 to 4 hours till soil settles completely.

#### Procedure

4, 7 & 9.2 pH 3 to 4 standard buffer solutions of 4, 7, 9.2 pH are prepared & their readings are taken by dipping the pH cell . then washed the cell & dipped in soil solution and once again reading recorded .

For water- 50ml of water is taken in a beaker & the cell is dipped in it & the reading recorded.

## DETERMINATION OF EC OF SOIL AND WATER

Before taking the EC reading of soil a water put on the power of conductivity meter.

Preparation of 0.1N KCl- Analytical grade KCl is used for the preparation of standard solution. 0.746g og KCl is weighed accurately & dissolved in 100ml distilled water to get 0.1N solution.

PROCEDURE- First take 50ml of distilled water in a beaker dip the cell in it & adjust the cell constant to 0.900

Then 50ml of 0.1N KCl is taken in a clean dry beaker & dipped the EC cell in it & the reading is recorded ,it should be around 1.413ds/m

For soil dip the cell in the supernant liquid of soil solution & record the reading . in case water 50ml of water is taken in a clean beaker & cell is dipped in it & the reading is recorded.

## Estimation of phosphorus by spectrophotometer

### Solution required –

- 1) 0.5N NaHCO<sub>3</sub> solution – 42g of NaHCO<sub>3</sub> is dissolved in about 900ml distilled water adjust the pH to 8.5 by adding (dil) NaOH or HCl and make the volume 1 ltr by adding distilled water.
- 2) 5.0 N H<sub>2</sub>SO<sub>4</sub> – 140ml of (conc) H<sub>2</sub>SO<sub>4</sub> placed in 1ltr v. Flask dilute with D.W.
- 3) Reagent A – Dissolve 6g of Ammonium molybdate in hot distilled water 0.1954g of Antimony potassium tartarate is dissolved in D.W. separately . place both the solutions in 1000ml v.flask add 500ml 5N H<sub>2</sub>SO<sub>4</sub> and make the volume to 1000cc.
- 4) Solution B – Dissolve 1.056g Ascorbic acid in 200ml of reagent A.
- 5) P-Nitrophenol-0.5g of P-Nitrophenol dissolved in 100ml D.W.

### Drawing of standard graph

#### Preparation 100ppm KH<sub>2</sub>PO<sub>4</sub> solution -

KH<sub>2</sub>PO<sub>4</sub> is dried at 60<sup>0</sup>c then 0.4387g of it is weighed accurately. Dissolve it in 500ml D.W. Add 25ml 5N H<sub>2</sub>SO<sub>4</sub> make up the solution to 1000ml. This is 100ppm KH<sub>2</sub>PO<sub>4</sub> solution.

Preparation of 2ppm KH<sub>2</sub>PO<sub>4</sub> solution- 2ml of 1000ppm solution is taken in 100ml v. Flask diluted to get 2ppm solution. From this following standard solution are prepared 0.08, 0.16, 0.24, 0.32, 0.4, 0.48, 0.56, 0.64, 0.72 and 0.8 ppm by taking 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10ml of 2ppm solution in 25ml v. Flask to all these solutions add 5ml 0.5N NaHCO<sub>3</sub> 1-2 drops of P-Nitrophenol and 5N H<sub>2</sub>SO<sub>4</sub> till yellow colour disappears, then add 4ml solution B and then dilute to 25ml with D.W.

All these solution were kept for 1 hr and reading are taken, from these readings a graph is drawn by putting Absorbance on Y-axis VS ppm on X-axis.



## Estimation of nitrogen by kjeldahl's method

### Chemicals required -

- 1) 0.32% KMnO<sub>4</sub> - 3.2g KMnO<sub>4</sub> dissolved in 1 lit distilled water.
- 2) 2.5% NaOH - 25g of NaOH dissolved in 1 lit water.
- 3) Boric acid- 20g of Boric acid dissolved in 900ml water. Added 20ml mixed indicator dilute to 1 lit.
- 4) Mixed indicator- 0.1g Bromo cresol green + 0.07g of methyl red dissolve in 100ml alcohol.
- 5) Liquid paraffin-1ml for each sample.
- 6) 0.1N H<sub>2</sub>SO<sub>4</sub> - 2.7ml of (conc) H<sub>2</sub>SO<sub>4</sub> dissolved in 1 lit D.W. standardise with 0.1 NaOH.

### Procedure -

Weight accurately 10g of soil, place it in the kjeldahl's flask. Then add 5ml liquid paraffin, 2 to 3 boiling chips, 100ml distilled water and 100ml 0.32% KMnO<sub>4</sub> solution. Fit the flask with kjeldahl's trap and place a conical flask containing 25ml Boric acid at the tip of the condenser, see that tip of the condenser dips in Boric acid. All the fittings should be air tight. then add 100ml 2.5% NaOH from the sides and immediately after addition close the cock. Then heat the flask for 1 hr on heating mantle. After 1 hr first remove the flask cool and titrate with 0.1N H<sub>2</sub>SO<sub>4</sub> till the colour changes from green to wine red. the reading is recorded and the nitrogen content of the soil is calculated with the following formula.

### Observation -

- 1) Wt of soil -
- 2) Burette reading -

### Calculation -

$$\text{Available Nitrogen Kg/h} = \frac{\text{B R} * (\text{Normality of H}_2\text{SO}_4) * (0.014) * (2.24) (10^6)}{\text{Wt of sample}}$$

Wt of sample

## ESTIMATION OF MICRONUTRIENTS FROM ATOMIC ABSORPTION SPECTROPHOTOMETER

### PROCEDURE –

- 1) Preparation of soil solution - 15gm of dry soil + 30ml DTPA solution – shake it for 2 hours. Then filter to get completely clear solution.
- 2) Preparation of standard solution - For Iron, Cu & Mn – prepare 100ml 1, 2 & 3 ppm solution by taking 1, 2 & 3ml of std 1000ppm Iron solution. For Zn – prepare 100ml 0.2 & 0.4 & 0.6 ppm solutions by taking 0.2 & 0.4 & 0.6 ml of std 1000ppm Zn solution in 100ml volumetric flask & dilute.

### PROCEDURE FOR OPERATING THE AAS MACHINE

- 1) Start the compressor, CPU & AAS machine
- 2) Adjust the compressor air to 10 to 15 atm pressure & acetylene gas pressure to 10atm by operating the knob on the cylinder
- 3) On AAS machine adjust the air pressure to 10 to 15 atm & acetylene gas pressure to 2atm pressure
- 4) Click AAS I-com on monitor then click on com - I, now display appears, then click on index & wait for 5 to 10min.
- 5) Select the required metal & rotate the corresponding bulb & close the door.
- 6) Then adjust the lamp current for Zn & Cu – 5.0 & for Fe & Mn – 7.0
- 7) Now click on peak search & the peak should be above 70%
- 8) EHT should be adjusted to approximately 850 by rotating the knob on AAS.
- 9) When absorbance is above 70% then ignite the flame & once again click on peak search it should be 70% & above. EHT should be around 850.
- 10) Then go to menu- II & dip absorbing pipe in distilled water & zeroing is done & the reading should be zero for distilled water.
- 11) Click on std icon & type number of std solution & their ppm value.
- 12) Take 50ml of std solution place the sucking pipe in it & observe the reading after taking all the three std solution reading observe the graph it should inclined straight line.
- 13) Now place 50ml of soil solution in a beaker & dip sucking pipe & record the reading.
- 14) All the reading should be saved with appropriate number, name & date.

### CLOSING PROCEDURE

- 1) Gas connection is closed
- 2) Air connection is closed
- 3) Now go to menu – I from menu – II & exit.
- 4) Put off lamp current & the main current
- 5) Acetylene gas knob on the cylinder should be closed & put off the compressor.

**NOTE –** While taking soil solution reading the EHT should be around 850 & for different metal samples first zeroing should be done.

# ರೈತ ಮಿತ್ರ ಕೃಷಿ ಅಭಿವೃದ್ಧಿ ಸಂಘ (೦) ಸಂಕೇಶ್ವರ

ಎಮ್. ಪಿ. ಸೊಸಾಯಟೆ ಆರುದ ರೋಡ

ಸಂಕೇಶ್ವರ ತಾ : ಹುಕ್ಕೇರಿ ಜಿ : ಬೆಳಗಾವಿ

ಮಣ್ಣು ಪರಿಶೋಧನಾ ಪ್ರಯೋಗಶಾಲೆ ಮಣ್ಣು ಪರಿಶೋಧನಾ ವಿವರ

ಹೆಸರು : GAURAKUMAR R. CHOU GULE

ಸರ್ವೆ ನಂ :

ಊರು : MANGUR

ಬೆಳೆ :

ಕ್ರಮ ಸಂಖ್ಯೆ : 3

ದಿನಾಂಕ : 02/04/2018

ಪರಿಶೋಧನೆಯ ಪರಿಮಾಣ	ಪ್ರಮಾಣ / ಮಿತಿ	ನಿರೀಕ್ಷಣೆ
1 ಪಿ. ಎಚ್. (PH)	6.5 - 7.5	7.96
2 ಕ್ಷಾರತೆ (Ec ds/m)	1.0 ಕ್ಕಿಂತ ಕಡಿಮೆ	2.18
3 ಸಾವಯವ ಕಾರ್ಬನ್ %	0.75 ಕ್ಕಿಂತ ಹೆಚ್ಚು	1.05 %
4 ಫಾಸ್ಪರಸ್ ಕಿ/ ಹೆ (P)	14 - 21	93.2 kg/h
5 ಫೋಸ್ಫಾರ್ ಕಿ/ ಹೆ	151 - 250	142.2 kg/h
6 ಕ್ಯಾಲ್ಸಿಯಮ್ ಕಾರ್ಬೋನೇಟ್ %	6.0 ಕ್ಕಿಂತ ಕಡಿಮೆ	8.3 %
7 ಕಬ್ಬಿಣ (Fe) ppm	4.6 ಕ್ಕಿಂತ ಹೆಚ್ಚು	4.23 ppm
8 ಮ್ಯಾಂಗನಿಸ್ (mn) ppm	2.0 ಕ್ಕಿಂತ ಹೆಚ್ಚು	225.25 "
9 ಜಿಂಕ್ (Zn) ppm	0.6 ಕ್ಕಿಂತ ಹೆಚ್ಚು	3.87 "
10 ತಾಮ್ರ (Cu) ppm	0.2 ಕ್ಕಿಂತ ಹೆಚ್ಚು	8.99 "
11 ಸಾರಜನಕ (N)		407.7 kg/h
12 ಇತರೆ NA		355 kg/h
13		
14		
15		

ಸಲಹೆ



ಮಣ್ಣು ಪರಿಶೋಧಕ

Dr. M. C. Hosur  
M.Sc.Ph.D.  
Chief Administrator  
Rait Mitra Krishi Abhivruddhi Sangha (R)  
SANKESHVAR Tal. Mukkeri Dist. Belagavi

## Conclusion of Soil Analysis

In soil analysis, there are six processes which are soil sampling technique, determination of texture of soil, determination of water content, determination of organic matter, determination of air content and soil pH. Three type of soil samples are used in soil analysis, which are housing area, pond and farm. The soil are extracted successfully. In the determination of texture of soil, it can be concluded that soil sample from housing area has the highest percentage of stone component whereas soil sample from farm has the highest percentage of sand component. Soil sample from pond has the highest percentage of slit and clay. Meanwhile, in the experiment of determination of water content, soil sample in pond has the highest water content with 22.88 % of water in the soil sample, followed by housing area soil sample (14.77%) and lastly, farm with 14.67% of water content which is very close to the reading of housing area soil sample. In the determination of organic matter, housing area soil has the highest percentage of organic matter (8.90%), followed by pond soil sample with 7.12% of organic matter and finally, farm with 4.02% of organic matter in soil. Besides that, in the determination of air content, farm soil sample has the highest air content which is 48.98% in the soil sample. The second place is housing area soil sample with 39.13% air content. Lastly, pond soil sample has the least air content which is 2.71%. In the determination of pH level of soil sample, soil sample of farm and pond is acidic, which is pH 5 and 6 respectively. However, housing area soil is slightly alkaline which is pH 8

## ACKNOWLEDGEMENT

We the B.Sc. VI Semester student of chemistry, wish to thank our teacher Prof. A.S. Jagnure, Head of the department of chemistry, Prof. G.B. Kumbhar, Prof S. B. Solbannavar, , Prof. Prashant Narawade and Prof. Priyanka Soudi Prof. Padamini Shedabal, Prof. Shrishail Narawade who has encouraged and worked with us in completing this project.

Our teachers of chemistry Department were well co-operative and gave us more relevant information about "SOIL ANALYSIS". And special thanks to Prof. Dr. M. C. Hosur Chief Administrator and Scientific Advisor, Rait Mitra Krishi Abhivrudhi Sangh , Sankeshwar. Who guided us to know more about the analysis and to conduct the practicals. Lastly it was a very unforgettable and highly memorable study tour to all of us.





K. L. E. Society's

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**B.Sc. VI** Semester has successfully completed a certificate course in **Soil Analysis**

& Submitted the report during the academic year **2018-19**

  
Head  
Department of Chemistry.

  
Convenor





  
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**IQAC INITIATIVE**  
**Department of Chemistry**  
**REPORT ON Certificate Course on Soil analysis**

Name of the Department	Chemistry
Name of the Event Organized	Guest Lecture
Title of the Event	Soil analysis
Date of the Event Organized	05/03/2019
Name of the Convener	Shri. P. T. Narawade Smt. R. R. Mane
Participants	144
No. of Participants	Total 144 Teachers 12 Students 132
Name of the Expert with Designation	Dr. M. C. Hosur, Chief Administrator
Contact Number & Address of the Expert	Rait Mitra Abhivruddhi Sangh, (R) at Sankeshwar
Objectives of the Event	1. To understand the different types of soil. 2. To make students to understand the different parameters of soil analysis.
Outcome of the Event	It enhances the skill of soil analysis and can become self-entrepreneurship.
Photo Gallery	 

**Co-ordinator IQAC**  
**K. L. E. Society's**  
**G. I. Bagewadi College, Nipani.**

**Head**  
**Department of Chemistry**  
**K.L.E's G. I. B. College, Nipani.**

**Principal**  
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Date: 08/03/2019

**IOAC INITIATIVE**  
**Department of Chemistry**  
**Report**

**Certificate Course on Soil Analysis for CBZ students - 2018-19**

Now a days it is inevitable for us to move along with the advancement of technologies in various domains and learning beyond curriculum is the necessary thing for learners. To achieve these expectations Department of Chemistry has conducted 3 months Certificate course in Soil Analysis for the Academic year 2018-19.

A total 42 B.Sc. VI<sup>th</sup> semester students have taken active participation for 'Soil Analysis' course. This course consisting of 16 hours theory and 16 hours practicals and classes were conducted from 06/01/2019 to 07/03/2019 scheduled by experienced faculty of our department of chemistry. Dr. M. C. Hosur delivered a lecture on soil analysis and elaborated the improvement of soil fertility on 03/03/2019. For the practical training on Soil Analysis the students were divided into batches and sent to 'Rait Mitra Krishi Abhivruddhi Sangh', (R) Sankeshwar. During practicals students measure the factors like acidity, alkalinity, turbidity, suspended particles, pH & conductivity etc of soil. While doing soil analysis students were handled instruments like absorption spectrophotometer, pH meter, conductometer, Kjeldahl's apparatus and flame photometer. After the completion of the Certificate Course a written test of 20 marks was conducted & Certificates were given to the students. 132 students and 12 staff members were present at the function.

  
**Co-ordinator IOAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
**PRINCIPAL**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.





Speech by Dr. A. S. Jagannure and Dr. M. B. Kothale.



Visit at 'Rait Mitra Krishi Abhivruddhi Sangh', (R) Sankeshwar.

  
Convener

  
HOD  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
K.L.E. Society's  
G. I. Bagowadi College, Nipani.





ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾಣಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲಾ : ಬೆಳಗಾವಿ

KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

Ref : No.

Date : 10-01-2019

## NOTICE

### Department of Hindi

Our Department is conducting a Certificate course in Translation in this semester.

The degree students who are willing to join are informed to meet Dr.M.D.Gurav on or before 15<sup>th</sup> January, 2019.

The details are given below.

1. Course: Certificate course in Translation (Kannada/English to Hindi)
2. Duration: Three months

H.O.D.

Dept. of Hindi

Head

Department of Hindi  
K.L.E's G. I. B. College, Nipani.

Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



**K.L.E.Society's G.I. Bagewadi Arts, Science and Commerce College.  
Nipani**

**Department of Hindi**

**Certificate course in Translation**

**Admission Form**



- 1. Name of the Student : Pooja Anil Shreyakar
- 2. Class and Gender : B.com II sem ~~He~~ Female
- 3. Category : Hindu Dhora
- 4. Address for correspondence : Jatrat ves, Phoragalli Nipani  
Mob No: 9535817704

**Declaration**

I Pooja Anil Shreyakar of Class B.com II<sup>sem</sup> Roll no 35

Hereby declare that if I am admitted to this course, I shall abide by all the rules and I am aware that I am eligible for any disciplinary action which might include expulsion from the course for non compliance with the rules that are in force or any other directive issued by the Dept.

Place : Nipani

Date : 15-1-2019

  
Signature of the Candidate .





Pg. 1000

**K.L.E.Society's G.I. Bagewadi Arts, Science and Commerce College.  
Nipani**

**Department of Hindi**

**Certificate course in Translation**

**Admission Form**



1. Name of the Student : Saniya Javid. Jamadar
2. Class and Gender : B.com II<sup>nd</sup> Sem Female
3. Category : Muslim
4. Address for correspondence : Ravival peth near Bhopale galli  
Mobile No :- 9483182887

**Declaration**

I Saniya Javid Jamadar of Class B.com II<sup>sem</sup> Roll no 61

Hereby declare that if I am admitted to this course, I shall abide by all the rules and I am aware that I am eligible for any disciplinary action which might include expulsion from the course for non compliance with the rules that are in force or any other directive issued by the Dept.

Place : Nipani  
Date : 15/01/19

Saniya Javid  
Signature of the Candidate



# Department of Hindi

Certificate Course in Translation 2018-19

Sl. No.	Roll No	Name of the Student	Class	Marks
1	44	Praveen Sadalage	B .Com II Sem	
2	31	Padmaja .B.Honshetti	B.Com II Sem	
3	20	Asmita.D.Magdum	B.Com II Sem	
4	35	Pooja .A. Shreyakar	B.Com II Sem	
5	54	Roopali Chopade	B.Com II Sem	
6	56	Rutuja.S,Walake	B.Com II Sem	
7	61	Saniya . J. Jamadar	B.Com II Sem	
8	62	Samiya .S. Sarkhwas	B.Com II Sem	
9	65	Shravana .S.Honashetti	B.Com II Sem	
10	71	Soujanya.P.Patil	B.Com II Sem	
11	72	Soumya.S.Ghosarwade	B.Com II Sem	
12	76	Varsha .B.Kamble	B.Com II Sem	
13	78	Veenshri.G.Gurav	B.Com II Sem	
14	79	Vidya.K.Kesti	B.Com II Sem	
15	89	Aishwarya.G.Gobade	B.Com II Sem	
16	50	Revan.Chogule	B.Com II Sem	
17	05	Arihant.Havale	B.Com II Sem	
18	24	Mahesh.Khot	B.Com II Sem	
19	82	Vinayak.Ingale	B.Com II Sem	
20	20	Kuntinath.Hugge	B.Com II Sem	
21	70	Shuham.S.Pachandi	B.Com II Sem	
22	13	Dadu.R.Khot	B.Com II Sem	
23	27	Prarthana.Paramaje	B.A.IV Sem	
24	04	Bahubali.Anagale	B.A.IV Sem	
25	24	Pallavi.Chougale	B.A.IV Sem	

  
HOD

Department of Hindi

Head

Department of Hindi  
K.L.E's G. I. B. College

  
Co-ordinator IOAC

K. L. E. Society's

G. I. Bagewadi College, Nipani.



Principal

PRINCIPAL

K.L.E. Society's

G. I. Bagewadi College, Nipani.



certificate Code - BAHNC - 2018-19  
1 16-17  
2 11-2

K.L.E. Society  
G.I. Bagewadi College of Arts, Science and Commerce and P.G. College  
NIPANI-591 237

DEPARTMENT OF HINDI.

CERTIFICATE COURSE IN TRANSLATION

(ENGLISH - KANNADA - HINDI)

Duration of the Course - 36 Hours in 3 months SEMESTER.

Eligibility : Arts, Science and Commerce Degree Students.  
Course Fees : Rs. 100/-

**COURSE CONTENT :**

- UNIT I : 1.1 अनुवाद की परिभाषा ।  
1.2 अनुवाद का प्रयोजन ।  
1.3 अनुवाद की सीमाएँ ।
- UNIT 2 : 2.1 अनुवादक के गुण ।  
2.2 अनुवाद के भेद ।  
साहित्यिक विधा के आधार पर ।  
2.3 अनुवाद के प्रकार ।  
2.4 अनुवाद की प्रकृती ।  
2.5 भाषिक आधार पर ।
- UNIT 3 : 3.1 कन्नड से हिन्दी अनुवाद की समस्याएँ एवं समाधान ।  
3.2 अंग्रेजी से हिन्दी अनुवाद की समस्याएँ एवं समाधान ।  
3.3 हिन्दी से कन्नड एवं हिन्दी से अंग्रेजी अनुवाद की समस्याएँ एवं समाधान ।
- UNIT 4 : 4.1 साहित्यिक विधा के आधारपर अनुवाद ।  
4.2 गद्यानुवाद, पद्यानुवाद ।  
4.3 बँकींग अनुवाद ।  
4.4 वैज्ञानिक अनुवाद ।  
4.5 साहित्येतर अनुवाद ।
- UNIT 5 : 5.1 अनुवाद के क्षेत्र में अब तक की गतिविधीयों का पुनर्शीलन ।



*M. B. K.*  
PRINCIPAL  
G.I. Bagewadi Arts, Science  
& Commerce College, Nipani



ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾನಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲಾ: ಬೆಳಗಾವಿ  
KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

Date : 10-01-2019

**Department of Hindi**  
**Self Financed Certificate Course in Translation**  
**Kannada, English to Hindi: 2018-19**

Class	Duration	Total Hours	Male	Female	Total	Fee
Under graduates	3 Months	36	08	17	25	Rs.100

  
Dr. Smt. M.D. Gurav

H O D      **Head**  
Department of Hindi  
K.L.E's G. I. B. College, Nipani.

  
Dr. M.B. Kothale

Principal  
**PRINCIPAL**  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.

  
Principal  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.





ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
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KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

Ref : No.

Date : 15-01-2019

## Department of Hindi

Self financed Certificate course in Translation 2018-19

(Kannada, English to Hindi)

Time table

Time	9.15	10.30	11.30	12.30	2	3	4
Monday							
Tuesday							
Wednesday	Cert course						
Thursday	Cert course						
Friday							
Saturday							Cert course



HOD

Dept. of Hindi  
Head

Department of Hindi  
K.L.E's G. I. B. College, Nipani.





Principal

PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani

  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



# Department of Hindi

Certificate Course in Translation 2018-19

Sl. No.	Roll No	Name of the Student	Class	Marks
1	44	Praveen Sadalage	B .Com II Sem	48
2	31	Padmaja .B.Honshetti	B.Com II Sem	47
3	20	Asmita.D.Magdum	B.Com II Sem	48
4	35	Pooja .A. Shreyakar	B.Com II Sem	50
5	54	Roopali Chopade	B.Com II Sem	48
6	56	Rutuja.S,Walake	B.Com II Sem	50
7	61	Saniya . J. Jamadar	B.Com II Sem	50
8	62	Samiya .S. Sarkhwas	B.Com II Sem	48
9	65	Shravana .S.Honashetti	B.Com II Sem	50
10	71	Soujanya.P.Patil	B.Com II Sem	50
11	72	Soumya.S.Ghosarwade	B.Com II Sem	50
12	76	Varsha .B.Kamble	B.Com II Sem	49
13	78	Veenshri.G.Gurav	B.Com II Sem	50
14	79	Vidya.K.Kesti	B.Com II Sem	50
15	89	Aishwarya.G.Gobade	B.Com II Sem	48
16	50	Revan.Chogule	B.Com II Sem	50
17	05	Arihant.Havale	B.Com II Sem	48
18	24	Mahesh.Khot	B.Com II Sem	49
19	82	Vinayak.Ingale	B.Com II Sem	50
20	20	Kuntinath.Hugge	B.Com II Sem	50
21	70	Shuham.S.Pachandi	B.Com II Sem	48
22	13	Dadu.R.Khot	B.Com II Sem	48
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HOD

Department of Hindi

Head

Department of Hindi  
K.L.E's G. I. B. College



  
Principal

K.L.E. Society's  
G. I. Degwadli College, Nipani.







(Re-accredited at 'A' Level by NAAC with CGPA 3.35)

College with Potential for Excellence

## EXAMINATION

Class : B.com 1<sup>st</sup> year

Subject : Hindi

Roll No. : 56

Date :

Marks Scored :

50

Test :

Signature of Valuer

Signature of the Invigilator with date

1) अनुवाद आज के युग की एक इ) अनिवार्य आवश्यकता है।

2) किसी एक भाषा का विषय दूसरी भाषा में अ) रूपान्तर कर्ना अनुवाद है।

3) भाषाविद मायडा के अनुसार अनुवाद के इ) तीन स्वरूप हैं।

4) अनुवाद की पहली आवश्यकता इ) उचित शब्द भंडार है।

5) संस्कृत में आ) पुनः कथन के रूप में ही अनुवाद को परिभाषित किया है।

6) वातचित्त पत्राचार और धर्म में इ) अनुवाद का बहुत महत्व है।

7) शिक्षा का क्षेत्र इ) अनुवाद के बिना आगे नहीं बढ़ता है।

8) अ) रेडियो, दूरदर्शन, समाचार पत्र आदि अंचार माध्यमों में अनुवाद अनिवार्य हो गया है।



9) आंतरराष्ट्रीय स्तर पर विज्ञान तथा तकनीकी क्षेत्र में अनुवाद आवश्यक हो गया है।

10) अनुवादके लिए इसाद्वय महत्वपूर्ण है।

प्रश्न 11)

15) Order - आदेश क्रम

16) Officer - कार्यकर्ता / आफसर

17) Employee - कर्मचारी

18) Application - आवेदन

19) Donation - दान

प्रश्न 12)

11) संस्कृत में अनुवाद शब्द का प्रयोग बहुत प्राचीन होते हुए भी हिन्दी में इसका प्रयोग बहुत बाद में हुआ। हिन्दी में आज अनुवाद शब्द का अर्थ उपर्युक्त अर्थों से भिन्न होकर केवल मूल भाषा के आवतरण में निहित अर्थ या संदेश की रक्षा करने हुए दूसरी भाषा में प्रतिस्थापन तक सीमित हो गया है। अंग्रेजी विज्ञान मीनियर विनियम से सर्वप्रथम अंग्रेजी में "translocation" शब्द का प्रयोग किया था।

अनुवाद कर्म में हम एक भाषा में अंक विचारों को दूसरी भाषा में व्यक्त करते हैं। अनुवाद कर्म के अनेक विभिन्न भेदों को धारण प्रतिपदित अलग-अलग शब्दों में परिभाषित किए हैं। अनुवाद के पूर्ण स्वरूप को समझने



12)

प्रकृति के आधार पर अनुवाद के प्रकार  
अनुवाद के दौरान एक भाषा के कथ्य को  
दूसरी भाषा में अंतरित किया जाता है। अनुवाद  
में यह अंतरण जहाँ तक संभाव हो सके मूल वाक्य  
और उसकी अभिव्यक्त शैली का निष्ठापूर्वक अनुगम  
न करके भी किया जा सकता है। और उसमें कुछ  
छुट लेते भी लेकिन यह छुट लक्ष्य भाषा की  
सुविधा अनुवाद के उद्देश और पाठक मार्ग की  
योग्यता को ध्यान में रखते ही लेती है।

प्रकार :-

- 1) शब्दानुवाद
- 2) भावानुवाद
- 3) छायानुवाद
- 4) सारानुवाद
- 5) अंश अनुवाद
- 6) मशीनी अनुवाद

प्रश्न IV

यातायात सौलभ्य एक देश के सफल वाणिज्य  
अभिवृद्धि के आवश्यक अंग हो गये हैं। सब तरह  
के संपर्क में रेल अत्यंत महत्व पूर्ण हो गया है।  
भारत में रेल के सर्व्य में उपयोग की जाती है।

मनुष्य एक सामाजिक प्राणी है। मनुष्य-मनुष्य  
संबंध स्थापित करना शासन पर जाना नवीनतम की  
खोज करना आदि की प्रवृत्ति उसमें सर्व्व से  
ही रही है। उसके इन्हीं इच्छाओं को विश्व में  
असंभव लगाने वाले अनेक कार्य को संभव कर  
दिया है। यातायात की नवीनतम स्थापना  
की आवश्यक से कम नहीं है। जिनके माध्यम  
में आज मनुष्य महीने तथा वर्ष में तय की  
जाने वाली दूर को कुछ ही घंटों या दिनों में  
पुरा कर सकता है।



12)

प्रकृति के आधार पर अनुवाद के प्रकार  
अनुवाद के दौरान एक भाषा के कथ्य को दूसरी भाषा में अंतरित किया जाता है। अनुवाद में यह अंतरण जहाँ तक संभाव हो सके मूल वाक्य और उसकी अभिव्यक्त शैली का निष्ठापूर्वक अनुगमन करके भी किया जा सकता है। और उसे कुछ छुट लेते भी लेकिन यह छुट लक्ष्य भाषा की सुविधा अनुवाद के उद्देश्य और पाठक मार्ग की योग्यता को ध्यान में रखते ही लेती है।

प्रकार :-

- 1) शब्दानुवाद
- 2) भावानुवाद
- 3) छायानुवाद
- 4) सारानुवाद
- 5) आशु अनुवाद
- 6) मशीनी अनुवाद

प्रश्न IV

यातायात सौकर्य एक देश के सफल वाणिज्य अभिवृद्धि के आवश्यक अंग हो गये हैं। सब तरह के संपर्क में रेल अत्यंत महत्व पूर्ण हो गया है। भारत में रेल के सेव्य में उपयोग की जाती है।

मनुष्य एक सामाजिक प्राणी है। भए-नए संबंध स्थापित करना शासन पर जाना-निवर्तन की खोज करना आदि की प्रवृत्ति उसमें सर्वत्र से ही रही है। उसके इन्हीं इच्छाओं को विश्व में असंभव लगाने वाले अनेक कार्य को संभव कर दिखाया है। यातायात की निरन्तर निवर्तन साधन की आवश्यक से कम नहीं है। जिनके माध्यम से आज मनुष्य महीनों तथा वर्षों में तय की जाने वाली दूर को कुछ ही घंटों या दिनों में पुरा कर सकता है।



आदि काल में मनुष्य के पास यातायात के साधन नहीं थे। परंतु धीरे-धीरे सभ्यता के विकास के साथ उसके आगमन के कुछ आसान उपयोग की आवश्यकता महसूस हुई। उसकी इसी आवश्यकताओं के उसे आगमन के लिए पशुओं का उपयोग करना सिखाया।

कालांतर में विज्ञान के माध्यम से मनुष्य ने यथायथ के लिए अनुपम साधनों की खोज की जिसने आगमन को अप्रत्याशित रूप से सरल व सुगम बना दिया है। यातायात के आधुनिकतम साधनों ने विश्व की सीमाओं को आती सीमित कर दिया है। रेल गाड़ी, मोटर कार, बस, हवाई जहाज, कम समय में लंबी दूरी तय कर सकती हैं।

आप के इंजन के आविष्कार ने यातायात के क्षेत्र में एक क्रांती ला दी है। आज रेल गाड़ी के द्वारा हजारों लोग एक समय में ही एक स्थान से दूसरे स्थान की यात्रा कर सकते हैं। आप तथा डिजेल के इंजन के अतिरिक्त आज अनेक विद्युत चालित रेल गाड़ी हैं। जपान जैसे विकसित देश में ऐसे ही रेल गाड़ी उपयोग में हैं। उनके मानक 200 km प्रति घंटे से भी अधिक है।





# G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,

## NIPANI - 591 237.



(Re-accredited at 'A' Level by NAAC with CGPA 3.35)

College with Potential for Excellence

### EXAMINATION

Class : Bcom II

Subject : Hindi

Roll No. : 44

Date :

Marks Scored : 48  
~~50~~

Test : Answered to Hindi

Signature of Valuer

Signature of the Invigilator with date

1) श्री अनिवाप

2) श्री रुपानार

3) श्री शीन

4) श्री उचित शब्द भंडार

5) श्री पुनः कथन

6) श्री अनुवाद

7) श्री अनुवाद

8) श्री रेडियो, दूरदर्शन, समाचार पत्र

9) श्री आवश्यक

10) श्री साहित्य



11

15) order = क्रम

16) officer = अधिकारी

17) employee = कर्मचारी

18) Application = आवेदन

19) Donation = दान

प्रश्न 11

1) अनुवाद का परिभाषा  
 साधारणतः अनुवाद एक भाषा में व्यक्त विचार को दूसरी भाषा में व्यक्त करने हैं।  
 अनुवाद कार्य के मर्मज्ञ विभिन्न मनीषियों द्वारा प्रतिपादित अलग-अलग शब्दों में परिभाषा किया है। अनुवाद के पूर्ण स्वरूप को समझने के लिए यहाँ कुछ महत्वपूर्ण परिभाषाओं का उल्लेख जा रहा है।

अनुवाद :- एक अधिक विषय है। भारत जैसे बहुभाषी भाषी देश में अनुवाद का महत्व पृथीय काल से ही स्वीकृत है। आधुनिक युग में जैसे-जैसे स्थान और समय की रुचियाँ आम होती गई वैसे-वैसे द्वि-भाषिक की रुचियाँ और मात्रा में वृद्धि होती गई और मात्रा में बढ़ी है।



13) अनुवाद की अत्यंत कठिन शक्ति है।  
 खनाला किसी एक भाषा में सजेन कात  
 हैं। जबकि अनुवाद को एक ही समय  
 में दो भिन्न भाषा और परिवेश / वातावरण  
 को साधन होता है। परिवेश और  
 वातावरण पर बत देते हुए संयोजन  
 ने गौरव के अनुवाद के बहने का  
 पा " गौरव का किसी भी अनुवाद  
 में वह प्रभाव और चाल ही आ  
 सकती जो मूल में है। इसका मातृप  
 और शब्दों का जादु किसी भी  
 अन्य माध्यम में क्यों का त्यो का प्रस्तुत  
 करने का रहा है।

एक अनुवाद के लिए स्थानीय  
 संस्कृति और परिवेश का ज्ञान आवश्यक है।  
 कई साल पहले एक इतिहासकार वी।  
 कुंवा सिंह या शोध के सिलसिले में  
 भारत आए थे।

14

परिवहन सुविधाने सुविधाओं का रहे है  
 सबसे आवश्यक शर्त के लिए सफल व्याप  
 सापेक्ष विकास का एक देश, रेलवे को  
 सबसे अधिक महत्वपूर्ण है। सभी संसाधनों  
 मूल रूप से रेलवे का निर्माण बिना  
 गया भारत में सैन्य उद्देश्यों के लिए





KLE Society's

# G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI

Department of Hindi



Certificate Code - BAHNC-2018 -19

## Certificate

This is to Certify that Mr/Ms Soujanya P. Patil  
of B. Com II Sem has Completed "Certificate Course in  
Translation (English - Kannada to Hindi)" During The Year 2018 - 2019

  
Head of Department

  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



  
Principal



K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-  
591237

Accredited at 'A' level by NAAC with CGPA 3.35  
(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)  
Website: [www.kleibnnpn.edu.in](http://www.kleibnnpn.edu.in) E-mail: [kleibnnpn@yahoo.co.in](mailto:kleibnnpn@yahoo.co.in) Ph.: 08338-220116

DATE -23/4/2018

## DEPARTMENT OF HINDI REPORT ON CERTIFICATE COURSE

Department of Hindi have organized translation certificate course for the academic year 2017-18 . Which will help the students to develop their communication skill and language. To develop interest towards language. In this course students did translation from English/ Kannada to Hindi. Among B.A., B.Sc., B.Com. Students of our College 42 students were benifited. And this Certificate course classes conducted by Prof. Haseena Attar

  
CO-ORDINATOR  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
HOD  
Head  
Department of Hindi  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.





K.L.E. Society's  
**G.L. Bagewadi Arts, Science and Commerce College, Nipani-591237**

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Website: [www.klegibnnpn.org](http://www.klegibnnpn.org) E-mail: [klegibnnpn@yahoo.co.in](mailto:klegibnnpn@yahoo.co.in) Ph.: 08338-220116

Date: 26.12.2018

### Department of Commerce

#### NOTICE

The Department is going to commence certificate course in Business Correspondence for the academic year 2018-19. Interested students of B.Com IV Semester are hereby informed to enroll their names in the department on or before 1st January, 2019.

  
Convener

  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.







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## Department Of Commerce

### Enrollment form (2018-19)

To,

Head of the Department Commerce,

KLE's G.I. Bagewadi College, Nipani.

Application for the certificate course in Business Correspondance

#### PARTICULARS OF APPLICANT

1. Name : Jooli Havale
2. Class : B. Com IV<sup>th</sup> Sem
3. Address for Correspondence : A/P : Borgav.
4. Contact No. : 9538370052
5. E-Mail : —

Date: 28/12/2018

JHavale

Signature of the Applicant





K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

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## Department Of Commerce

### Enrollment form (2018-19)

To,

Head of the Department Commerce,

KLE's G.I. Bagewadi College, Nipani.

Application for the certificate course in Business Correspondance.

#### PARTICULARS OF APPLICANT

1. Name : Sivati Hokale
2. Class : B com IV semester
3. Address for Correspondence : A/P. Galataga
4. Contact No. : 8867997405
5. E-Mail : —

Date: 21/12/2018

Signature of the Applicant



**Certificate Course In Business Correspondence**  
**STUDENT LIST (2018-19)**

Sr.No	R.No	Student Name	Class
1	1	Aishwarya Vhanawade	B.Com IV Semester
2	8	Amruta Kulkarni	"
3	9	Ankita Koot	"
4	12	Apoorva Kamate	"
5	15	Ashwini Nasalapure	"
6	23	Jooli Havale	"
7	28	Kirti Parit	"
8	29	Kirti Patil	"
9	30	Kunjal Totagar	"
10	31	Lakshmi Chanarayanagoudar	"
11	37	Netra Hegade	"
12	43	Padmini Khot	"
13	45	Pooja Hanagandi	"
14	50	Pranita Bharamal	"
15	52	Prarthana Rodd	"
16	57	Rohini Kokane	"
17	58	Rohini Mirje	"
18	67	Samruddhi Hukkeri	"
19	70	Sarojini Bilikudre	"
20	71	Satish Chavan	"
21	73	Seema Hoovannavar	"
22	79	Snehal Chougule	"
23	81	Snehal Nimbalkar	"
24	87	Sudha Kamgouda	"
25	88	Sukanya Malloli	"
26	89	Suraksha Aswale	"
27	90	Sushma Gourai	"
28	92	Swati Patil	"
29	93	Swati Hokale	"
30	97	Veena Alatage	"

*For*  
Head of the Department  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

*Head*  
Co-ordinator IQAC  
K. L. E. Societ.  
G. I. Bagewadi College, Nipani.

*Principal*  
Principal  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



**KLE's**  
**G.I. Bagewadi Arts, Science & Commerce College, Nipani**  
**Department of Commerce**

**Certificate Course In Business Correspondence**

**Course Objectives**

**Introduction**

The ability to communicate effectively plays a major role in achieving career success. Technological advancements have increased the need for skilled communicators, and employers state that the application of acceptable communication skills is essential for a workforce to survive in a competitive, global environment. This course is designed to provide the student with those skills.

**Course Objectives**

1. Enable the student to recognize the relationship of effective communications skills to success in academic, work and social environments.
2. Develop both written and oral communication skills to produce clear, complete, accurate messages.
3. Understand message strategies and formats appropriate for professional communication situations.
4. Develop and apply critical thinking skills when determining solutions for communication-related problems.



  
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**G.I.Bagewadi Arts Science & Commerce College, Nipani**  
**Department of Commerce**

**CERTIFICATE COURSE**  
**IN**  
**BUSINESS CORRESPONDENCE**

**Course Syllabus**

**Unit I**

**Introduction :**

**5 Hours**

Meaning & definition, need for business correspondence, functions of business correspondence.

**Unit II**

**Business Letters:**

**5 Hours**

Meaning & definition, essentials of a good business letter, physical properties of a good business letter, planning a business letter.

**Unit III**

**Structure & Layout of Business letter:**

**10 Hours**

Heading, Date, Reference, Subject, Inside address, Salutation, Body of Letter, Complimentary close, Signature, Enclosures, Post Script, Copy circulation. Layout – Block form, Semi block form, Indented form, Hanging indented form. Examples of business letters.

**Unit IV**

**Business Email Writing:**

**10 Hours**

Email or letter, General etiquette, Structure, Templates, Formatting, Greeting and Sign Off, Example Emails, Use the Correct Tone, Golden Rules of Email Writing.



  
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G.I. Bagewadi Arts, Science & Commerce College, Nipani  
Department of Commerce

**Certificate Course  
In  
Business Correspondence**

STAFF LIST

1. Dr. B.M.Hiremath.
2. Dr. C.V.Koppad.
3. Prof. S.A.Deshpande.

*For*  
*[Signature]*  
Head of Department  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

*[Signature]*  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

*[Signature]*  
Principal  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



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Department of Commerce

**Certificate Course In Business Correspondence**

**TIME - TABLE**

Day	Time	Faculty
Monday	3.00 - 4.00 pm	Prof. B.M.Hiremath
Tuesday	3.00 - 4.00 pm	Prof. C.V.Koppad
Wednesday	3.00 - 4.00 pm	Prof. S.A.Deshpande
Thursday	4.00 - 5.00 pm	Prof. C.V.Koppad / Prof. S.A.Deshpande

**Duration: Theory 30 Hours & Practical 10 Hours.**

**Work Load:**

1. Prof. B.M.Hiremath : Module - I ( 5 hours)
2. Prof. C.V.Koppad : Module - II & III ( 12 hours )
3. Prof. S.A.Deshpande : Module - III & IV ( 13 hours )



  
**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
**Principal**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

**KLE's**  
**G.I.Bagewadi Arts, Science & Commerce College, Nipani**  
**Department of Commerce**  
**Certificate Course In Business Correspondence**

**RESULTS SHEET**

<b>S.No</b>	<b>Roll No</b>	<b>Name of the student</b>	<b>Marks obtained ( Out of 50)</b>
1	1	Aishwarya Vhanawade	Ab
2	8	Amruta Kulkarni	Ab
3	9	Ankita Koot	42
4	12	Apoorva Kamate	Ab
5	15	Ashwini Nasalapure	48
6	23	Jooli Havale	47
7	28	Kirti Parit	Ab
8	29	Kirti Patil	Ab
9	30	Kunjali Totagar	43
10	31	Lakshmi Chanarayanagoudar	45
11	37	Netra Hegade	Ab
12	43	Padmini Khot	Ab
13	45	Pooja Hanagandi	48
14	50	Pranita Bharamal	Ab
15	52	Prarthana Rodd	Ab
16	57	Rohini Kokane	Ab
17	58	Rohini Mirje	Ab
18	67	Samruddhi Hukkeri	40
19	70	Sarojini Bilikudre	Ab
20	71	Satish Chavan	Ab
21	73	Seema Hoovannavar	Ab
22	79	Snehal Chougule	Ab
23	81	Snehal Nimbalkar	Ab
24	87	Sudha Kamgouda	Ab
25	88	Sukanya Malloli	44
26	89	Suraksha Aswale	47
27	90	Sushma Gourai	Ab
28	92	Swati Patil	45
29	93	Swati Hokale	40
30	97	Veena Alatage	47



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**KLE'S  
G.I.BAGEWADI COLLEGE NIPANI  
BUSINESS CORRESPONDENCE**

**Duration : 2 Hours**

**Marks : 50**

Answer the following questions

1. Write a complaint letter to the Municipal commissioner for the irregular supply of water to your town. 20 marks
2. As a commerce post graduate passed in distinction, prepare Resume for the post of Accounts Manager in a multinational company. 10 marks
3. As a HR manager of a company draft a report on absenteeism among the employees. 20 marks

**KLE'S  
G.I.BAGEWADI COLLEGE NIPANI  
BUSINESS CORRESPONDENCE**

**Duration : 2 Hours**

**Marks : 50**

Answer the following questions

1. Write a complaint letter to the Municipal commissioner for the irregular supply of water to your town. 20 marks
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**KLE'S  
G.I.BAGEWADI COLLEGE NIPANI  
BUSINESS CORRESPONDENCE**

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**KLE'S  
G.I.BAGEWADI COLLEGE NIPANI  
BUSINESS CORRESPONDENCE**

**Duration : 2 Hours**

**Marks : 50**

Answer the following questions

1. Write a complaint letter to the Municipal commissioner for the irregular supply of water to your town. 20 marks
2. As a commerce post graduate passed in distinction, prepare Resume for the post of Accounts Manager in a multinational company. 10 marks
3. As a HR manager of a company draft a report on absenteeism among the employees. 20 marks



  
**PRINCIPAL**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



## EXAMINATION

Class : B.com IV<sup>th</sup> Semester Subject : Business Correspondence  
 Roll No. : 23 Date :  
 Marks Scored : 47/80 Test :

Signature of Valuer

Signature of the Invigilator with date

1 Complaint letter to the Munciple Commissioner for the Sanitation problems of our town: →

From,  
 Rajesh Mukta  
 Ramanager  
 Bangalore - 591216  
 2<sup>nd</sup> March 2019



To,  
 The Municipal Commissioner  
 Rayachure

Dear Sir,

Sub:- Sanitation problems of in our town

I am Rajesh Mukta. I am leaning in Ramanager Galli in Bangalore - 591216 and in our village the many problems are situated and in this the problems is below given and that Problem is solved in the many days in this the it is very dengerous problems in our village &



And in this the many problems:-

1) The Water facility is not satisfactory in our college village.

2) And the (Light) Current facility is also the problem of our Village.

3) In our Village the Not any funds are supplied.

4) And in any fund is coming the Govt is not agreed to give to the people.

5) In this the many ~~open~~ difficult problem is ~~of~~ coming the Village.

In this the above written the many problems are to be the Sanitation in our the Village and they very much danger problem.

please solve the problems it is a Request to the Govt. in the our Village.

Thanking you,

Yours faithfully  
(Rajesh)







\* In this the Many Recommendation

\* Recommendations:-

- 1) In the not any give the high Salary
- 2) And in the Employees are the not attend the any functions
- 3) In these Employees are not Satisfactory in the placement promotion.
- 4) In this Employees transfer One place to another place.

\* Terms & References:-

- 1) Employees are Many terms in the give the absenteeism in the company
- 2) And in this More than 2 day Not indemnity to the get the Absent the Salary was deducted.
- 3) In this Many Solved problems.

\* Activities:-

- 1) In these Improve the gross Salary
- 2) In these Improve the Many of the companies problem.

Thanking you.

Yours faithfully.

(Ram)

~~Ram~~



Date = Raibag.  
place - ~~02-03-16~~  
101-04-19.

90.

34

REALINCE.  
Karad.

Mob No. 9586254231.

www.realince@com

To,  
The HR Manager  
Karad  
591219.

Respected Sir,

Sub :- Report on absenteeism among the Employees  
Ref :- your requested letter date on 1-04-2019

In there the thanking the Companies the solve the Absenteeism Some of the employees.

I have got the problem Analysing problems. I have been conducted survey and got feedback of our survey the following are reasons of absenteeism of employees.

★ Reasons :-

- 1) Employees got health problem
- 2) In this employees got the less salary than what they have accepted in the Resons of there
- 3) Employee don't have facility problems :- like Canteen, parking, Water facility, Current facility etc.
- 4) The Employees does not have transport facility like bus, in the and many problems.





# 25 Resume for the post of Finance Manager in a multinational company:-

Name : Rajani S. Magdhum.

Address : Alp - Rayabhag, H. No 2410.  
Tq. Chikkodi. Dist:- Belagaum.  
pin code - 100234.

Mobile No:- 012 34567891

e-mail : Rajani@gmail.com.

\* Objectives:- I am eager to join a company after completion of my course, where I can maximize my management skill, quality assurance, program development, and training experience in the company and in the many skills in their management of the kinds of these the companies.

## \* Qualifications:-

- 1) In our exam get the post graduate the M.com is scored in 89% in the year 2011
- 2) In the degree B.com. the scored the 82% marks in the year 2009
- 3) In the puc scored the 85.39% in the year 2006
- 4) BSLC scored marks is 83.52% in the year 2004,





## EXAMINATION

Class : B Com IV<sup>th</sup> Sem

Subject : Business Correspondence

Roll No. : 15

Date : 15/04/2019

Marks Scored : 48/50

Test : -

Signature of Valuer

Signature of the Invigilator with date

1. Complaint letter to the Municipal Commissioner

1. From,  
 Riya Gupta  
 29, December 2015.  
 A/P : Gadag  
 591219.

To,  
 The Municipal Commissioner,  
 Gadag.

Dear Sir,

Sub: Sanitation problems in our town

I am Riya Gupta, living in the Gadag & Galli Pan Nagar. In our town we have many problems. There are the Road, Light, Water etc are we are facing the problems. Last few days we are suffering water problem that why I am writing.

The people are suffering for water and the exmirations are coming so students are facing light or Electricity problem.

I request you to please supply the electricity and water to our town. Construct the roads to our town.

I hope that you will fulfill that our needs. And supply all these things which have demanded.

Thank you

Yours faithfully,  
(Riya G)

2) Resume part of finance manager in multinational company.

Name : Subana Kundra  
Address : A/P : Dharewad,  
Tal : Rani Benuur  
Pin : 591209

Mob : 9530834726  
e-mail : www.subana@gmail.com

Educational Quality:

- \* I have got 88% in 89% marks with distinction.
- \* I have scored in PUC with marks in 83%.
- \* In B.com degree I will score 85%.

Technical :

Completed MICIT from MKCI Karnataka.



### Achievements:

I will get gold medal in the degree In the part Graduate in the of Gold medal.

### Hobbies:

I know many language. Learning more language is the my (the my) hobby. Singing and also my one of the the hobby. Reading books also one of my hobbies.

### Other Activity:

I know Basic computer knowledge. I know knowledge of the C++, C, & C++ I have get certificate in games. & participating the games and get 1st Rank.

3)

INFOSYS  
Mumbai.

mob: 9538370081

www.infosys.com

To,

The HR Manager,  
Mumbai.



Respected Sir,

Sub: Report on absenteeism of employees

Ref: Your requested letter dated 31.3.16.

Thanking you for assisting me to in your company to solve the problem of absenteeism of employees.



analysing your problems I have  
been conducting survey and get  
feedback on our survey. The following  
are the reasons of absenteeism of the  
employees

1. The employees get the health problems  
due to the air pollution nature  
in your work working place
2. The employees get less salary than  
the what they have expected
3. The employees don't have the facilities  
like canteen, parking etc
4. The employees don't have transport  
facility like bus.

These are the many reasons for the  
employees regularly not coming to  
the company.

After analysing all these problems  
I have got many solutions of these  
problems. These are followings are  
solutions

1. Give the facility to the canteen facility  
to the employees. Good food to  
the employees
  2. Make parking facility in your quarters  
for standing of bikes etc.
  3. Give the employees for the good  
nature in your working place
- I hope you should follow the  
what I give solution

Thank you

Yours faithfully  
(R)

(Ran)

Date: 25/3/16

Name: G. S. Rao





K.L.E. Society's

# G. I. Bagewadi Arts, Science & Commerce College, Nipani

College with Potential for Excellence

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

*Department of Commerce*

*Certificate*

This is to certify that Mr. / Ms. Tooli Havale  
of B. Com IV sem has successfully completed Certificate Course  
in Business Correspondence during the year 2018-2019 & obtained Grade \_\_\_\_\_.

*For*

Head of the Department



*P. Naras*

Principal





K.L.E. Society's  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: [www.klegibnpn.org](http://www.klegibnpn.org) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

Department of Commerce  
**Certificate Course on Business Correspondence**

**Report (2018-19)**

The ability to communicate effectively plays a major role in achieving career success. Technological advancements have increased the need for skilled communicators, and employers state that the application of acceptable communication skills is essential for a workforce to survive in a competitive, global environment. To address and realize above needs Department of Commerce has formulated Certificate Course in "Business Correspondence" for the academic year 2018-19. Thirty students have actively enrolled for the course. The course consists of 30 hours theory and 10 hours of practical. Classes were conducted from 1<sup>st</sup> January 2019 to 21<sup>st</sup> March 2019. After the completion of the course written test was held for 50 marks and certificates were issued to the students

  
Convener

  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





**K.L.E.Society**  
**G.I.BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,**  
**Dist. Belgaum**

01/01/2019

## DEPARTMENT OF ZOOLOGY

### NOTICE

The department of zoology has decided to conduct a certificate course in **VERMITECH** for three months from January 2019 to March 2019 for B.Sc. III year CBZ students.

Duration of course is weekly 2 hrs theory class and 1 (2hrs) practical.

Students of B.Sc.III are hereby informed to enroll their names to HOD on or before 9th January 2019 with minimum registration fee of Rs. 200/-. The classes will start on 12th January 2019 according to the time table.

*Faint handwritten notes in the bottom left corner.*

*Handwritten signature of HOD*

**HOD**  
Head  
Department of Zoology  
KLE's G. I. B. College, Nipani



*Handwritten signature of Principal*

**PRINCIPAL**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



K.L.E. Society's

**G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237**

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

## DEPARTMENT OF ZOOLOGY

Application form for admission to Certificate Course in VERMITECH for the year 2018-19.



To,  
HOD of Zoology  
K.L.E. Society's G.I. Bagewadi College, Nipani

### PARTICULARS OF APPLICANT

1. Full name of the applicant:

RACHANA SURESH PATIL

2. Class: Bec VI<sup>th</sup> semester

3. Category: SC

4. Gender: FEMALE

5. Address for correspondence

D/D SURESH PATIL, #3082, AMBEDKAR ROAD,  
DOMBAR GAUT, SANKESHWAR TALU HUKKERI  
DEST- BELGUM.

Contact No.: 8217422202

6. E-mail ID: www.ruchupatil99@gmail.com.



*Rachana*  
Signature of Applicant

Website: [www.klegibcollege.com](http://www.klegibcollege.com)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph: 08338-220116, 220416





K.L.E. Society's

**G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237**

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

## DEPARTMENT OF ZOOLOGY

Application form for admission to Certificate Course in VERMITECH for the year 2018-19.



To,  
HOD of Zoology  
K.L.E. Society's G.I. Bagewadi College, Nipani

### PARTICULARS OF APPLICANT

1. Full name of the applicant:  
DHANASHRI PARASHARAM CHALAKE
2. Class: B.Sc VI<sup>th</sup>
3. Category: Hindu Maratha (ITB)
4. Gender: Female
5. Address for correspondence  
Beegreshwar Nagar, Sankeshwar.  
Tal - Hukkeri Dist - Belgaum, Karnataka.  
Pin code - 591313
- Contact No.: 9242372287
6. E-mail ID: ghanashrichalake93@gmail.com



Chalake  
Signature of Applicant

Website: [www.klegibcollege.com](http://www.klegibcollege.com)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph: 08338-220116, 220416

**K.L. E. Society's**

**G.I .BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,  
Dist. Belgaum**

**DEPARTMENT OF ZOOLOGY**

**List of students for Vermitech certificate course(2018-2019)**

SL. No.	NAME	
1	Abhishek chougule	
2	Amit Ammanagi	
3	Arati Gore	
4	Ashrafali Badiger	
5	Chaitali Hegade	
6	Chaitra Hasure	
7	Pranali Chavan	
8	Devyani Khot	
9	Dhanashri Hasure	
10	Dhanashri Chalake	
11	Dhanashri Patil	
12	Divya Chandrakude	
13	Gouravkumar Chougule	
14	Jayashri Balikai	
15	Komal Kadam	
16	Madhuri Shelke	
17	Malagouda Patil	
18	Manoj Kumbar	
19	Narendra Patil	
20	Nutan Kurane	
21	Nutan shettimani	
22	Omkar Magadum	
23	Pallavi Sangane	
24	Pooja Ghorapade	
25	Puja Karekar	
26	Rachana Patil	

BSc III Year



27	Sangram Sanadi	
28	Santosh Bilage	
29	Seema Lagamannavar	
30	Sharad Banne	
31	Sheetal Magadum	
32	Shivtej chougale	
33	Shweta Sapagale	
34	Sneha Kamble	
35	Soumya Patil	
36	Sunita Patil	
37	Tejas Patil	
38	Vaishnavi Ajarekar	
39	Vaishnavi Ambale	
40	Yogesh Varute	
41	Pooja Reddy	
42	Digvijay Nigave	

*Faint handwritten text in purple ink, possibly a signature or date.*



*Handwritten signature in black ink above the text "HOD".*  
**HOD**

**Head**  
Department of Zoology  
K.L.E's G. I. B. College, Nipani

*Handwritten signature in green ink above the text "PRINCIPAL".*  
**PRINCIPAL**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

## **K.L. E. Society's**

**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,  
Dist. Belgaum**

---

### **DEPARTMENT OF ZOOLOGY**

#### **Certificate course in Vermitech (2018-2019)**

**1. Objective-** This course aims to harvest the potential skill in the students who can complete the certificate course along with regular study.

#### **2. Course duration-3 months-January to March**

- Two theory class/Week
- One practical/Week
- Target-Any degree students
- Intake-35 students

#### **3. Budget-**

##### **Non recurring expenses-**

Setting up demo plant-

##### **Recurring expenses-**

- Maintenance of demo plant
- Honararium to staff
- Field visit

#### **4. Income**

- Course fees/student
- Expected income-
- Sale of the vermicompost



## 5. Justification

The justification is expected to increase in the coming years.

## 6. About Vermicompost

The excreta of earthworm are capable of improving soil health and nutrient supply. It is a process by which all type of wastes-Farm,kitchen,Market,Biowastes, and livestock etc. These wastes converts while passing through the worm gut to nutrient rich vermicompost. Worms acts as biological agents to consume wastes to deposite excreta in the process called vermicompost.Species of earthworms are Eesenia fetida,Eudrillus eugeniae,etc .Temprature to keep active microbes and worms is 10<sup>0C</sup> -30<sup>0C</sup>

## 7. Scope

- Role in the nutrition of agricultural field has attracted researchers in decades.
- Waste management
- Earthworm excreta is nutritive organic fertilizer rich in humus,micrmicrobes,etc
- Both vermicompost & body fluid(Vermiwash) are as both growth promoter & protector for crop plant.
- The student trained in this technology sustain agriculture inputs.
- It can be practiced on commercial basis to produce desired quantity of vermicompost.

Dr. J. S. ...  
Conv. & Charge, ...



Head  
Department of Zoology  
K.L.E.'s G. I. B. College, Nipani

Principal  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



K.L.E Society's  
G.I.Bagewadi Arts, Science, Commerce Degree & P.G.College, Nipani 591237.  
District Belagavi, Karnataka.  
Re-Accredited at A level by NAAC with CGPA 3.35

## DEPARTMENT OF ZOOLOGY

### Syllabus for Vermitech

#### Theory

1. Introduction	01 hr
2. Types of Vermitech-Pit culture and Pot culture	05 hr
3. Types of earthworms and species of earthworms	04 hr
4. Vermicompost	02 hr
5. Vermiwash	02 hr
6. Uses of Vermiculture	02 hr
7. Role of Earthworms	03 hr

#### Practical

1. Construction & Maintenance of Demo plant	02 hr
2. Earthworm Species	02 hr
3. Pit Culture	01 hr
4. Pot Culture	01 hr



  
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G. I. Bagewadi College, Nipani.

## SYLLABUS:

### Theory:

1 hour X 20=20 hours

UNIT-I: 2 Hrs

General properties of the soil - structure of the soil - sand, clay, salt, types of soils -soil organisms.

UNIT-II: 5 Hrs

Soil biota - Earthworms -Ecological classification of earth worms as Epigeics - Introduction to earthworm biology - role of earthworms in soil - classification of earthworms based on ecological strategies - Burrowing activity of earthworms - Drilospheres -Microorganisms and their relationship with earthworms.

UNIT-III: 5 Hrs

Composing - anaerobic composing, aerobic composing, types of composing, vermicompost - earthworm species used in vermicompost production-endemic species, exotic species.

UNIT-IV: 8 Hrs

Vermicompost -setting up vermicompost unit - vermiculture - vermiwash - role of vermicompost in organic farming - its quality and advantages over chemical inputs. Earthworms in bioreclamation of soil. Problems in vermiculture units - remedial suggestions. Vermicomposting as a tool for solid waste management -a small scale industry and its economics.

### Practical:

10 X 2 Hrs = 20 Hrs

- |   |   |
|---|---|
| 1. General properties of the soil - structure of the soil - sand, clay, salt, types of soils -soil organisms. | 1 |
| 2. Introduction to earthworm, types of Earthworm.   | 1 |
| 3. Composting: Types  | 1 |
| 4. Vermicomposting. Set up of pit, specifications, and preparations   | 2 |
| 5. Vermiculture: selection of species, Introduction of earthworm and rearing techniques.                      | 2 |
| 6. Harvesting the Product.  | 1 |
| 7. Visit to demo Plant  | 1 |
| 8. Field Visit  | 1 |

Total 10 Practicals

HOD  
Department of Zoology  
G. I. Bagewadi NIPANI

Theory - 20 hrs

pra - 20 hrs

Total

40 hrs



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**G. I. BAGEWADI ARTS, SCIENCE, COMMERCE & PG COLLEGE, NIPANI**  
**ZOOLOGY DEPARTMENT**

**CERTIFICATE COURSE (VERMICULTURE) TIME - TABLE**

YEAR: 2018-19      B.Sc VI Sem

Days	1	2	3	4	5	6	7	8	9	
Time	9.15-10.15	10.15-10.30	10.30-11.30	11.30-12.30	12.30-1.30	1.30-2.00	2.00-3.00	3.00-4.00	4.00-5.00	5.00-6.00
MONDAY						LUNCH BREAK				
TUESDAY										
WEDNESDAY										
THURSDAY										B.Sc VI VRN
FRIDAY										B.Sc VI SMH
SATURDAY										practical VRN+SMH

  
**Head**  
 Department of Zoology  
 K.L.E's G. I. B. College, Nipani



  
**PRINCIPAL**  
 G.I. Bagewadi Arts, Science &  
 Commerce College, NIPANI.



**K.L.E. Society's**  
**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,**  
**Dist. Belgaum**

Date: 11/01/2019


## **DEPARTMENT OF ZOOLOGY**

**2018-19**

**The following staff members are going to conduct classes for certificate course in Vermitech.**

- 1. Dr. Smt.V.R.Naik**
- 2. Miss. S.M.Hegade**



  
**HOD**  
**Head**  
**Department of Zoology**  
**K.L.E's G. I. B. College, Nipani**



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**G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237**

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**DEPARTMENT OF ZOOLOGY**

**CERTIFICATE COURSE 2018-2019**

**INTERNAL MARKS**

Roll.No.	NAME	Marks
91	Abhishek chougule	19
92	Amit Ammanagi	
93	Arati Gore	18
94	Ashrafali Badiger	20
95	Chaitali Hegade	19
96	Chaitra Hasure	20
97	Pranali Chavan	19
98	Devyani Khot	20
99	Dhanashri Hasure	17
100	Dhanashri Chalake	19
101	Dhanashri Patil	18
102	Divya Chandrakude	20
103	Gouravkumar Chougule	19
104	Jayashri Balikai	20
105	Komal Kadam	17
106	Madhuri Shelke	18
107	Malagouda Patil	19
108	Manoj Kumbar	12
109	Narendra Patil	15
110	Nutan Kurane	18
111	Nutan shettimani	18
112	Omkar Magadum	15
113	Pallavi Sangane	20
114	Pooja Ghorapade	

  
Head

Department of Zoology  
K.L.E's G. I. B. College, Nipani



  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



115	Puja Karekar	16
116	Rachana Patil	20
117	Sangram Sanadi	
118	Santosh Bilage	15
119	Seema Lagamannavar	20
120	Sharad Banne	17
121	Sheetal Magadum	15
122	Shivtej chougale	16
123	Shweta Sapagale	20
124	Sneha Kamble	19
125	Soumya Patil	20
126	Sunita Patil	18
127	Tejas Patil	15
128	Vaishnavi Ajarekar	19
129	Vaishnavi Ambale	19
130	Yogesh Varute	18
131	Pooja Reddy	20
132	Digvijay Nigave	16

K.L.E's G. I. B. College, Nipani



**HOD**

**Head**  
**Department of Zoology**  
**K.L.E's G. I. B. College, Nipani**

**K.L.E SOCIETY'S  
G. I. BAGEWADI COLLEGE, NIPANI.**

**B.Sc.VI SEM**

**Subject: Vermitech**

**Max.marks: 20**

**Date: 20.03.2019**

**Internal Test**

**Answer the following questions**

**2x10=20**

- 1. Briefly explain pot culture.**
- 2. Briefly explain pit culture.**



  
**PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.**

**G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI - 591 237.**



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**EXAMINATION**

Class :	BSC III <sup>rd</sup> sem	Subject :	Zoology (vermitech)
Roll No. :	202	Date :	21/03/2019
Marks Scored :	<input type="text"/>	Test :	

20  
20

Signature of Valuer

Signature of the Invigilator with date

Introduction

Vermiculture is the method of rearing earth worms. Earthworms are commonly called nature's plough man or 'farmer's friend' because of their burrowing nature & contribution towards soil fertility. In recent years they have been widely exploited for organic waste management & production of organic fertilizers. Hence they are rightly called 'cinderella' of organic farming. They are indeed a boon to the environment.

Definition

Vermiculture is defined as 'the scientific method of rearing & maintaining selected species of earthworms under controlled conditions.'

Classification:

- 1) Small Scale or Indoor Vermiculture
- 2) Large Scale or Outdoor Vermiculture

Small Scale :-

This is a simple indoor method of Vermiculture practiced on a small scale. It could also be practiced in colleges under laboratory conditions as a part of the project work.

1. Collection of Earthworms

The collection of earth worms involves the selection of the right type of earthworm for rearing. Based on their niche they have been classified into 3 types.



namely, Epigeic, Endogeic & anecic.  
Of these three varieties of earth worms, Epigeic & anecics have been generally used.

## 2. Preparation of Compost bedding.

The Compost bedding is the material in which the earth worms are grown. It is prepared in the following manner.

\* A large earthen flower pot is taken & the hole at the bottom is plugged with a piece of gunny bag. The base of the pot is also covered by a moist gunny bag.

\* Over this gunny bag the bedding material is spread. Generally any of the following material like coin of coconut, hay, rice husk or saw dust could be used as a bedding material.

\* Once the bedding material is prepared, the feeding material has to be collected. The feeding material could be organic waste like leaves, vegetable waste, waste from the flanteen etc.

\* The finely cut organic waste is next mixed with cow dung & common garden soil in the ratio 3:2:1.1

\* The entire mixture is kept moist by regular sprinkling of water. Care should be taken.

\* The favorable temp of the worm bed is b/w  $25 - 36^{\circ}$  though they are capable of withstanding temp fluctuation.

## 3. Pre processing for primary degradation

Primary degradation is the process of decomposition of Compost bedding by micro organisms.

\* As the action of micro organisms continue, the mixture has to be upturned in order to prevent foul smell due to anaerobic respiration.

\* Care should be taken to keep the pot in well protected shady elevated position, so as to prevent the intervention of ants & other organisms.





#### 4. Inoculation or introduction of worms for their action

Process of introducing the worms into the bedding material.

\* Here, about 15-20 mature oligochaete earthworms are introduced or inoculated into the pre-processed material. The content is carefully covered with moist gunny bag. The worms now feed on the organic matter. This organic matter gets mixed with their intestinal content & is subjected to digestion.

\* Care should be taken.

\* Entire process of Vermicomposting may require about 2-3 months.

#### 5. Harvesting

Process of collection of Vermicompost

\* The Compost should be gently scraped & collected from top layers.

#### Large Scale

This method is practiced on a large scale.

##### 1. Collection of earth worms.

\* The earth worms are generally spotted in garden soil in shady spots.

\* The entire selected area has to be covered with an old jute cloth or bag.

\* The worms have to be transferred with some quantity of the native soil.

##### 2. Prepa of Compost bedding

\* The site of Compost bed preferably, should be in an elevated area with shade. This prevents water stagnation in pits during rains.

\* A layer of broken bricks has to be placed as a drainage layer. Sand to a thickness of 10 cm is





6.5 - 7.5 cm has to be placed to ensure proper drainage.

### 3. Inoculation of the worms.

\* Once the bedding is prepared about 80-100 locally collected epigeic & anecic earthworms could be inoculated.

\* Spreading should be done after removing the large leaves or jute bag kept for protection.

The spread should not exceed 5 cm in thickness for each application.

\* The worms feed on the organic matter.

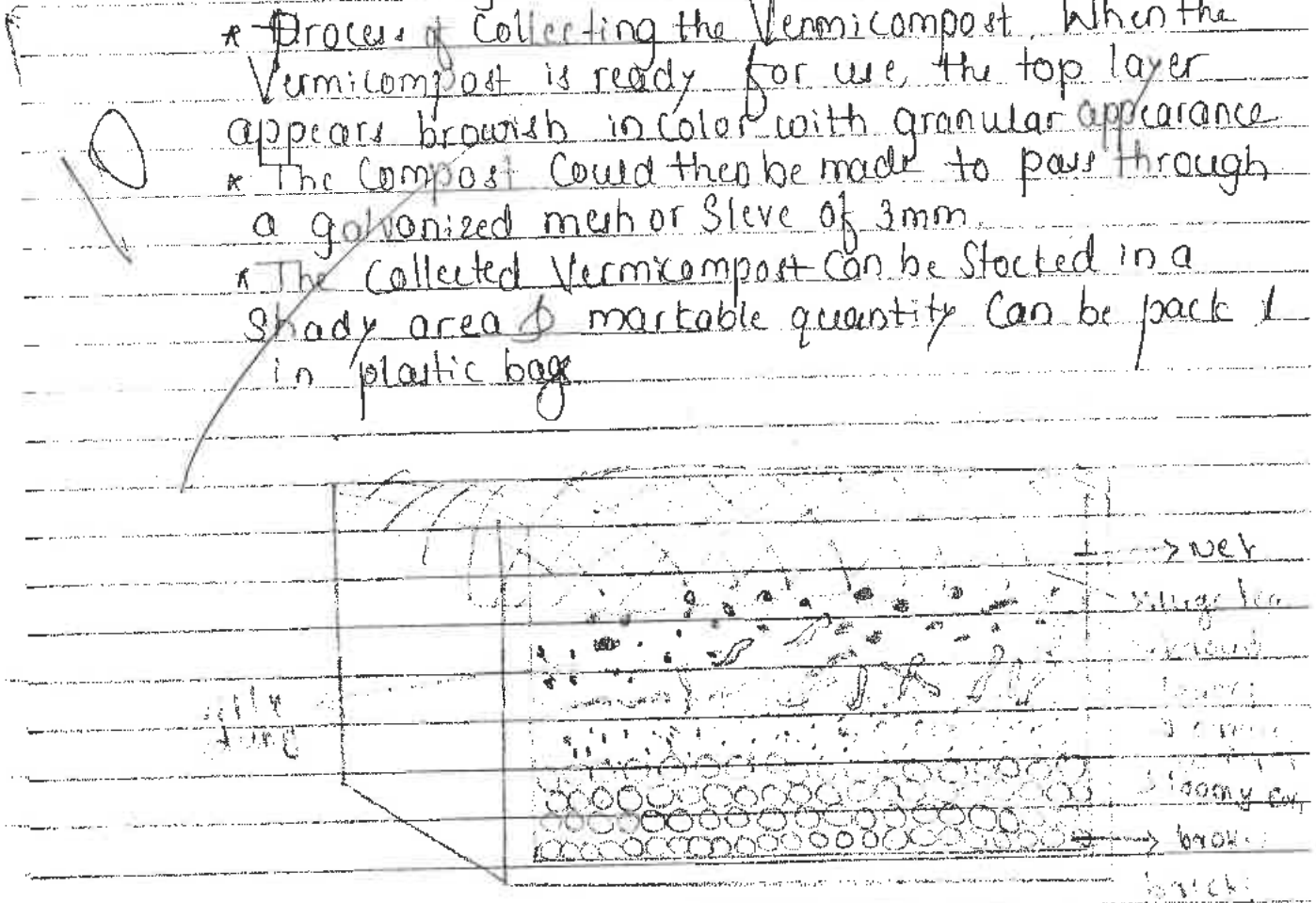
\* Watering is continued & is stopped on the forty-second day.

### 5. Harvesting

\* Process of collecting the Vermicompost. When the Vermicompost is ready for use, the top layer appears brownish in color with granular appearance.

\* The Compost could then be made to pass through a galvanized mesh or sieve of 3mm.

\* The collected Vermicompost can be stored in a shady area & marketable quantity can be packed in plastic bags.



pit culture



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**EXAMINATION**

Class : Bsc VI Sem

Subject : Zoology

Roll No. : 93

Date : 21/8/19

Marks Scored :

Test :

Signature of Valuer

Signature of the Invigilator with date

Pat culture -

① Collection of earthworms -

The collection of earthworm involves the selection of right type of earthworm. For rearing based on their niche they have been classified into 3 types epigeic, endogestic, & anecic.

② preparation of Compost bedding.

① The large earthen flower pot is also taken and the hole at bottom is plugged with piece of gunny bag. The base of the pot is also covered by a moist gunny bag.

② Over this gunny bag the bedding material is spread generally any of the following material like Coir of Coconut hay rice husk or Saw dust could be used as a bedding material. is prepared. The feeding material has to be collected. The feeding material could be organic waste like leaves vegetable waste, These are cut into small pieces in order to increase the feeding efficiency of earthworms.

③ The finely cut organic waste in next next mixed with cow dung and common garden soil in the ratio 3:2:1. in order to increase the process of bio degradation 5% rock phosphate is mixed to the above content.

④ The entire mix is kept moist by regular sprinkling of water. Care should be taken as to maintain adequate moisture of about 20 to 40%. This would



water should be not trickle down from the mixture.

- ⑤ The favorable temp of the worm bed is between 25 to 36° through they are capable of with standing temp fluctuations. The pH has to be maintained around 6.8 to 7.4 the maintain adequate pH by bringing down acidity.

③ pre-processing for primary degradation -

\* As the action of micro-organisms continue, the mix has to be upturned in order to prevent foul smell due to anaerobic respiration the content is covered by old moist gunny bag.

\* Care should be taken to keep the pit is well protected shady elevated.

\* pre processing takes about 15 to 20 days during the which the micro-organisms present in the mixture decompose the organic waste.

④ Inoculation or Introduction of worm for their action.

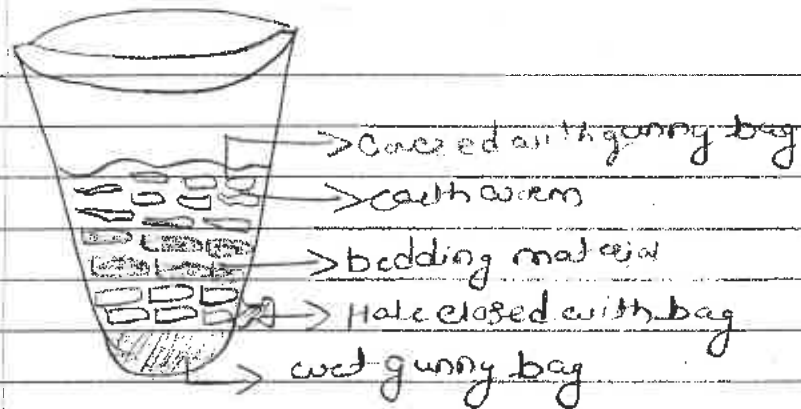
\* Here about 15 to 20 mature epigeic are introduced into the pre proc material. the content is carefully covered with bag. the worms now feed on the organic matter. This Janic matter get mixed with their intestinal content and is subjected to digestion.

\* Care has to be taken to maintain moisture by regularly sprinkling and upturning of the material at least once in week.

\* entire process of vermicomposting may required about 2-3 months.

⑤ Harvesting - ① when the Vermicompost is ready for use top layer appear brownish in colour with granular appearance. stopped water supply.

② The Compost should be gently scraped and collected from top layer. the collected compost is then stocked on the ground under shade or could be packed in small plastic bags for commercial use.



pot Culture.

### pit Culture -

#### Collection of earth worms -

- ① The earth worms are generally spotted in garden soil in shady spots. It is a handful of fresh cowdung is buried in the selected area. It acts as a bait worms.
- ② The entire selected area has to be covered with an old jute cloth or bag. It has to be kept moist by watering regularly. In about ten-15 days time both epigeic and anecic worms may be observed in that place.
- ③ The worms have to be transferred with some quantity of the native soil. the native soil around of the worms.

#### ② preparation of Compost bedding.

- ① The site of Compost bed preferably should be an elevated area with shade. This prevents water stagnation in pits during rains. The pit should not be more 3' in height and 3 in width.

#### ③ Inoculation of the worms.

- ① Inoculation is the process of introducing the worms into the Compost bedding once the bedding is prepared about 80 to 100 locally collected epigeic and anecic earthworm could be inoculated.
- ② The entire unit has to be kept moist by watering by the end of the month juvenile earthworm will be



## Noticed

④ After a month organic wastes available from local resources like kitchen waste wastes from canteen and restaurants market yard agro wastes etc should be spread twice a week over the bedding spreading should not exceed 5cm in thickness for each appl<sup>n</sup>.

\* The worms feed on the organic matter. the organic matter in their digestive system gets mixed with intestinal contents. the digested matter gets absorbed while the undigested material passes out as mud pellets called worm casts. the worm casts thus formed form the Vermicompost.

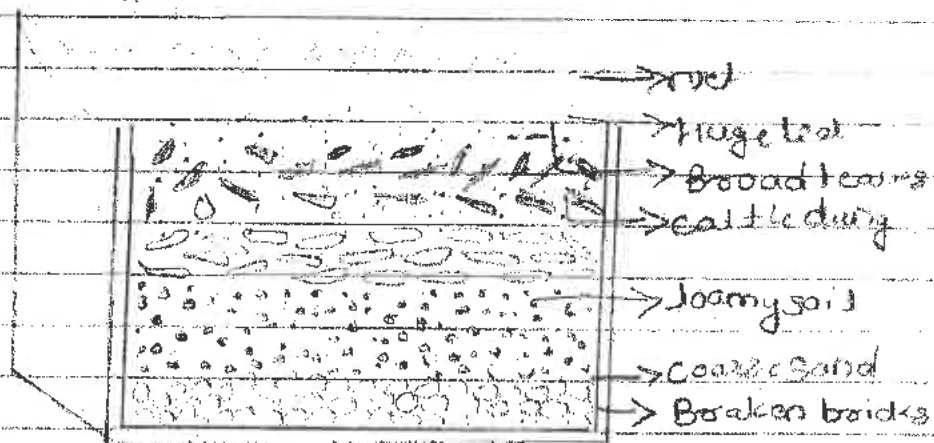
\* watering is continued and is stopped on the forty-second day. this compels the worms to move into the lower end of vermicbed and facilitates harvesting.

## ⑤ Harvesting -

\* Harvesting is the process of collecting the Vermicompost. when Vermicompost is ready for use the top layer appears brownish in colour with granular appearance.

\* The compost could then be made to pass through a galvanized mesh or sieve of 8mm. the worms obtained during sieving could be transferred back to the culture.

\* The collected Vermicompost can be stocked in a shady area and marketable quantity can be packed in plastic bags.



pid culture





K.L.E. Society's

**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI**

(Re- accredited at 'A' Level by NAAC with CGPA 3.35)

# Certificate

DEPARTMENT OF ZOOLOGY

This is to certify that Mr./Miss/ Arati Gore

of B.Sc VI Sem Semester has successfully completed a certificate course in

**Vermitech** during the year 2018-19

Head  
Department of Zoology

Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

PRINCIPAL







K.L.E. Society's  
G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237

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Affiliated to Rani Channamma University, Belagavi, Karnataka, India

Website: WWW.Klegibnnpn.edu.in E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph: 08338-220116

### REPORT ON : CERTIFICATE COURSE ON VERMITECH

Name of the Department	Zoology
Name of the Event Organized	Certificate course
Title of the Event	Vermitech
Date of the Event Organized	20.03.2019
Class	B.Sc. VI Sem
Name of the Convener	Dr. Smt. V. R. Naik
Participants	42
No. of Participants	Total 44 Teachers 02 Students 42
Name of the Expert with Designation	Shri.B.L.Chendake
Contact Number & Address of the Expert	Mob.No-9242467964 A/P-Jatrat.Tal-Chikodi Dist-Belagavi
Objectives of the Event	Interactive session to the students about the earthworms which is a physical crusher and mixer,chemically degradable & biological a stimulator in the decomposition system.
Outcome of the Event	They are the best acceptable disposal of waste, ways for quality, environment & organic farming.
Photo Gallery	
	
Shri. Balakrishan Chendake explaining about Vermiculture.	Species of Earthworm. (Eudrilus Eugenie)

*[Signature]*  
HOD  
Department of Zoology  
G.I. Bagewadi NIPANI

*[Signature]*  
Co-ordinator  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

*[Signature]*  
PRINCIPAL  
G.I. Bagewadi Arts, Science & Commerce College, NIPANI.



III 6



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Ph.: 08338-220116

## DEPARTMENT OF BOTANY

Ref.- GIBN/Bot/CCBot 2/FN-1

Date:

### NOTICE

Department of Botany is Commencing a "Food Processing and Nutrition" in the month of February 2019. Students can enroll their names to Smt. S.S.Sunnal, Department of Botany on or before 20<sup>th</sup> January 2019.

  
HOD

HEAD

Department of Botany  
G. I. Bagewadi College, Nipani.

  
PRINCIPAL

Principal,  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





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Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)/ [klegibnbotany@gmail.com](mailto:klegibnbotany@gmail.com)

Ph.: 08338-220116

## DEPARTMENT OF BOTANY

### SYLLABUS FOR CERTIFICATE COURSE IN FOOD PROCESSING AND NUTRITION

UNIT I. Introduction and importance and scope of food and nutrition. 02 hrs

UNIT II . Food Science: Food, function, food groups, nutrient compositions.

Cereals, Pulses, Vegetables and Fruits, Milk and milk products 12 hrs

UNIT III. Food chemistry: Carbohydrates, lipids, Proteins and their interaction.

Food safety: Food spoilage, control of micro-organisms. 06 hrs

UNIT IV. Food Processing and Preservation: 10 hrs

CONVENER: Prof. (Smt) S.B.Patil<sub>H.O.D.</sub>

RESOURCE PERSONS: Prof. Smt. S.B.Patil

EVALUATION METHOD:

- Theory: One paper of one and half hrs duration for 30 marks
- Practical: 2 hours duration for 20 marks

REFERENCE:

- Foods: Facts and Principles by N.Shakuntala Manay & M. Shadaksharaswamy. New Age International Publishers, New Delhi.
- Food Fundamentals by Williamsons M. John Willey & Sons. Inc. N.Y.
- Food Science by Patter M.N, AVI Publ.Co.N.Y
- Industrial Microbiology by Cassida L.T. wiley Eastern Ltd., London





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(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

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E-mail: [klegib\\_npu@yahoo.co.in](mailto:klegib_npu@yahoo.co.in) / [klegibnbotany@gmail.com](mailto:klegibnbotany@gmail.com)

Ph.: 08338-220116

## DEPARTMENT OF BOTANY

### Certificate course in Food processing and Nutrition

#### Introduction:

Nutrition assumes a vital part of one's health and well being. A decent balanced diet keeps the body active and fit. The course prepares the candidates in the areas of nutrition, food, health and management. The candidates will get the knowledge and skills in food science, cooking, menu planning or preparation, innovations and technology in new healthy foods, special diets, catering and cafeteria. Food processing and Nutrition certificate course helps to provide students with a broad range of both fundamental principles and innovative practices in the subject areas, so they may be able to apply their knowledge proficiently in the food and health sectors and in related industries. The course is designed to enable the students to engage in direct services for older adults such as old age homes, residential and day care facilities, rehabilitation services in the government and private sector.

#### Programme Objective:

The goal of this certificate program is to provide an all-encompassing overview of current substance, nutrition problems and issues along with their effects on social, emotional, physical, and spiritual health.

The course focus on understanding nutritional science, creating awareness on nutrition, its role and benefits, interpretation of nutrition, people's nutrition needs, teaching others and implementation of the nutrition program.

**Course Duration:** Three Months (30 hrs theory + 10 hrs practical= 40 hours)





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Ph.: 08338-220116

## DEPARTMENT OF BOTANY

Ref. - GIBN/Bot/CCBot2/FN. 2

Date:

### TIME-TABLE

#### CERTIFICATE COURSE IN FOOD PROCESSING AND NUTRITION

On every Sunday two classes of one and half hour duration.

On alternate Sundays two hours practical

Day / Time	10 am-11.30am	11.30am-1.00pm	1.30pm-3.30pm
1 <sup>st</sup> Sunday	Theory	Theory	-
2 <sup>nd</sup> Sunday	Theory	Theory	Practical
3 <sup>rd</sup> Sunday	Theory	Theory	-
4 <sup>th</sup> Sunday	Theory	Theory	Practical

Effective from February 2019

HOD

HEAD

Department of Botany

G. I. Bagewadi College, Nipani.

PRINCIPAL

Principal,

G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



K.L.E.Society's  
G.I.Bagewadi Arts, Science and Commerce College, Nipani  
Examination 2019-20  
**Certificate Course in Food Processing and Nutrition**

**Time: 30 mins**

**Marks: 30**

**All Questions Carry Equal Marks**

**10 X 3= 30**

**Select the correct answer and give the explanation.**

**1. Food processing in India is concentrated in which sector, maximum?**

- a) Organized Sector
- b) Unorganized sector
- c) Small Scale
- d) None of the mentioned

**2. Which among these is a factor for processed food in India?**

- a) Changing lifestyles
- b) Food habits
- c) Organized food retail
- d) All of the mentioned

**3. There has been a shift from carbohydrate staple to animal sources and sugar in developed countries.**

- a) True
- b) False

**4. Statement 1: There will be a shift of demand snacks, convenience food and organic and diet food.**

**Statement 2: High taxation is a constraint for the food processing industry.**

- a) True, False
- b) True, True
- c) False, False
- d) False, True

**5. Which of the following are NOT key constraints of the food processing industry?**

- a) Inadequate quality control
- b) High packaging cost
- c) Low demand
- d) Poor infrastructure as in no cold storage, warehouse etc

**6. Which of the following is untrue?**

- a) Basmati rice has gained international recognition
- b) Wine industry is gaining support in India, especially Maharashtra
- c) Dairy industry of India is the largest in the world
- d) None of the mentioned

**7. Which of the following comes under grain processing in India?**

- a) Oil seed processing
- b) Wheat processing



- c) Oil seed & Wheat processing
- d) None of the mentioned

**8. The biggest processing segment under food processing is the meat, poultry, vegetables and oil industry.**

- a) True
- b) False

**9. Export of marine products has been on a decline.**

- a) True
- b) False

**10. Which of the following do you think is a valid reason for decline of export of marine products to USA?**

- a) Emerging markets in USA
- b) Anti- dumping procedure by US government on many marine products
- c) Emerging markets in USA & Anti- dumping procedure by US government on many marine products
- d) None of the mentioned



EXAMINATION

Class : B.Sc 5th sem

Subject : certificate course in

Roll No. : 108 104

Date : 13/04/2019

Marks Scored :

Test : 131

Signature of Valuer

Signature of the Invigilator with date

1. Food processing in India is concentrated in which sector, maximum?

Ans - b.

Explanation: Food processing in India is concentrated in the unorganized sector, maximum!

2. Which among these is a factor for processed food in India?

Ans - d

Explanation: Changing lifestyles, food habits & organized food retail are all factors for processed food in India.

3. There has been a shift from carbohydrate staple to animal sources & sugar in developed countries.

Ans - a.

Explanation: It is true that there has been a shift from carbohydrates staple to animal sources & sugar in developed countries.

4. Statement 1: There will be a shift of demand snacks, convenience food & organic & diet food.

Statement 2: High taxation is a constraint for the food processing industry.

Ans: b

Explanation: Both the statements are true.

5. Which of the following are not key constraints of the food processing industry?

Ans - C

Explanation: The demand for food is surplus. Hence it cannot be a constraint.

6. Which of the following is untrue?

Ans - d

Explanation: All the statements given are true.

7. Which of the following comes under grain processing in India?

Ans - None of the mentioned

Explanation - Both oil seed processing & wheat processing come under grain processing.

18. The biggest processing segment under food processing is the meat, poultry, vegetables & oil industry.

Ans - a

Explanation: The biggest processing segment under food processing is the meat, poultry, vegetables & oil industry. This statement is true.

9. Export of marine products has been on a decline.

Ans - a

Explanation: Export of marine products has been on a decline due to the markets in USA & Europe.

10. Which of the following do you think is a valid reason for decline of export of marine products to USA?

Ans - C

Explanation - There has been a decline of export of marine products to USA due to the emerging market there & the anti-dumping procedure by US government on many marine products. Hence both the mentioned points are correct.





**K.L.E. SOCIETY'S**  
**G I BAGEWADI ARTS, SCIENCE & COMMERCE**  
**COLLEGE NIPANI – 591 237** (Karnataka-India)

(Accredited by NAAC at 'A' Level with CGPA 3.35)

**“FOOD PROCESSING AND NUTRITION”**

*Conducted By*


**DEPARTMENT OF BOTANY**

**Certificate**

This is to certify that Mr./Ms. Harsha Shirakoli of  
B.Sc. VI sem has completed the Certificate Course in  
Food Processing and Nutrition satisfactorily and secured 'B' grade.

  
**CO-ORDINATOR**



  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
**PRINCIPAL**



K. L. E. Society's  
G. I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237  
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## DEPARTMENT OF BOTANY

Ref.:E/E/Cert/1pg

Date: 19.04.2019

### Report on Certificate course in Food Processing and Nutrition 2018-19

Name of the Department	Botany
Name of the Event Organized	Certificate course
Title of the Event	Food Processing And Nutrition
Date of the Event Organized	February -April 2019
Name of the Convener	Smt. S.B.Patil,
Participants	V semester Botany Students
No. of Participants	19
Name of the Expert with Designation	Smt. S.B . Patil
Contact Number & Address of the Expert	G. I. Bagewadi College, Nipani
Objectives of the Event	To understand Nutritional Science
Outcome of the Event	Students learnt about Nutritional Science

HOD

Head

Department of Botany

K. L. E. Society's College, Nipani.

Co-ordinator IOAC

K. L. E. Society's  
G. I. Bagewadi College, Nipani.

PRINCIPAL

PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



**K. L. E Society's**

**G.I. Bagewadi Arts, Science, Commerce & PG College, Nipani**

**DEPARTMENT OF MATHEMATICS**

**Certificate Course for the year 2018-19**


**NOTICE**

Department of Mathematics is going to start a Certificate Course in "Reasoning and Quantitative Aptitude " in the third week of January 2019 which is very useful for all type of competitive exams., Bank exams., CET for PG courses and MNC online exams. etc. So interested students of B.A., B.Sc. , B.Com. can enroll their names in the Dept. of Mathematics on or before 15/1/ 2019.

  
**HOD**  
Head

Department of Mathematics  
K.L.E's G. I. B. College, Nipani.

  
**IQAC Co-ordinator**  
K.L.E's G. I. B. College, Nipani.

  
**Principal**  
G.I. Bagewadi Arts, Science & Commerce College, Nipani.





**K. L. E. Society's**  
**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
**DEPARTMENT OF MATHEMATICS**  
**Certificate Course in 'Reasoning and Quantitative Aptitude'**  
**Student Enrolment List 2018-19**

Roll No.	Name of the students	Class	Category
1	Rajkumar A. Sankapl	B.Com. VI Sem	III-B
2	Radhika kergute	B. Sc. II Sem	III-B
3	Mayuri Bhivase	B. Sc. II Sem	III-B
4	Vaibhavi Parit	B. Sc. II Sem	II-A
5	Shruti Kumbar	B. Sc. II Sem	II-A
6	Sukanya Chougula	B. Sc. II Sem	III-B
7	Divya B. Kamire	B. Sc. II Sem	III-B
8	Priyanka H. Hajare	B. Sc. II Sem	II-A
9	Megha R. Kumbar	B. Sc. II Sem	II-A
10	Dundappa Hawaldar	B. Sc. II Sem	III-B
11	Satish S. Kankanwadi	B. Sc. II Sem	III-B
12	Rohan Diggewadi	B. Sc. II Sem	III-B
13	Sandesh R. Mali	B. Sc. II Sem	III-B
14	Rohan S. Patil	B. Sc. II Sem	III-B
15	Kapil B. Navanale	B. Sc. II Sem	III-B
16	Mahesh D. Hirikude	B. Sc. II Sem	III-B
17	Maaz B. Momin	B. Sc. II Sem	II-B
18	Manjunath K. Bimngre	B. Sc. II Sem	II-A
19	Sachin R. Nerle	B. Sc. II Sem	III-B
20	Devadas A. Malaba	B. Sc. II Sem	III-B
21	Yashvant S. Himakar	B. Sc. II Sem	SC
22	Vishwanath Rudragoudr	B. Sc. II Sem	III-B
23	Shivprasad Toli	B. Sc. II Sem	III-B
24	Anuradha S. Muddappagol	B. Sc. II Sem	III-B
25	Prajakta B. Maishale	B. Sc. II Sem	III-B
26	Namrata A. Talli	B. Sc. II Sem	III-B
27	Seema S. Kulkarni	B. Sc. II Sem	GM
28	Shruti S. yalagoudanavar	B. Sc. II Sem	III-B
29	Snehal M. Jadhav	B. Sc. VI Sem	III-B
30	Vaishali B. Adake	B. Sc. VI Sem	III-B
31	Shivaling v. Goture	B. Sc. II sem	III-B
32	Manjunath K. Hiremath	B. Sc. II Sem	III-B
33	Snehal D. Patil	B. Sc. II Sem	III-B
34	Yashoda P. Kajave	B. Sc. II Sem	II-A
35	Abhishek R. Patil	B. Sc. II Sem	II-B
36	Avinash A. Ambi	B. Sc. II Sem	II-B
37	Shriya A. Desai	B. Sc. II Sem	III-B
38	Shrinath R. Waddar	B. Sc. II Sem	SC
39	Neha S. More	B. Sc. II Sem	III-B
40	Manisha A. Khot	B. Sc. II Sem	Cat-I
41	Rajuardhini R. Mane	B. Sc. II Sem	III-B
42	Manthan S. Shintre	B.Com. VI Sem	III-B
43	Mallappa B. Done	B.Sc. IV Sem	II-A
44	Prajakta P. Malagave	B.Com. II Sem	III-B
45	Rutuja S. Walake	B.Com. II Sem	III-B
46	Shivani Y. Sutar	B. Sc. II Sem	II-A



**PRINCIPAL**  
**K. L. E. Society's**  
**G. I. Bagewadi College, Nipani.**

**K. L. E Society's**  
**G.I. Bagewadi Arts, Science , Commerce & PG College, Nipani**  
**DEPARTMENT OF MATHEMATICS**  
**Certificate Course in 'Reasoning & Quantitative Aptitude'**  
**2018-19**

**Objectives:**

The Mathematics certificate course is a programme designed to enhance the knowledge of mathematics and strengthen applications to graduate school and the job market. Having a strong background in Mathematics is viewed increasingly as an asset to students seeking entrance to graduate school in most sciences. It is also highly desirable for many employers.

This certificate course does not require any high level mathematics or mastery of proof writing , even a non mathematician also can do it. All under graduates and special students are eligible for a Mathematics certificate course.

**Course Details:**

This is a short term course that requires three months of study, which provides strong quantitative skills to students who are willing to appear for Competitive Exam, Entrance tests for MBA, MCA, TGT, PGT, NET, SET etc. How to solve a mathematical questions is not significant in such exams, most important aspect is to how to solve in a fraction of minute, using short cut methods. This has been taken care in this course. The applied nature of the program implies the fact that how to solve objective type questions by short cut methods.

**Particulars of course:**

**Duration:** 3 months, January 2019 to March 2019.

**Schedule :** 4 Lecture hours weekly, total of 50 class hours.

**Target Audience:** Mainly undergraduate students of all faculty, also postgraduate students and professionals.

**Fees:** Rs.500

**Number of students enrolled:** 34

**Evaluation:** After two months of starting of course one test for 20 marks will be conducting and final Exam will be conducted at the end of course (objective type question) , and grade will be given according to their performance in final exam.



  
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**No. of hours unit wise:**

S. No.	Units	No. of hrs.	Weight-age of Marks
01	Reasoning	05	05
02	Calendar	05	03
03	Problems on Ages	05	02
04	Average and Percentage	05	02
05	Profit and Loss	05	02
06	Ratio and proportion	05	02
07	Simple and compound interest	05	02
08	Time and work, time and distance	05	03
09	Problems on trains	05	02
10	Venn diagram based questions	02	01
11	LCM and HCF	03	01

**Unit wise syllabus of the course:**

**Unit 1: Reasoning (Series completion)**

Number series and alphabet series

5 hrs.

**Unit 2: Calendar**

Definitions of ordinary year, leap year, odd day, counting of odd days in a month and a year. Method of calculation of odd days for particular date and finding the day for given date and examples.

5 hrs.

**Unit 3: Problems on ages**

Finding the ages of father, son or daughter under given conditions.

5 hrs.

**Unit 4: Average and Percentage**

Formulae , concept of average and examples. Concept of percentage , Results on population, results on depreciation.

5 hrs.

**Unit 5: Profit and Loss**

Coast prize (CP), selling prize(SP), profit or gain, loss, formulae and examples. 5 hrs

**Unit 6: Ratio and proportion**

Ratio, proportion, comparison of ratios, compounded ratios, duplicate ratios, sub-duplicate, sub- triplicate ratio, variation.

5 hrs.

**Unit 7: Simple and compound interest**

Principle, interest, simple interest (SI), examples. Compound interest- concept of compound interest, calculation of amount for different periods.

5hrs



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### Unit 8: Time and work, Time and distance, pipes and cisterns

Formulae and examples, time and distance. Pipes and cisterns- Concept of Inlet, outlet. 5 hrs.

### Unit 9: Problems on Trains.

Formulae for calculating speed, time, distance, relative velocity for moving in same and opposite direction and examples. 5 hrs.

### Unit 10: Venn diagram based questions & LCM and HCF

5 hrs.

### Reference Books:

- 1) Quantitative Aptitude for competitive examinations- R. S. Aggarwal
- 2) Verbal and nonverbal Reasoning - R. S. Aggarwal
- 3) Objective Arithmetic - R. S. Aggarwal

### Distribution of Syllabus:

S.No.	Name of the teacher	Units allotted	No. of hours
1.	Miss Girija Karaguppi	3 & 10	10
2.	Miss Vinaya Khot	2 & 5	10
3.	Mr. Sammed Chougale	6 & 9	10
4.	Mr. Jinendra Magadam	4 & 7	10
5.	Miss Sonali Patil	1 & 8	10
6.	Dr. M. M. Shankrikopp	10	02
7.	Miss L. D. Mantrannavar	11	03

### TIME TABLE

DAY	TIME
Saturday	5.00 pm to 6.00 pm
Sunday	10.00 am to 1.00 pm
On holidays 10.00 am to 12.00 noon	
Weekly 4 hrs	

  
**HOD**  
Head

Department of Mathematics  
K.L.E's G. I. B. College, Nipani.

  
IQAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.

  
Principal  
**PRINCIPAL**  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.



**K. L. E. Society's**  
**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
**DEPARTMENT OF MATHEMATICS**  
**Certificate Course in 'Reasoning and Quantitative Aptitude'**  
**Marks List for obtained in final exam 2018-19**

Roll No.	Name of the students	Class	Marks Obtained
1	Rajkumar A. Sankapl	B.Com.VI Sem	AB
2	Radhika kergute	B. Sc. II Sem	09
3	Mayuri Bhivase	B. Sc. II Sem	08
4	Vaibhavi Parit	B. Sc. II Sem	07
5	Shruti Kumbar	B. Sc. II Sem	12
6	Sukanya Chougula	B. Sc. II Sem	06
7	Divya B. Kamire	B. Sc. II Sem	10
8	Priyanka H. Hajare	B. Sc. II Sem	09
9	Megha R. Kumbar	B. Sc. II Sem	AB
10	Dundappa Hawaldar	B. Sc. II Sem	10
11	Satish S. Kankanwadi	B. Sc. II Sem	09
12	Rohan Diggewadi	B. Sc. II Sem	08
13	Sandesh R. Mali	B. Sc. II Sem	AB
14	Rohan S. Patil	B. Sc. II Sem	07
15	Kapil B.Navanale	B. Sc. II Sem	AB
16	Mahesh D. Hirikude	B. Sc. II Sem	AB
17	Maaz B. Momin	B. Sc. II Sem	06
18	Manjunath K. Bimngre	B. Sc. II Sem	07
19	Sachin R. Nerle	B. Sc. II Sem	AB
20	Devadas A. Malaba	B. Sc. II Sem	06
21	Yashvant S.Himakar	B. Sc. II Sem	10
22	Vishwanath Rudragoudr	B. Sc. II Sem	09
23	Shivprasad Toli	B. Sc. II Sem	13
24	Anuradha S. Muddappagol	B. Sc. II Sem	11
25	Prajakta B. Maishale	B. Sc. II Sem	10
26	Namrata A. Talli	B. Sc. II Sem	11
27	Seema S. Kulkarniu	B. Sc. II Sem	10
28	Shruti S. yalagoudanavar	B. Sc. II Sem	10
29	Snehal M.Jadhav	B. Sc. VI Sem	AB
30	Vaishali B. Adake	B. Sc. VI Sem	AB
31	Shivaling v.Goture	B. Sc. II sem	11
32	Manjunath K. Hiremath	B. Sc. II Sem	08
33	Snehal D. Patil	B. Sc. II Sem	09
34	Yashoda P. Kajave	B. Sc. II Sem	13
35	Abhishek R.Patil	B. Sc. II Sem	AB
36	Avinash A. Ambi	B. Sc. II Sem	07
37	Shriya A. Desai	B. Sc. II Sem	11
38	Shrinath R. Waddar	B. Sc. II Sem	AB
39	Neha S.More	B. Sc. II Sem	11
40	Manisha A. Khot	B. Sc. II Sem	13
41	Rajuardhini R.Mane	B. Sc. II Sem	AB
42	Manthan S. Shintre	B.Com. VI Sem	AB
43	Mallappa B. Done	B.Sc. IV Sem	07
44	Prajakta P.Malagave	B.Com. II Sem	AB
45	Rutuja S.Walake	B.Com. II Sem	06
46	Shivani Y. Sutar	B. Sc. II Sem	10



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**K. L. E. Society's**  
**PRINCIPAL**  
  
**PRINCIPAL**  
**K. L. E. Society's**



Name: \_\_\_\_\_  
Class: \_\_\_\_\_  
Roll No. \_\_\_\_\_

K. L. E. Society's  
G. I. Bagewadi Arts, Science & Commerce College, Nipani  
Department of Mathematics

Examination on Certificate Course 2018-19

Time: 1 hr.

Date: 04-04-2019

Marks: 25

*Answer all the questions*

**Note: Separate answer sheet is provided**

1. If 21.12.1960 was on Wednesday then what is the day for 21.12.2020?

a) Monday b) Tuesday c) Wednesday d) Thursday

2. If MATHS is coded as 'pcwkv' then PHYSICS is coded as

(a) rjztjet (b) qiztjeu (c) skbvlfv (d) none of these

3. The value of  $(1+1/2)(1+1/3)(1+1/4)(1+1/5)----- (1+1/120)$  is

(a) 30 (b) 40.5 (c) 60.5 (d) 121 (e) 120

4. 3 pumps working 8 hrs a day can empty a tank in 2 days. How many hrs. a day must 4 pumps work to empty a tank in 1 day? (a) 9 (b) 10 (c) 11 (d) 12

5. LCM of  $\frac{1}{2}, \frac{3}{7}, \frac{4}{92}$  is a) 1/128 b) 12/128 c) 12 d) 128

6. In an entrance examination Ritu scored 56% of marks, Smita scored 92% and Anuja scored 634 marks. The maximum marks of the Exam are 875. What are the average marks scored by all the three together?

(a) 1925 (b) 815 (c) 690 (d) 643

7. Rubina could get equal no. of tickets of Rs 55, Rs 85 and Rs 105 for a movie. She spends Rs 2940 for all the tickets. How many each she did buy? a) 12 (b) 14 (c) 16 (d) none of these

8. The average weight of a class of 24 students is 35 kg. If the weight of the teacher be included, the average increases by 400 gm. The teacher's weight is a) 45 kg. b) 50 kg. c) 53 kg. d) 55 kg

9. The difference between the compound interest and the simple interest on a certain sum at 5% per annum for 2 yrs. is Rs. 1.50. The sum is a) Rs. 600 b) Rs. 500 c) Rs. 400 d) Rs. 300

10. A man sells two flats at the rate of Rs. 1,995 lacks each. On one he gains 5% and on the other he losses 5%. His gain or loss % in the whole transaction

a) 0.25 % loss b) 0.25 % gain c) 2.5% loss d) 25% loss

11. If the first day of an year (non leap year) is Friday then what is last day for the same year ?

a) Sunday b) Monday c) Friday d) Saturday

12. Mr. Mahesh borrows Rs. 12,000 at the rate of 10% per annum simple interest, immediately invests it for Compounding at the same rate. The profit obtained by him at the end of the third yr. is

(a) 372 (b) 382 (c) 362 (d) 392



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13. If KSET 2011 is coded as LUHX3122 then how TREE 4233 will be coded ?

- (a) UTHH 5344 (b) TUHH 4122 (c) HHTU 4122 (d) THHU 5344

14. A goods train runs at the speed of 72mkph and crosses 250 mts. long platform in 26 secs. What is the length of goods traia? a) 250mts b) 220mts. c) 270 mts. d) 200 mts.

15. If A is a father of C and D is daughter of B, E is the wife of C and A is married to B then how E is related to B? (a) Sister (b) Daughter (c) Daughter in law (d) Mother in law

16. Tanya's grandfather was 8 times older to her 16 years ago. He would be three times of her age 8 years from now. 8 years ago what was the ratio of Tanya's age to that of her grandfather ?

- a) 1 : 2 b) 1 : 5 c) 3 : 8 d) None of these

17. My brother is three years elder to me. My father was 28 years of age when my sister was born while the mother was 26 years of age when I was born. If my sister was 4 years of age when my brother was born, then what was the age of my father and mother respectively when my brother was born?

- a) 32, 23 b) 32, 29 c) 35, 29 d) 35, 33

18. If A, B, C can do a piece of work in 36, 56 and 72 days resply. They started the work, but A left 8 days before the completion of work while B left 12 days before the completion of the work then the number of days for which C worked is?

- a) 12 b) 24 c) 48 d) 36

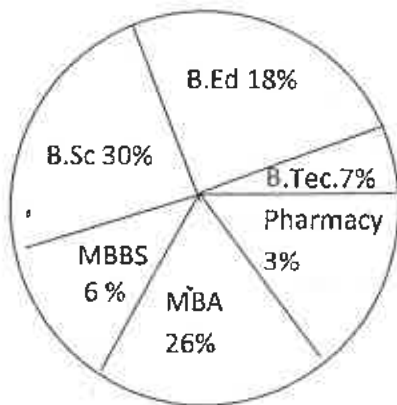
19. Find out wrong no. in the series 29, 37, 21, 43, 13, 53, 5.

- a) 37 b) 43 c) 13 d) 21

20. A jogger running at 9 km/hr alongside a railway track is 240 meters ahead of the engine of a 120 meter long train running at 45 km/hr in the same direction. In how much time will the train pass the jogger a) 3.6 sec. b) 18 sec. c) 36 sec. d) 72 sec.

21. Study the following Pie Chart carefully and answer the questions 21<sub>1</sub>, 21<sub>2</sub> and 21<sub>3</sub> below:

Total number of students in the institution = 6500



21<sub>1</sub>: What is the value of half of the difference between the no. of Students in MBA and MBBS ?

- a) 800 (b) 1600 (c) 1300 (d) 650 (e) none

21<sub>2</sub>: How much more % (appr.) of students are in MBA as Compared to students in B.Ed.?

- (a) 49 (b) 53 (c) 59 (d) 41 (e) 44

21<sub>3</sub>: No. of students in B. Sc is approximately what % of the no. of students in B.Ed.

- (a) 167 (b) 162 (c) 157 (d) 153 (e) 150

22. We are studying in KLE's G.I. B. College Nipani. Therefore KLE's G.I. B. College Nipani is \_\_\_\_\_ our College.

23. Arrange the fractions  $\frac{17}{18}$ ,  $\frac{31}{36}$ ,  $\frac{43}{45}$ ,  $\frac{59}{60}$  in the ascending order.





Name: Anuradha S. Muddeppagal  
 Class: BSc II<sup>nd</sup> sem  
 Roll No. 81

**K. L. E. Society's**  
**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
**Department of Mathematics**  
**Examination on Certificate Course 2018-19**  
**Date: 04-04-2019**

II  
 25

**Answer Sheet (Fill the circle for correct answer)**

Q. No.	Answers				Q. No.	Answers			
	(a)	(b)	(c)	(d)		(a)	(b)	(c)	(d)
1. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	11. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	12. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
3. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	13. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	14. ✓	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	15. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
6. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	16. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
7. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	17. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
8. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	18. ✓	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
9. ✓	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	19. ✓	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	20. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
21 <sub>1</sub> . ✓	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
21 <sub>2</sub> . ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
					23. ✓	31/36, 17/18, 43/45, 59/60			

Suggestion: \_\_\_\_\_





Name: Yashoda P. Kajave  
 Class: B.Sc. II<sup>nd</sup> sem [Pcm]  
 Roll No. 197

13  
25

**K. L. E Society's**  
**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
**Department of Mathematics**  
**Examination on Certificate Course 2018-19**  
**Date: 04-04-2019**

**Answer Sheet (Fill the circle for correct answer)**

Q. No.	Answers				Q. No.	Answers			
	(d)	(b)	(c)	(d)		(a)	(b)	(c)	(d)
1. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	11. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
2. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	12. ✓	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. ✓	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	13. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	14. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
5. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	15. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
6. ✓	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	16. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
7. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	17. ✓	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	18. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
9. ✓	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	19. ✓	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	20. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
21 <sub>1</sub> . ✓	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	21 <sub>2</sub> . ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
21 <sub>2</sub> . ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	22. ✓	Name of our college.			
					23. ✓	43, 59, 31, 17 45, 60, 36, 15			

Suggestion:





K.L.E. Society's

# G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI

Accredited at 'A' Level by NAAC with CGPA 3.35

Department of Mathematics

## CERTIFICATE

COURSE CODE : BScMC 2018

This is to certify that Mr./Miss/ Yashodha Kajare

of B.Sc II Semester has successfully completed a certificate course in

**Reasoning and Quantitative Aptitude** during the year 2018-19

Head

Department of Mathematics

Co-ordinator IOAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.   
PRINCIPAL





K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237

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(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: www.klegibnnpn.edu.in E-mail: klegib\_npn@yahoo.co.in Ph: 08338-220116

### REPORT ON CERTIFICATE COURSE FOR THE YEAR 2018-19

Name of the Department	Mathematics	
Name of the Event Organized	Certificate Course	
Title of the Event	Reasoning and Quantitative Aptitude	
Date of the Event Organized	26/01/2019	48 hours
Name of the Convener	Dr.(Smt.) M.M.Shankrikopp	
No of Students Enrolled	46	
Date of Final Exam Conducted	04/04/2019	
No of Students Appeared for Final Exam	33	
Name of the Expert with Designation	Faculty Members	
Objectives of the Event	<ul style="list-style-type: none"><li>➤ To improve analytical skills</li><li>➤ Practice for competitive exams</li></ul>	
Outcome of the Event	<ul style="list-style-type: none"><li>➤ It helps the students who are appearing for Navy, Army, Air force, SSC, FDA, SDA, KAS exams</li><li>➤ Some students got selected for campus interviews, Army and Navy</li></ul>	

#### Photo Gallery



Supervision by faculty members

  
IQAC Coordinator  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani,

  
HOD  
Head  
Department of Mathematics  
K.L.E's G. I. B. College, Nipani

  
Principal  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.



  
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Commerce College, NIPANI.

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# **Certificate Course**

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**SELF EMPLOYMENT AND  
ENTREPRENEURSHIP DEVELOPMENT**

---

**2018-2019**

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**K.L.E. Society's  
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE UG AND PG COLLEGE,  
NIPANI**

**DEPARTMENT OF ECONOMICS**

**Certificate Course: 2018-19**

**SELF EMPLOYMENT AND ENTREPRENEURSHIP  
DEVELOPMENT**

  
**Prof. M. S. Vanaki**

Course Co-ordinator

**Dr. B. S. Kamble**

Head, Department of Economics





K.L.E. Society's

**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

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## **Department of Economics**

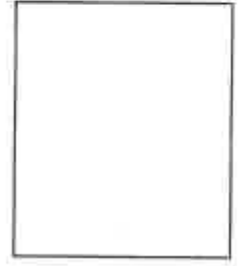
### **Certificate Course 2018-19**

#### **Index**

- 1. Course Structure**
- 2. BOS approval**
- 3. Notice**
- 4. Enrollment**
- 5. Test Time / Result Sheet**
- 6. Field Visit**
- 7. Certificate**
- 8. Report**



**K.L.E. Society's**  
**G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE**  
**COLLEGE, NIPANI**  
**DEPARTMENT OF ECONOMICS**  
**Certificate Course: 2018-19**



**Admission Form**

**Self Employment and Entrepreneurship Development Course**

1. Name :
2. Class :
3. Reg No :
4. Date of Birth :
5. Gender :
6. Category :
7. Address(Residential)
- With Cell no/Phone no :

Date:

Signature



**K.L.E. Society's**  
**G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI**  
**Certificate Course: 2018-19**

**Self Employment and Entrepreneurship Development**  
**Student Enrollment List**

Sl No	Name	Class/Sem	Signature
1.	Amar Naslapure	B.A VI Sem	
2.	Arati Kesti	B.A VI Sem	
3.	Birappa Jhunke	B.A VI Sem	
4.	Mahejabeen Parakute	B.A VI Sem	
5.	Manjunath Banase	B.A VI Sem	
6.	Manjunath Gavade	B.A VI Sem	
7.	Prashant Shindigiri	B.A VI Sem	
8.	Prathmesh Patil	B.A VI Sem	
9.	Pratibha Patil	B.A VI Sem	
10.	Pravina Chougule	B.A VI Sem	
11.	Priyanka Patil	B.A VI Sem	
12.	Rani Patil	B.A VI Sem	
13.	Santosh Shingadi	B.A VI Sem	
14.	Sarswati Jedar	B.A VI Sem	
15.	Shruti Hukkeri	B.A VI Sem	
16.	Uzama Goundi	B.A VI Sem	
17.	Akshata Bagewadi	B.A IV Sem	
18.	Almas Mulla	B.A IV Sem	
19.	Annapurneshwari Mudhale	B.A IV Sem	
20.	Bipin Basannavar	B.A IV Sem	
21.	Deepa Shingadi	B.A IV Sem	
22.	Firozkhan Khanu	B.A IV Sem	
23.	Gayatri Patil	B.A IV Sem	
24.	Gajala Govandi	B.A IV Sem	
25.	Komal Patil	B.A IV Sem	
26.	Manjunath Karegar	B.A IV Sem	
27.	Maruti Gavade	B.A IV Sem	
28.	Mayuri Harera	B.A IV Sem	
29.	Namira Inamdar	B.A IV Sem	
30.	Ningappa Pujari	B.A IV Sem	
31.	Padma Banne	B.A IV Sem	
32.	Pallavi Kurade	B.A IV Sem	
33.	Pooja Patil	B.A IV Sem	
34.	Prashant Patil	B.A IV Sem	
35.	Ratana Baladannavar	B.A IV Sem	
36.	Sandyarani Chavan	B.A IV Sem	
37.	Sangeeta Mali	B.A IV Sem	
38.	Sneha Mangsuli	B.A IV Sem	
39.	Soundarya Kabbur	B.A IV Sem	
40.	Prem Sanadi	B.A II Sem	

  
Course Co-ordinator

Head of the Department



  
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**G. I. Bagewadi College, Nipani.**

# Certificate Course U.G. Students

## Self Employment and Entrepreneurship Development Course

### 1. RATIONALE OF COURSE

The emerging concept of self-reliance at individual and national level - has significant impact on current developing economy. Future social expectations towards engineering professionals would be certainly as job creators and not as purely job seekers. Upgraded technological and changing economic environment has opened up wide horizons of business areas-including in service sectors too. This course deals with the key concern areas of self-employment and entrepreneurship development. This course is directed to help students to develop and shape their creativity and to understand peripheral influencing aspects. The content will certainly help students to think in a direction to establish a new enterprise using fundamental knowledge.

### 2. LIST OF COMPETENCY.

The course content should be taught and implemented with the aim to develop different types of skills so that students are able to acquire following competencies:

1. Develop entrepreneurship and self-employment abilities to start any venture
2. Plan, use, monitor and control resources optimally and economically.

### 3. COURSE OUTCOMES /OBJECTIVES

The theory should be taught and practical should be carried out in such a manner that students are able to acquire different learning outcomes

1. Identify entrepreneurial quality.
2. Develop the ability to select potential areas for self-employment.
3. Select appropriate agency for technical and financial support.
4. Prepare project setup planning and project report.
5. Identify risk factors of project and their remedial measures



  
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**Certificate Course U.G. Students**  
**Self Employment and Entrepreneurship Development Course**  
**Syllabus**

Units	Contents
Unit: I Introduction to self-employment and entrepreneurship development.	<p>1.1 Introduction of self-employment</p> <ol style="list-style-type: none"> <li>i. Concept and need in present Indian job market context.</li> <li>ii. Characteristics of self-employment areas</li> <li>iii. Broader ways to identify self employment areas</li> </ol> <p>1.2. Concept and importance of productivity, quality, cost consciousness and customers' satisfaction.</p> <p>1.3 Types of enterprise</p> <ol style="list-style-type: none"> <li>i. Micro</li> <li>ii. Small</li> <li>iii. medium enterprises</li> </ol>
Unit II Entrepreneurial Support Agencies	<p>2.1. Definition – Micro, small and medium industries.</p> <p>2.2. Registration process of an enterprise with Government agencies.</p> <p>2.3. Name, type and role of state and national level support agencies for:</p> <ol style="list-style-type: none"> <li>i. Sources of information.</li> <li>ii. Financial assistance.</li> <li>iii. Technical assistance.</li> <li>iv. Training.</li> </ol> <p>2.4 Current state &amp; national level promotional schemes for establishment of new enterprise</p>
Unit :III Project Proposal Planning	<p>Project report</p> <ol style="list-style-type: none"> <li>i. Meaning of project planning and report.</li> <li>ii. Feasibility study</li> <li>i. Details required for preparing project plan.</li> <li>ii. Project cost estimation.</li> <li>iii. Cost, Volume and Profit (CVP) analysis.</li> <li>iv. Preliminary project report (PPR) and detailed project report (DPR).</li> </ol>
Unit :IV Enterprises and Risk management.	<p>1. Decision making under risk</p> <p>2. Methods of risk management.</p> <p>3. Strength, Weakness, Opportunity and Threat (SWOT) analysis.</p>
Unit – V Case Study and Field Visit	<p>Case studies.: At least two for success and two for failure</p> <p>Analyze success and failures of entrepreneur &amp; self employer and integrate positive conclusions.</p> <ol style="list-style-type: none"> <li>i. Important features.</li> <li>ii. Reasons for success and failures.</li> <li>iii. Analyzing success and failure criteria.</li> <li>iv. Integration of case analysis conclusions in enterprise management for improvement.</li> </ol>
Field visit	Two days



  
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## LEARNING RESOURCES

### I .List of Books

1. Developing Entrepreneurship Pareek & Co. Learning systems, Delhi.
2. Entrepreneurship & Venture - Management Clifford and Bombak, Joseph R. Momanso.
3. Planning an Industrial unit J. N. Vyas.
4. Small Industries management Karmakar M.B.
5. Manual for the preparation of industrial - feasibility studies UNIDO
6. New project opportunities GITCO
7. Creativity Pradeep Khandwala
8. Project profile for reserved - Development commissioner SSI, Items - VOI, I, II & III New Delhi. Small scale industry - Ministry of Industry Govt. of India. Policy & Perceptive, Dialogue with the Entrepreneur – GSFC, Import-Export Policy for SSI - Govt. of India.

Entrepreneurship development and Management R.K.Singal S.K.Kataria and Sons. B) List of II.

### II. Learning Websites.

- i. <http://www.ediindia.org>
- ii. <http://niesbud.nic.in/docs/SelfEmploymentBook.pdf>
- iii. <http://smallb.in/> iv. <http://www.msme.gov.in/>
- v. <http://nimsme.org/>
- vi. <http://www.nsic.co.in/> Self Employment And Entrepreneurship




  
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## Course Content

### Unit Design

UNIT	TITLE	TEACHING HOURS
I	Introduction to self employment and entrepreneurship Development.	10
II	Entrepreneurial Support Agencies	8
III	Project Proposal Planning	8
IV	Enterprises and Risk management	4
V	Case Study and field Visit. Theory	6
Total		36
Field visit : Two days		

• Course co-ordinator	Prof. M. S. Vanaki
• Resource Persons	DIC Belgaum
• Course Intake	40 students
• Fee structure	Rs. 50 per student
• Course period	3 months Jan 2019 to March 2019
• Weekly	3 hours
• Test	<b>ONE TEST, DURATION ONE HOUR THIRTY MINUTES</b>

  
Course Co-ordinator



  
Head of the Department

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**DEPARTMENT OF ECONOMICS**

**Certificate Course: U. G. Students**

**Self Employment and Entrepreneurship Development**

Day	Time
Thursday	4-5pm
Friday	4-5pm
Saturday	4-5pm

Staff Members

Dr. B. S. Kamble

Prof. M.S. Vanaki

  
Course Co-ordinator

  
Head of the Department

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Department of Economics  
Certificate Course Test -2018-19

Topic: Self Employment and Entrepreneurship Development

Date: 28-03-2019

Time: 3pm to 4.30pm

Marks: 50

Sl. No	Name of the Students	Class	Marks
1.	Amar Naslapure	B.A VI Sem	42
2.	Arati Kesti	B.A VI Sem	40
3.	Birappa Jhunke	B.A VI Sem	30
4.	Mahejabeen Parakute	B.A VI Sem	38
5.	Manjunath Banase	B.A VI Sem	34
6.	Manjunath Gavade	B.A VI Sem	38
7.	Prashant Shindigiri	B.A VI Sem	25
8.	Prathmesh Patil	B.A VI Sem	25
9.	Pratibha Patil	B.A VI Sem	35
10.	Pravina Chougule	B.A VI Sem	42
11.	Priyanka Patil	B.A VI Sem	43
12.	Rani Patil	B.A VI Sem	45
13.	Santosh Shingade	B.A VI Sem	45
14.	Sarswati Jedar	B.A VI Sem	38
15.	Shruti Hukkeri	B.A VI Sem	30
16.	Uzama Goundi	B.AIV Sem	32
17.	Akshata Bagewadi	B.AIV Sem	38
18.	Almas Mulla	B.AIV Sem	36
19.	Annapurneshewari Mudhale	B.AIV Sem	40
20.	Bipin Basannavar	B.AIV Sem	20
21.	Deepa Shingadi	B.AIV Sem	38
22.	Firozkhan Khanu	B.AIV Sem	40
23.	Gayatri Patil	B.AIV Sem	38
24.	Gajala Govandi	B.AIV Sem	44
25.	Komal Patil	B.AIV Sem	38
26.	Manjunath Karegar	B.AIV Sem	38
27.	Maruti Gavade	B.AIV Sem	42
28.	Mayuri Herer	B.AIV Sem	38
29.	Namira Inamdar	B.AIV Sem	25
30.	Ningappa Pujari	B.AIV Sem	30
31.	Padma Banne	B.AIV Sem	35
32.	Pallavi Kurade	B.AIV Sem	38
33.	Pooja Patil	B.AIV Sem	40
34.	Prashant Patil	B.AIV Sem	38
35.	Ratan Baladannanvar	B.AIV Sem	35
36.	Sandyarani Chavan	B.AIV Sem	38
37.	Sangeeta Mali	B.AIV Sem	42
38.	Sneha Mangsuli	B.AIV Sem	38
39.	Soundary Kabbur	B.AIV Sem	42
40.	Prem Sanadi	B.AIV Sem	42



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III 9



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E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) / [klegibnbotany@gmail.com](mailto:klegibnbotany@gmail.com)

Ph.: 08338-220116

## DEPARTMENT OF BOTANY

Ref. - GIBN/Bot/CCBot1/Hort. 2

Date:

### NOTICE

Department of Botany is commencing a "Horticultural Techniques-Floriculture" in the month of August 2018. The interested students can enroll their names to Smt. S.S.Sunnal, Department of Botany on or before 20<sup>th</sup> July 2018.

  
HOD  
HEAD

Department of Botany  
G. I. Bagewadi College, Nipani.

  
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Principal,  
G. I. Bagewadi Arts, Science &  
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DEPARTMENT OF BOTANY

List of students enrolled for Certificate Course 2018-19

Sl.No.	Roll.No	Name
1	91	Abhishek Chougule
2	94	Ashrafali Bargir
3	101	Digvijay Nigave
4	103	Gouravkumar Chougule
5	107	Malagounda Patil
6	108	Manoj Kumbhar
7	109	Narendra Patil
8	112	Omkar Magdum
9	119	Santosh Bilage
10	121	Sharad Banne
12	122	Sheetal Magdum
13	123	Shivatej Chougule
14	128	Tejas Patil
15	131	Yogesh Varute
16	126	Soumya Patil
17	127	Sunita Patil
18	129	Vaishnavi Ajarekar
19	130	Vaishnavi Amble
20	132	Pooja Reddy
21	93	Arati Gore
22	95	Chaitali Hegade
23	96	Chaitra Hasure
24	97	Devyani Khot
25	98	Dhanashree Hasure
26	99	Dhanashree chalake
27	100	Dhanashri Patil
28	102	Divya Chrandrakude
29	104	Jayashree Balikai
30	105	Komal Kadam
31	106	Madhuri Shelake
32	110	Nutan Kurane
33	111	Nutan Shettimani
34	113	Pallavi Sangane
35	114	Pooja Ghorapade
36	115	Pranali Chavan
37	116	Puja Karekar
38	117	Rachana Patil
39	120	Seema Lagamannavar
40	124	Shweta Sapagale

Total : 39



  
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## DEPARTMENT OF BOTANY

### Certificate Course in Horticultural techniques- Floriculture

#### Introduction:

**Horticulture** is the branch of agriculture that deals with the art, science, technology, and business of growing plants. It includes the cultivation of medicinal plants, fruits, vegetables, nuts, seeds, herbs, sprouts, mushrooms, algae, flowers, seaweeds and non-food crops such as grass and ornamental trees and plants. It also includes plant conservation, landscape restoration, landscape and garden design, construction, and maintenance, and arboriculture. Inside agriculture, horticulture contrasts with extensive field farming as well as animal husbandry

#### Programme Objective:

Through Horticulture, one can apply their knowledge, skills, and technologies used to grow intensively produced plants for human food and non-food uses and for personal or social needs.

They can work to propagate plants and cultivate them with the aim of improving plant growth, yields, quality, nutritional value, and resistance to insects, diseases, and environmental stresses.

It makes people to work as gardeners, growers, therapists, designers, and technical advisors in the food and non-food sectors of horticulture. Horticulture even refers to the growing of plants in a field or garden.

**Course Duration:** Three Months (30 hrs theory + 10 hrs practical= 40 hours)

**Eligibility:** SSLC/PUC/ to read and write



  
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## DEPARTMENT OF BOTANY

### Syllabus for Certificate Course in Horticultural techniques -Floriculture

<b>Unit 1:</b>	
• Methods of Propagation: Natural and Artificial	8 hrs
<b>Unit 2: Green House technology:</b>	8 hrs
• Introduction , advantages and limitations	
• Types and structure.	
• As applied to ornamental, vegetable, fruit and medicinal plants	
<b>Unit 3: Harvest Technology:</b>	8 hrs
• Management of Flowers	
• Post harvest technology	
<b>Unit 4: Weed Management:</b>	6 hrs
• Invasive weeds	
• Weed control	
<b>Practicals:</b>	8 hrs
1. Tools used in horticulture	
2. Study of methods of vegetative propagation	
3. Flower arrangement	
4. Vegetable carving	

**CONVENER:** Prof. (smt) S.B.Patil.H.O.D.

**RESOURCE PERSONS:** Prof. Smt. S. S. Sunnal

Dr. S.D.Payamalle

#### EVALUATION METHOD:

- **Theory:** One paper of one and half hrs duration for 30 marks
- **Practical:** 1 hour duration for 20 marks

#### REFERENCE:

- Text Book of Horticulture- K. Manibhushan Rao,- Macmillan India Ltd.
- Introduction to Horticulture- N.Kumar, 1<sup>st</sup> edn., Rajalaksmi Publication, 1996
- C.R. Adams, *Principles of Horticulture* Butterworth-Heinemann; 5th edition (11 Aug 2008), ISBN 0-7506-8694-4
- <https://www.rhs.org.uk/>



  
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## DEPARTMENT OF BOTANY

Distribution of Syllabus for Certificate course

**Smt. S.S.Sunnal**

**Unit 1:**

- Methods of Propagation: Natural and Artificial

8 hrs

**Unit 2: Green House technology:**

- Introduction , advantages and limitations
- Types and structure.
- As applied to ornamental, vegetable, fruit and medicinal plants

8 hrs

**Dr. S.D.Payamalle**

**Unit 3: Harvest Technology :**

- Management of Flowers and fruits
- Artificial ripening
- Post harvest technology

8 hrs

**Prof. Smt. S.B.Patil**

**Unit 4: Weed Management:**

- Invasive weeds
- Weed control

6 hrs



  
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## DEPARTMENT OF BOTANY

### TIME-TABLE

#### CERTIFICATE COURSE IN HORTICULTURAL TECHNIQUES-FLORICULTURE

On every Sunday two classes of one and half hour duration.

On alternate Sundays two hours practical

Day / Time	10 am-11.30am	11.30am-1.00pm	1.30pm-3.30pm
1 <sup>st</sup> Sunday	Theory	Theory	-
2 <sup>nd</sup> Sunday	Theory	Theory	Practical
3 <sup>rd</sup> Sunday	Theory	Theory	-
4 <sup>th</sup> Sunday	Theory	Theory	Practical

Effective from August 2018

HOD

HEAD

Department of Botany  
G. I. Bagewadi College, Nipani.



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# Horticultural techniques - 2019


## THEORY

Reg. No.	Roll No.	Student Name	5/8/18	12/08/18	19/08/18	26/08/18	9/09/18	16/09/18	23/09/18	01/10/18	Test						
			1	2	3	4	5	6	7	8		9	10	11	12	13	14
1	91	Abhishek Chougule	1	2	3	3	3	3	4		Ab						
2	94	Ashaafali Bargir	1	2	3	4	5	6	7	8	28						
3	101	Digvijay Nigave	1	2	3	4	5	6	6	7	25						
4	103	Gouravkumar Chougule	1	2	3	3	4	5	6	7	26						
5	107	Malagouda Patil	1	1	1	2	2	2	3	4	17						
6	108	Manoj Kumbhal	1	2	3	3	3	3	4	4	16						
7	109	Narendra Patil	1	2	3	4	4	4	5	5	14						
8	112	Dmkar Magadum	1	2	3	4	4	4	5	5	12						
9	119	Santosh Bilage	1	1	1	2	3	3	4	4	18						
10	121	Sharad Banne	1	2	3	4	4	5	5	6	15						
11	122	Sheetal Magadum	1	1	2	2	3	3	3	4	15						
12	123	Shivatej Chougule	1	2	3	4	5	6	6	7	17						
13	125	Tejas Paphi	1	2	3	4	4	4	4	5	18						
14	130	Yogesh Varute	1	1	1	1	1	2	2	2	18						
15	126	Soumya Patil	1	2	3	4	5	6	7	7	22						
16	127	Sunita Patil	1	2	3	4	5	6	6	7	26						
17	129	Vaishnavi Ajarekar	1	2	2	2	3	4	4	5	23						
18	130	Vaishnavi Amble	1	2	2	2	3	4	4	5	23						
19	132	Pooja Reddy	1	2	3	3	3	4	4	5	24						

## PRACTICAL

		12/08/18	26/08/18	26/09/18	03/10/18	Test													
		16	17	18	19		20	21	22	23	24	25	26	27	28	29	30	31	31
		1	2	3	3					Ab									
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		1	2	3	4					17									
		1	1	2	3					20									
		1	2	2	3					18									
		1	2	3	3					16									
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		1	2	3	3					16									
		1	2	3	3					16									
		1	2	3	3					16									



  
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Examination 2018-19**

**Certificate Course in Floriculture**

**Time: 90 mins**

**Marks: 30**

**Answer the following in two or three sentences each**

**5 X 2 = 10**

1. What are flower preservative?
2. Mention the strategies to prevent ethylene damage in Floriculture
3. Give the reasons why Flowers do not last.
4. Which is the proper harvest time for flowers?
5. What is pre-cooling?

**Answer the following**

**2 X 10= 20**

6. Write a note on Handling of flowers.
7. Write a note on Grading of Flowers





(Re-accredited at 'A' Level by NAAC with CGPA 3.254)

**EXAMINATION**Class : BSC. V<sup>th</sup> sem

Subject : Botany

Roll No. : 103

Date :

Marks Scored : 

Test :

26/30



Signature of Valuer

Signature of the Invigilator with date

1. Fresh flower preservatives are chemicals added to water to make flowers last longer. They contain a germicide, a food source, a pH adjuster, water and sometimes surfactants and hormones. Sucrose is the most common food source used in floral preservatives.

2. There are three strategies to prevent ethylene damage.

1. Keep ethylene from flowers by preventing ethylene pollution.
2. Remove ethylene from the atmosphere, and.
3. Inhibit the effect of ethylene on flowers.

3.1 Food depletion

2. attacked by bacteria and fungi.
3. Normal maturation and aging.
4. Wilting — water stress and xylem blockage.
5. Bruising and crushing.
6. Fluctuating temperatures during storage and trans.

7. color change — ~~bleeding~~ bluing.

8. Accumulation of ethylene.

9. Poor water quality.

10. Suboptimal cultural practices or conditions

4. Each plant material has its own best harvest stage and this can vary depending on the



on the use of and market for, the plant material. Materials for preserving usually are harvested more mature than those for fresh, wholesale markets. Some general rules of thumb for when to harvest are spike type flowers - harvest when one-fourth to one-half of the individual florets are open. Daisy type flowers - harvest when flowers are fully open. These are for a national wholesale market. For local markets, the material can be more mature.

5 Precooling - is a step that rapidly brings the temperature of the flowers down from the field temperature to a proper storage temperature. A low temperature slows the respiration rate of the flowers which in turn helps them last longer. Forced-air cooling is the best method for flowers - cool air is actively forced with fans through the bunched flowers. This can be done when the flowers are in a bucket or when they are packed dry into boxes. The pre-cooling of flowers is a very important step for individuals selling to a large wholesale market, distant markets and if their crop is to be stored for a long time such as peonies. Individuals who sell at a local retail market usually do not need to worry about this step since their flowers will be in the customer's home the day they are picked.

6 Handling - Once harvested, there are a series of steps or tasks done to prepare the flowers for market. These are collectively called handling.

These steps includes.

1. Grading.
2. Leaf removal
3. Bunching





4. Prunning
5. Hydration
6. Special treatments
7. Packing
8. pre cooling
9. Cold storage
10. Delivery to market.

Not all of them are done to all flowers and whether they are used or not depends on the market the flowers are going to be sold to, where and how the steps are done depends on the market and the facilities of the operation. Flowers can have all the handling steps performed in the field, only some done in the field with the rest in the packing shed, or have all handling steps done in the packing shed.

Field handling usually is limited to leaf removal, grading, bunching, hydrating, and packing with immediate transport to market or cold storage or brief holding. Flowers for local retail markets often are packed this way since they are marketed immediately after harvest. Flowers also can have these steps performed in the field and then be transported to a packing shed where prunning, special treatments, precooling and dry packing can be performed.

All the handling steps can be done in a packing shed, too. It often makes for a better flow of activities if they are all done in the same place. Some of the steps can only be feasibly done in the packing shed, such as special treatments, precooling, cold storage & prunning. These extra steps usually are done for flowers going to wholesale market.

7. Grading: starts with deciding which flower to harvest. Only marketable flowers should be harvested. Marketable flowers are free of blemishes, including both leaves and petals.

flowers can be grouped or graded by stem length as there are differences and also by developmental stage. More mature ones should be sold as soon as possible, while others can be held in cold storage for later sales.

How the flowers are bunched and packaged depends on the market you are using. If you are selling in a local retail market you have a lot of flexibility, but your customers will let you know what sells the best. Mixed bunches and single type bunches are both popular. Larger flowers such as lilies, gladiolus and sunflowers often are sold as single stems. Sleeving or wrapping the bunches helps prevent the different bunches and flowers from becoming tangled. Columbine, larkspur, delphinium, baby purple, forget-me-nots and buddleia are flowers that should be wrapped or sleeved prior to marketing to prevent tangling.

Wholesale markets have a set of guidelines for the methods of bunching and packaging flowers, most are bunched by 10's & 5's. Some, like roses and carnations, are bunched by 25's. Lilies-of-the-valley are bunched in 25's & sweet violets are bunched in 100's with a collar of leaves underneath the flowers. Large expensive to grow flowers can be sold by single stems. As stated before some should be wrapped to prevent tangling. Most are boxed and shipped dry. Proper pre-shipment handling is important in order to get flowers to the market in good shape. The flowers should be well hydrated but not wet when packed. Most spike flowers like snapdragons and gladiolus need to be packed upright to prevent the lips from curving. Special boxes or hampers are made for these types of flowers.



Once bunched, flowers should be hydrated placed in water for awhile before they are packed dry. The hydrating step should include a step where, after the flowers are bunched the stems are re-cut under water to eliminate any air bubbles in the xylem that can block the uptake of water. These air bubbles can occur when the flowers were harvested. Once re-cut, the flowers can be placed in a general holding solution used to hydrate the flowers or receive a special treatment such as silver thiosulfate.

Flowers usually are not packed dry into boxes in the field but are in the packing shed for distant wholesale market when flowers are packed into boxes, the bunches are sleeved & wrapped and then packed lightly so the bunches do not move & vibrate in transit. The standard flower box is 12x12x48 inches. There are smaller sizes, too called half & quarter boxes that are 6x12x48 inches and 6x6x48 inches, respectively.





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**G I BAGEWADI ARTS, SCIENCE & COMMERCE**  
**COLLEGE NIPANI – 591 237 (Karnataka-India)**

(Reaccredited by NAAC at 'A' Level with CGPA 3.35)

## “Certificate Course in Horticultural Techniques”

*Conducted By*

**DEPARTMENT OF BOTANY**

# Certificate

This is to certify that *Mr./Ms.* Tejas Patil of

B.Sc V Sem

has completed the Certificate Course in

*Horticultural Techniques satisfactorily and secured* \_\_\_\_\_ *grade.*

**HEAD**

**DEPT. OF BOTANY**



Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

**PRINCIPAL**



## DEPARTMENT OF BOTANY

Ref.:

Date: 27.11.2018

### Report on Certificate course in Horticultural Techniques- Floriculture 2018-19

Name of the Department	Botany
Name of the Event Organized	Certificate course
Title of the Event	Horticultural Techniques- Floriculture
Date of the Event Organized	August to October 2018
Name of the Convener	Smt. S.B.Patil
Participants	V semester Botany Students
No. of Participants	19
Name of the Expert with Designation	Smt. S.S.Sunnal and Dr. S.D.Payamalle
Contact Number & Address of the Expert	K.L.E.GI.Bagewadi College, Nipani
Objectives of the Event	1. One can learn about cultivation of Flowering plants 2. Plant improvement can be achieved 3.To train the students for entrepreneurship
Outcome of the Event	1. Students learnt about cultivation of Flowering plants 2. They learnt how Plant improvement can be achieved 3. They became trained to make floral decoration, bouquet.

  
HOD  
Head

Department of Botany  
K.L.E's G. I. B. College, Nipani.

  
IOAC Coordinator  
Co-ordinator IOAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



  
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G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





K.L.E. Society's

**G. I. Bagewadi Arts, Science, & Commerce College, Nipani**

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Website: [www.klegibnnpn.org](http://www.klegibnnpn.org)

Ph: 08338-220116, 220416

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

Ref. no.

Date: 04/01/2019

## NOTICE

### Department of English

All the degree students are hereby informed that Department of English is introducing a certificate course, "Language Functions", of three months duration for the year 2018-19. Interested students can enroll their names to Miss Suveda Kakade on or before 15<sup>th</sup> January, 2019. Details are as following:

#### Course Duration:

- Three Months(36 hours)

#### Eligibility:

- Degree (Arts, Science and Commerce)

#### Content of Course:

- Unit 1: Introduction of English language
- Unit 2: Functions of language
- Unit 3: Dialogue writing
- Unit 4: Speech writing
- Unit 5: Phonetic Symbols

#### Fee Structure:

For Registration: Rs.100/-

Convener : Mr. Raseed K. Mulla

Resource Person : Miss Suveda Kakade

*Mulla*  
HOD  
Head  
Department of English  
K.L.E.'s G. I. B. College, Nipani.

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Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



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Principal  
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K.L.E. Society's  
G. I. Bagewadi College, Nipani.  
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## DEPARTMENT OF ENGLISH

Application form for admission to Certificate Course in

"Language Functions"-2018-19

To,  
The HOD of English  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



### PARTICULARS OF APPLICANT

1. Full Name of the Applicant : Akshata M. Babannavar
2. Class : B.A. II Semester
3. Category : III (B)
4. Gender : Female
5. Address for correspondence: A/P: Shivaganewadi
6. Contact No. : 7829540172
7. E-mail ID : Akshata2143@gmail.com



Signature of Applicant

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## DEPARTMENT OF ENGLISH

Application form for admission to Certificate Course in

"Language Functions"-2018-19

To,

The HOD of English

K. L. E. Society's

G. I. Bagewadi College, Nipani.



### PARTICULARS OF APPLICANT

1. Full Name of the Applicant : Tanupri Ananda Vaddar
2. Class : B. A. II<sup>nd</sup> sem
3. Category : S.C.
4. Gender : Female
5. Address for correspondence: ALP - Kankadga Tal -  
Chikkodi Dist - Belgaovi
6. Contact No. : 7026003158.
7. E-mail ID : tanuprivaddar@gmail.com.

Signature of Applicant





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Ref. no.

Date: 16/01/2019

**“Language Functions”**

**Certificate Course**

**Roll call**

Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER
01	AKSHATA BABANNAVAR	BA II SEM	A1830401
02	HEENA KOUSAR F. MULLA	BA II SEM	A1830413
03	TRUPTI VADDAR	BA II SEM	A1830445
04	APSARA NAIKWADE	BA II SEM	A1830407
05	MEGHARAJ SHINGE	BA II SEM	A1830423
06	SAGAR KHOT	BA II SEM	A1830434
07	PREM SANADI	BA II SEM	A1830429
08	SHAHABAZ SUTAR	BA II SEM	A1830438
09	LAXMAN GADAKARI	BA II SEM	A1830419
10	KRISHNAT BHARMAL	BA II SEM	A1830417
11	AFIFA GIDDE	BA II SEM	A1830408
12	RASHMI SHARGAR	BA II SEM	A1830431
13	SEEMA GOTURE	BA II SEM	A1830437
14	NETRA HEGADE	BA II SEM	A1830424
15	SHRUTI TODKAR	BA II SEM	A1830442
16	RIYAN BAWA	BA II SEM	A1830432
17	JYOTI MANE	BA II SEM	A1830415
18	ROHINI PANDAV	BA II SEM	A1830433
19	MADINA TAJIM	BA II SEM	A1830421
20	POOJA PATIL	BA II SEM	A1830427
21	AKSHATA BAGEWAI	BA IV SEM	A1730402
22	SOUNDARYA KABBUR	BA IV SEM	A1730449
23	SNEHA N. MANGSULI	BA IV SEM	A1730448
24	ALMAS MULLA	BA IV SEM	A1730403



25	LAXMI CHAVAN	BA II SEM	A130420
26	ANNAPURNESHWARI MUDHALE	BA IV SEM	A1730405
27	SHIVANI CHANDAGADE	BA IV SEM	A1730446
28	PALLAVI KURADE	BA IV SEM	A1730429
29	MAYURI HARER	BA IV SEM	A1730423
30	RATNA B	BA IV SEM	A1730435
31	GANGAVVA HERAVENNAVAR	BA IV SEM	A1730413
32	RESHMA MUTNALE	BA IV SEM	A1730436
33	FIROZKHAN KHANU	BA IV SEM	A1730412
34	POOJA R. PATIL	BA IV SEM	A1730430
35	PALLAVI CHAUGULE	BA IV SEM	A1730428
36	SATYAVVA KOOTE	BA IV SEM	A1730445
37	SANDHYA BANSODE	BA IV SEM	A1730441
38	DEEPA SHINGADE	BA IV SEM	A1730411
39	SANDHYARANI CHAVAN	BA IV SEM	A1730442
40	RANI PATIL	BA VI SEM	A1630224
41	SHUBHANGI KESARKAR	BSc IV SEM	
42	DEVENDRA NAIKMANI	BA II SEM	
43	AKASH KHOT	BA II SEM	

*Ravula*  
**HOD**  
 Head  
 Department of English  
 K.L.E.'s G. I. S. College, Nipani.



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**Co-ordinator IQAC**  
 K. L. E. Society's  
 G. I. Bagewadi College, Nipani.

*M. Ball*  
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# LANGUAGE FUNCTIONS

## SYLLABUS

**Objectives:** To help the students to improve their communication skills and enable them to speak confidently, effectively and fluently in English.

UNIT	TOPIC	DURATION
I	<b>Introduction of English language</b> i. What is a language? ii. English as a global language iii. Error analysis	08 Hours
II	<b>Functions of language:</b> i. Starting a conversation with a stranger ii. Making requests iii. Expressing gratitude and responding to a gratitude iv. Complimenting and congratulating v. Apologizing and responding to an apology vi. Expressing sympathy vii. Seeking permission viii. Introducing: self, family members and friends ix. Leave taking and ending a conversation x. Request for repetition xi. Asking for information xii. Offering to help xiii. Complaining xiv. Asking about preference xv. Agreeing and disagreeing	08 Hours
III	<b>Dialogue writing:</b> i. Teacher and Students ii. Unexpected meet of your school friend iii. When you meet your school teacher after 10 years iv. Apologizing your friend for not attending his/her marriage v. Booking a room on phone vi. Enquiring about a hostel facilities vii. Doctor and patient viii. Shopkeeper and Customer ix. Giving the directions to a stranger	10 Hours
IV	<b>Speech writing:</b> i. Welcome note ii. Vote of thanks iii. Introduction of the chief guest	6 Hours
V	<b>Phonetic Symbols</b>	04 Hours

### References:

- Wren P. C. and Martin, H. *High school English Grammar and Composition*, S. Chand & Company: New Delhi.
- Balasubramanian. T. (2014). *A Textbook of English Phonetics*, Laxmi Publications:
- Bhatia, C. *A New Approach to Objective English*, Dhillon Publications: Kalkaj New Delhi.
- Kudari, M. B. (2010). *A Passage to English*, Chaitanya Offset Printers: Gadag.
- Murphy, R. *Essential English Grammar*: Cambridge University Press.



  
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**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

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**Ref.No.**

**Date: 06.01.2019**

**Department of English**

**Certificate Course 2018-19**

**Language Functions : BAEgC 2019**

**Workload**

**Total Hours- 36**

**Resource Persons :**

- 1. Prof. Raseed K Mulla : 18 hours**
- 2. Prof. Miss Suveda Kakade : 18 hours**

  
**Resource Person**



  
**HOD**

  
**Co-ordinator IQAC**  
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Ref.No.

Date: 06.01.2019

**Department of English**

**Certificate Course 2018-19**

**Language Functions : BAEgC 2019**

**Time table**

Date	Time	Date	Time
18/01/2019	4 to 5	03/03/2019	4 to 5
20/01/2019	4 to 5	05/03/2019	4 to 5
22/01/2019	4 to 5	08/03/2019	4 to 5
25/01/2019	4 to 5	10/03/2019	4 to 5
27/01/2019	4 to 5	12/03/2019	4 to 5
29/01/2019	4 to 5	15/03/2019	4 to 5
01/02/2019	4 to 5	17/03/2019	4 to 5
03/02/2019	4 to 5	19/03/2019	4 to 5
05/02/2019	4 to 5	22/03/2019	4 to 5
08/02/2019	4 to 5	24/03/2019	4 to 5
12/02/2019	4 to 5	26/03/2019	4 to 5
15/02/2019	4 to 5	29/03/2019	4 to 5
17/02/2019	4 to 5	31/03/2019	4 to 5
19/02/2019	4 to 5	05/04/2019	4 to 5
22/02/2019	4 to 5	07/04/2019	4 to 5
24/02/2019	4 to 5	09/04/2019	4 to 5
26/02/2019	4 to 5	12/04/2019	4 to 5
01/03/2019	4 to 5	14/04/2019	4 to 5

*Paula*  
HOD

Head  
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K.L.E.'s G. I. B. College, Nipani.



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01	AKSHATA BABANAVAR	BA II SEM	A1830401	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
02	HEENA KOUSAR F. MULLA	BA II SEM	A1830413	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
03	TRUPTI VADDAR	BA II SEM	A1830445	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
04	APSARA NAIKWADE	BA II SEM	A1830407	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
05	MEGHARAJ SHINGE	BA II SEM	A1830423	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
06	SAGAR KHOT	BA II SEM	A1830434	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
07	PREM SANADI	BA II SEM	A1830429	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
08	SHAHABAZ SUTAR	BA II SEM	A1830438	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
09	LAXMAN GADAKARI	BA II SEM	A1830419	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10	KRISHNAT BHARMAL	BA II SEM	A1830417	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>





Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER	18/01/19	19/01/19	20/01/19	21/01/19	22/01/19	23/01/19	24/01/19	25/01/19	26/01/19	27/01/19	28/01/19	29/01/19	30/01/19	31/01/19	01/02/19	02/02/19	03/02/19	04/02/19	05/02/19	06/02/19	07/02/19	08/02/19	09/02/19	10/02/19	11/02/19	12/02/19	13/02/19	14/02/19	15/02/19	
✓ 11	ARIFA GIDDE	BA II SEM	A1830408	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG	AG
✓ 12	RASHMI SHARGAR	BA II SEM	A1830431	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
✓ 13	SEEMA GOTURE	BA II SEM	A1830437	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	
✓ 14	NETRA HEGADE	BA II SEM	A1830424	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	
✓ 15	SHRUTI TODKAR	BA II SEM	A1830442	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST
✓ 16	RIYAN BAWA	BA II SEM	A1830432	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB
✓ 17	JYOTI MANE	BA II SEM	A1830415	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM
✓ 18	ROHINI PANDAV	BA II SEM	A1830433	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
✓ 19	MADINA TAJIM	BA II SEM	A1830421	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT
✓ 20	POOJA PATIL	BA II SEM	A1830427	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP







Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER	18/1/19	20/1/19	22/1/19	25/1/19	27/1/19	29/1/19	01/2/19	03/2/19	05/2/19	08/2/19	12/2/19	15/2/19
31	GANGAVVA HERAVENNAVAR	BA IV SEM	A1730413	Start	Start	Start	Start	Start	Start	Start	Start	Start	Start	Start	Start
32	RESHMA MUTNALE	BA IV SEM	A1730436	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD
33	FIROZKHAN KHANU	BA IV SEM	A1730412	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD
34	POOJA R. PATIL	BA IV SEM	A1730430	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
35	PALLAVI CHAUGULE	BA IV SEM	A1730428	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
36	SATYAVVA KOOTE	BA IV SEM	A1730445	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
37	SANDHYA BANSODE	BA IV SEM	A1730441	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
38	DEEPA SHINGADE	BA IV SEM	A1730411	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
39	SANDHYARANI CHAVAN	BA IV SEM	A1730442	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
40	RANI PATIL	BA VI SEM	A1630224	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP







Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER	17/02/19	19/02/19	22/02/19	24/02/19	26/02/19	01/03/19	03/03/19	05/03/19	08/03/19	10/03/19	12/03/19	15/03/19
01	AKSHATA BABANAVAR	BA II SEM	A1830401	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
02	HEENA KOUSAR F. MULLA	BA II SEM	A1830413	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
03	TRUPTI VADDAR	BA II SEM	A1830445	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
04	APSARA NAIKWADE	BA II SEM	A1830407	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
05	MEGHARAJ SHINGE	BA II SEM	A1830423	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
06	SAGAR KHOT	BA II SEM	A1830434	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
07	PREM SANADI	BA II SEM	A1830429	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
08	SHAHABAZ SUTAR	BA II SEM	A1830438	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
09	LAXMAN GADAKARI	BA II SEM	A1830419	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10	KRISHNAT BHARMAL	BA II SEM	A1830417	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>



Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER																		
11	AFIFA GIDDE	BA II SEM	A1830408	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG
12	RASHMI SHARGAR	BA II SEM	A1830431	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG
13	SEEMA GOTURE	BA II SEM	A1830437	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG
14	NETRA HEGADE	BA II SEM	A1830424	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG
15	SHRUTI TODKAR	BA II SEM	A1830442	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG
16	RIYAN BAWA	BA II SEM	A1830432	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG
17	JYOTI MANE	BA II SEM	A1830415	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG
18	ROHINI PANDAV	BA II SEM	A1830433	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG
19	MADINA TAJIM	BA II SEM	A1830421	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG
20	POOJA PATIL	BA II SEM	A1830427	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG	SRG





Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER	17/2/19	19/2/19	22/2/19	23/2/19	24/2/19	01/3/19	03/3/19	05/3/19	08/3/19	10/3/19	12/3/19	13/3/19
21	AKSHATA BAGEWAD†	BA IV SEM	A1730402	Agardi	Agardi	Agardi	Agardi	Agardi	Agardi	Agardi	Agardi	Agardi	Agardi	Agardi	Agardi
22	SOUNDARYA KABBUR	BA IV SEM	A1730449	Sabbur	Sabbur	Sabbur	Sabbur	Sabbur	Sabbur	Sabbur	Sabbur	Sabbur	Sabbur	Sabbur	Sabbur
23	SNEHA N. MANGSULI	BA IV SEM	A1730448	Sangra	Sangra	Sangra	Sangra	Sangra	Sangra	Sangra	Sangra	Sangra	Sangra	Sangra	Sangra
24	ALMAS MULLA	BA IV SEM	A1730403	Amulla	Amulla	Amulla	Amulla	Amulla	Amulla	Amulla	Amulla	Amulla	Amulla	Amulla	Amulla
25	LAXMI CHAVAN	BA II SEM	A130420	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
26	ANNAPURNESHWARI MUDHALE	BA IV SEM	A1730405	Mudhale	Mudhale	Mudhale	Mudhale	Mudhale	Mudhale	Mudhale	Mudhale	Mudhale	Mudhale	Mudhale	Mudhale
27	SHIVANI CHANDAGADE	BA IV SEM	A1730446	Chandagade	Chandagade	Chandagade	Chandagade	Chandagade	Chandagade	Chandagade	Chandagade	Chandagade	Chandagade	Chandagade	Chandagade
28	PALLAVI KURADE	BA IV SEM	A1730429	Kurade	Kurade	Kurade	Kurade	Kurade	Kurade	Kurade	Kurade	Kurade	Kurade	Kurade	Kurade
29	MAYURI HARER	BA IV SEM	A1730423	Harer	Harer	Harer	Harer	Harer	Harer	Harer	Harer	Harer	Harer	Harer	Harer
30	RATNA B	BA IV SEM	A1730435	Rathna	Rathna	Rathna	Rathna	Rathna	Rathna	Rathna	Rathna	Rathna	Rathna	Rathna	Rathna



Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER	17/2/19	19/2/19	22/2/19	23/2/19	24/2/19	01/03/19	03/3/19	05/3/19	08/3/19	10/3/19	12/3/19	13/3/19
31	GANGAVVA HERAVENNAVAR	BA IV SEM	A1730413	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good
32	RESHMA MUTNALE	BA IV SEM	A1730436	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD
33	FIROZKHAN KHANU	BA IV SEM	A1730412	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD	Alb. PFD
34	POOJA R. PATIL	BA IV SEM	A1730430	PPF	PPF	PPF	PPF	PPF	PPF	PPF	PPF	PPF	PPF	PPF	PPF
35	PALLAVI CHAUGULE	BA IV SEM	A1730428	Phoque	Phoque	Phoque	Phoque	Phoque	Phoque	Phoque	Phoque	Phoque	Phoque	Phoque	Phoque
36	SATYAVVA KOOTE	BA IV SEM	A1730445	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk
37	SANDHYA BANSODE	BA IV SEM	A1730441	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk
38	DEEPA SHINGADE	BA IV SEM	A1730411	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk	Shk
39	SANDHYARANI CHAVAN	BA IV SEM	A1730442	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
40	RANI PATIL	BA VI SEM	A1630224	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil





Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER
41	SHUBHANGI KESARKAR	BSc IV SEM	<del>17/2/19</del> <del>19/2/19</del> <del>22/2/19</del> <del>23/2/19</del> <del>24/2/19</del> <del>27/3/19</del> <del>28/3/19</del> <del>29/3/19</del> <del>30/3/19</del> <del>31/3/19</del> <del>3/4/19</del> <del>4/4/19</del>
42	DEVENDRA NAIKMANI	BA II SEM	<del>DN</del> <del>DN</del> <del>DN</del> <del>DN</del> <del>DN</del> <del>DN</del> <del>DN</del> <del>DN</del> <del>DN</del> <del>DN</del> <del>DN</del> <del>DN</del>
43	AKASH KHOT	BA II SEM	<del>Khot</del> <del>Khot</del> <del>Khot</del> <del>Khot</del> <del>Khot</del> <del>Khot</del> <del>Khot</del> <del>Khot</del> <del>Khot</del> <del>Khot</del> <del>Khot</del> <del>Khot</del>



*Prasad*  
**PRINCIPAL**  
 K. L. E. Society's  
*De* G. I. Bagarwal College, Nipani.

Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER	17/03/19	19/03/19	22/03/19	24/03/19	26/03/19	29/03/19	31/03/19	5/04/19	7/04/19	9/04/19	12/04/19	14/04/19
01	AKSHATA BABANNAVAR	BA II SEM	A1830401	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>	<del>AKSHATA BABANNAVAR</del>
02	HEENA KOUSAR F. MULLA	BA II SEM	A1830413	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>	<del>HEENA KOUSAR F. MULLA</del>
03	TRUPTI VADDAR	BA II SEM	A1830445	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>	<del>TRUPTI VADDAR</del>
04	APSARA NAIKWADE	BA II SEM	A1830407	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>	<del>APSARA NAIKWADE</del>
05	MEGHARAJ SHINGE	BA II SEM	A1830423	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>	<del>MEGHARAJ SHINGE</del>
06	SAGAR KHOT	BA II SEM	A1830434	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>	<del>SAGAR KHOT</del>
07	PREM SANADI	BA II SEM	A1830429	<del>PREM SANADI</del>	<del>PREM SANADI</del>	<del>PREM SANADI</del>	<del>PREM SANADI</del>	<del>PREM SANADI</del>	<del>PREM SANADI</del>	<del>PREM SANADI</del>	<del>PREM SANADI</del>	<del>PREM SANADI</del>	<del>PREM SANADI</del>	<del>PREM SANADI</del>	<del>PREM SANADI</del>
08	SHAHABAZ SUTAR	BA II SEM	A1830438	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>	<del>SHAHABAZ SUTAR</del>
09	LAXMAN GADAKARI	BA II SEM	A1830419	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>	<del>LAXMAN GADAKARI</del>
10	KRISHNAT BHARMAL	BA II SEM	A1830417	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>	<del>KRISHNAT BHARMAL</del>



Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER																		
11	AFIFA GIDDE	BA II SEM	A1830408	AG	17/3/19	AG	17/3/19	AG	17/3/19	AG	17/3/19	AG	17/3/19	AG	17/3/19	AG	17/3/19	AG	17/3/19	AG	17/3/19
12	RASHMI SHARGAR	BA II SEM	A1830431	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
13	SEEMA GOTURE	BA II SEM	A1830437	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G	S.R.G
14	NETRA HEGADE	BA II SEM	A1830424	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH	NH
15	SHRUTI TODKAR	BA II SEM	A1830442	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST	ST
16	RIYAN BAWA	BA II SEM	A1830432	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry	Ry
17	JYOTI MANE	BA II SEM	A1830415	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM	JM
18	ROHINI PANDAV	BA II SEM	A1830433	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
19	MADINA TAJIM	BA II SEM	A1830421	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT	MT
20	POOJA PATIL	BA II SEM	A1830427	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP







Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER																		
31	GANGAVVA HERAVENNAVAR	BA IV SEM	A1730413	17/3/19	17/3/19	19/3/19	22/3/19	24/3/19	29/3/19	29/3/19	31/3/19	5/4/19	7/4/19	9/4/19	12/4/19	14/4/19					
32	RESHMA MUTNALE	BA IV SEM	A1730436																		
33	FIROZKHAN KHANU	BA IV SEM	A1730412																		
34	POOJA R. PATIL	BA IV SEM	A1730430																		
35	PALLAVI CHAUGULE	BA IV SEM	A1730428																		
36	SATYAVVA KOOTE	BA IV SEM	A1730445																		
37	SANDHYA BANSODE	BA IV SEM	A1730441																		
38	DEEPA SHINGADE	BA IV SEM	A1730411																		
39	SANDHYARANI CHAVAN	BA IV SEM	A1730442																		
40	RANI PATIL	BA VI SEM	A1630224																		





Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER																	
41	SHUBHANGI KESARKAR	BSc IV SEM		<del>Khot DN</del>	<del>17/3/19</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>
42	DEVENDRA NAIKMANI	BA II SEM		<del>Khot DN</del>	<del>19/3/19</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>
43	AKASH KHOT	BA II SEM		<del>Khot DN</del>	<del>24/3/19</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>	<del>Shubha</del>



*DN*  
**Co-ordinator IQAC**  
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Date: 16/04/2019

**Result Sheet**  
**"Language Functions"**  
**Certificate Course**

Sl. No	NAMES OF THE STUDENTS	CLASS	REGISTER NUMBER	Marks Obtained
01	AKSHATA BABANAVAR	BA II SEM	A1830401	08
02	HEENA KOUSAR F. MULLA	BA II SEM	A1830413	06
03	TRUPTI VADDAR	BA II SEM	A1830445	05
04	APSARA NAIKWADE	BA II SEM	A1830407	09
05	MEGHARAJ SHINGE	BA II SEM	A1830423	05
06	SAGAR KHOT	BA II SEM	A1830434	08
07	PREM SANADI	BA II SEM	A1830429	09
08	SHAHABAZ SUTAR	BA II SEM	A1830438	08
09	LAXMAN GADAKARI	BA II SEM	A1830419	06
10	KRISHNAT BHARMAL	BA II SEM	A1830417	08
11	AFIFA GIDDE	BA II SEM	A1830408	09
12	RASHMI SHARGAR	BA II SEM	A1830431	06
13	SEEMA GOTURE	BA II SEM	A1830437	07
14	NETRA HEGADE	BA II SEM	A1830424	05
15	SHRUTI TODKAR	BA II SEM	A1830442	05
16	RIYAN BAWA	BA II SEM	A1830432	06
17	JYOTI MANE	BA II SEM	A1830415	05



18	ROHINI PANDAV	BA II SEM	A1830433	06
19	MADINA TAJIM	BA II SEM	A1830421	08
20	POOJA PATIL	BA II SEM	A1830427	06
21	AKSHATA BAGEWADI	BA IV SEM	A1730402	09
22	SOUNDARYA KABBUR	BA IV SEM	A1730449	09
23	SNEHA N. MANGSULI	BA IV SEM	A1730448	07
24	ALMAS MULLA	BA IV SEM	A1730403	08
25	LAXMI CHAVAN	BA II SEM	A130420	05
26	ANNAPURNESHWARI MUDHALE	BA IV SEM	A1730405	09
27	SHIVANI CHANDAGADE	BA IV SEM	A1730446	08
28	PALLAVI KURADE	BA IV SEM	A1730429	07
29	MAYURI HARER	BA IV SEM	A1730423	09
30	RATNA B	BA IV SEM	A1730435	09
31	GANGAVVA HERAVENNAVAR	BA IV SEM	A1730413	07
32	RESHMA MUTNALE	BA IV SEM	A1730436	08
33	FIROZKHAN KHANU	BA IV SEM	A1730412	07
34	POOJA R. PATIL	BA IV SEM	A1730430	07
35	PALLAVI CHAUGULE	BA IV SEM	A1730428	07
36	SATYAVVA KOOTE	BA IV SEM	A1730445	07
37	SANDHYA BANSODE	BA IV SEM	A1730441	08
38	DEEPA SHINGADE	BA IV SEM	A1730411	08
39	SANDHYARANI CHAVAN	BA IV SEM	A1730442	09
40	RANI PATIL	BA VI SEM	A1630224	09
41	SHUBHANGI KESARKAR	BSc IV SEM	S1717749	09
42	DEVENDRA NAIKMANI	BA II SEM	A1830411	05
43	AKASH KHOT	BA II SEM	A1830402	08

  
Signature of Teaching Faculty



  
HOD  
Head

Department of English  
K. L. E. Society's G. I. Bagewadi College, Nipani

  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



KLE Society's

# G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI

## Department of English



Handwritten decorative symbols on the left side.

# Certificate



This is to Certify that Mr/Ms, Shubhangi Kesarckar

of B.Sc IV Semester has Successfully Completed

a Certificate Course in "Language Functions" During the Year 2018-19

*Ravula*

Head  
Department of English

*D. D. D. D.*

Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani

*Uveda*

Resource Person



*M*

PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani



K.L.E. Society's

**G. I. Bagewadi Arts, Science & Commerce College, Nipani**

[Accredited at 'A' Grade by NAAC with 3.35 CGPA]

Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

Phone No: 08338-220116

## Department of English

### Report on Certificate Course (2018-19)

Considering the essence of English communication in this competitive world, the department of English conducted certificate course "Language Functions" during the academic year 2018-19.

On 4<sup>th</sup> January, 2020 a notice was issued by the department regarding the certificate course. 43 students joined the certificate course.

Mr.R K Mulla and Miss.Suveda Kakade were the resource persons of the certificate course Eventually, evaluation of the students was done through viva-voce method. The course lasted for 36 hours from 18<sup>th</sup> January, 2019 to 14<sup>th</sup> April, 2019. Later, certificates were awarded to the students.



HOD

Head

Department of English  
K.L.E.'s G. I. B. College, Nipani.

Co-ordinator IQAC

K. L. E. Society's  
G. I. Bagewadi College, Nipani.

Principal

K.L.E. Society's  
G. I. Bagewadi College, Nipani.

111 11



K.L.E. Society's

**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

College with potential for excellence

Ph: 08338-220116, 220415

Website: [www.klegibnpi.org](http://www.klegibnpi.org)

E-mail: [klegib\\_npi@yahoo.co.in](mailto:klegib_npi@yahoo.co.in)

Date- 29/07/2018

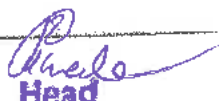
## DEPARTMENT OF PHYSICS

### NOTICE

All the B.Sc Students are hereby informed that Department of Physics is going to start Certificate Course in "DESIGNING OF BATTERY ELIMINATOR" for the year 2018-19. The interested students are informed to enroll their names in Department of Physics on or before 14/08/2018. Time table and Syllabus will be notified later.

PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI



  
Head  
Department of Physics  
K.L.E's G. I. B. College, Nipani

  
Co-ordinator IOAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



K.L.E.'s

G.L.BAGEWADI ARTS SCIENCE & COMMERCE COLLEGE, NIPANI

DEPARTMENT OF PHYSICS

Application form for admission to certificate course in "Designing of Battery Eliminator" for the year 2018-19.

To,  
HOD of Physics  
K.L.E.Society's G. I. Bagewadi college, Nippani.

PASSPORT  
SIZE PHOTO

PARTICULARS OF APPLICANT

1. Full Name of the Applicant-..... Shweta Jayakar .....
2. Class - ..... B.Sc Vsem .....
3. Category - ..... SC .....
4. Gender - ..... Female .....
5. Address for correspondence-..... Bhim Nagar, Shamanewadi  
..... Tq: chikodi Dist: Belgaum  
..... state: karnataka .....
6. Contact no. - ..... 8762340006 .....
7. E-mail ID - ..... shwetajayakar.10@gmail.com .....



  
Signature of Applicant

K.L.E.'s

G.LBAGEWADI ARTS SCIENCE & COMMERCE COLLEGE, NIPANI

DEPARTMENT OF PHYSICS

Application form for admission to certificate course in "Designing of Battery Eliminator" for the year 2018-19.

To,  
HOD of Physics  
K.L.E.Society's G. I. Bagewadi college, Nippani.

PASSPORT  
SIZE PHOTO

PARTICULARS OF APPLICANT

1. Full Name of the Applicant- Tejashwini Desai
2. Class - B. Sc Vsem
3. Category - III<sup>rd</sup> B.
4. Gender - Female
5. Address for correspondence- A/p - Dhorewadi  
Tal - Chikodi  
Dist - Belgum
6. Contact no. - 9901456419
7. E-mail ID - Tejaswini.d.2016@gmail.com



Desai  
Signature of Applicant



## DEPARTMENT OF PHYSICS

## CERTIFICATE COURSE IN PHYSICS

2018-19

**DESIGNING OF BATTERY ELIMINATOR****LIST OF STUDENTS**

SL.NO.	NAME OF THE STUDENTS	CLASS
1	PRACHI MAYANNA	B.Sc. V sem
2	PRAKASH CHOUGULE	B.Sc. V sem
3	PRAMOD KULKARNI	B.Sc. V sem
4	PRATEEBHA LATTHE	B.Sc. V sem
5	PRATIKSHA CHIPRE	B.Sc. V sem
6	PRAVEENI BABANNAVAR	B.Sc. V sem
7	PREETI KALLIMANI	B.Sc. V sem
8	RAJU SHINDE	B.Sc. V sem
9	RANI NAVALE	B.Sc. V sem
10	SAMINA MULLA	B.Sc. V sem
11	SANGEETA MORE	B.Sc. V sem
12	SANKALP KILLEDAR	B.Sc. V sem
13	SHRUTI TASILDAR	B.Sc. V sem
14	SHWETA RAVANNAVAR	B.Sc. V sem
15	SOURABH GURAV	B.Sc. V sem
16	SOURABH PATIL	B.Sc. V sem
17	SOURABH SANKAJE	B.Sc. V sem
18	SOUMYA GAJABAR	B.Sc. V sem
19	SUSHANT CHOUGULE	B.Sc. V sem
20	SUSHMITA PATTANKUDE	B.Sc. V sem
21	TANUJA WAGHAMODE	B.Sc. V sem
22	TEJASHWINI DEASI	B.Sc. V sem
23	VAISHALI ADAKE	B.Sc. V sem
24	VANITA MUNNOLE	B.Sc. V sem
25	VARSHA PATIL	B.Sc. V sem
26	VINOD HEGGANNA	B.Sc. V sem
27	VISHAL KABADIGE	B.Sc. V sem
28	VISHAL KAMATE	B.Sc. V sem
29	SWETA JAYAKAR	B.Sc. V sem
30	RAKESH TAKAMARE	B.Sc. V sem



*[Signature]*  
**Co-ordinator IOAC**  
 K. L. E. Society's  
 G. I. Bagewadi College, Nipani.

*[Signature]*  
**PRINCIPAL**  
 K. L. E. Society's  
 G. I. Bagewadi College, Nipani.

*[Signature]*  
**Head**  
 Department of Physics  
 K.L.E's G. I. B. College, Nipani.

# DEPARTMENT OF PHYSICS

## SYLLABUS

### UNIT - I

**Power supply:** Active components, passive components. 02 Hours

### UNIT - II

**Transformers:** Types, Step up transformer, step down transformer, Isolation transformer. Principle, Working of transformer, turn ratio. 04 Hours

### UNIT - III

**Diode:** Types, Working of Diode, Diode characteristics, Diode as a rectifier.

**Zener diode:** Working, Zener diode as voltage regulator, % of regulation.

**Rectifier:** Types, Half wave rectifier, Full wave rectifier, bridge rectifier  
Determination of  $V_{dc}$ ,  $I_{dc}$ , Voltage drop & Efficiency. 08 Hours

### UNIT - IV

**Filters:** Types, Capacitor input filter, Inductor input filter, LC filter. Efficiency, Ripple factor & PIV. 05 Hours

### UNIT - V

**POWER SUPPLY** – Block diagram, Explanation of each block. 05 Hours

Total 24Hours

### Practical's :

\*Designing of 5v dc power supply.


\*Designing of 12v dc power supply.



24Hours

Total: 48 Hours

  
Co-ordinator IOAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
Head  
Department of Physics.  
G.I.Bagewadi College, NIPANI

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

# DEPARTMENT OF PHYSICS

## TIME TABLE

DAY	TIME
Tuesday	4.00 pm to 5.00 pm
Wednesday	4.00 pm to 5.00 pm
Friday	4.00 pm to 5.00 pm
Saturday	4.00 pm to 5.00 pm

## Distribution of Syllabus

S. No.	Name of The Teacher	Units
1	Dr. M.B.Kothale	1
2	Dr R.G.Kharabe	2
3	Prof A.D.Tigadi	3&4
4	Prof.V.N.Chougule	5



*[Signature]*  
Head

Department of Physics  
K.L.E's G. I. B. College, Nipani.

*[Signature]*  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

*[Signature]*  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

K.L.E.'s

G.I.BAGEWADI ARTS SCIENCE & COMMERCE COLLEGE, NIPANI

DEPARTMENT OF PHYSICS

CERTIFICATE COURSE IN PHYSICS

2018-19


**DESIGNING OF BATTERY ELIMINATOR**

**MARK LIST**

SL.NO.	NAME OF THE STUDENTS	CLASS	Marks
1	PRACHI MAYANNA	B.Sc. V sem	20
2	PRAKASH CHOUGULE	B.Sc. V sem	22
3	PRAMOD KULKARNI	B.Sc. V sem	25
4	PRATEEBHA LATTHE	B.Sc. V sem	23
5	PRATIKSHA CHIPRE	B.Sc. V sem	18
6	PRAVEENI BABANNAVAR	B.Sc. V sem	15
7	PREETI KALLIMANI	B.Sc. V sem	18
8	RAJU SHINDE	B.Sc. V sem	19
9	RANI NAVALE	B.Sc. V sem	20
10	SAMINA MULLA	B.Sc. V sem	14
11	SANGEETA MORE	B.Sc. V sem	25
12	SANKALP KILLEDAR	B.Sc. V sem	25
13	SHRUTI TASILDAR	B.Sc. V sem	20
14	SHWETA RAVANNAVAR	B.Sc. V sem	18
15	SOURABH GURAV	B.Sc. V sem	17
16	SOURABH PATIL	B.Sc. V sem	18
17	SOURABH SANKAJE	B.Sc. V sem	19
18	SOUMYA GAJABAR	B.Sc. V sem	20
19	SUSHANT CHOUGULE	B.Sc. V sem	25
20	SUSHMITA PATTANKUDE	B.Sc. V sem	24
21	TANUJA WAGHAMODE	B.Sc. V sem	13
22	TEJASHWINI DEASI	B.Sc. V sem	14
23	VAISHALI ADAKE	B.Sc. V sem	15
24	VANITA MUNNOLE	B.Sc. V sem	18
25	VARSHA PATIL	B.Sc. V sem	19
26	VINOD HEGGANA	B.Sc. V sem	20
27	VISHAL KABADIGE	B.Sc. V sem	23
28	VISHAL KAMATE	B.Sc. V sem	24
29	SWETA JAYAKAR	B.Sc. V sem	22
30	RAKESH TAKAMARE	B.Sc. V sem	18

  
**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



  
**A. D. Tigadi**  
HEAD OF DEPT. PHYSICS



KLE Society's

**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI-591237**



(Reaccredited by NAAC at 'A' Level with CGPA 3.254)

# Certificate

DEPARTMENT OF PHYSICS

This is to certify that Mr/Ms. Sangeeta More

of B.Sc V Sem Semester has successfully Completed Certificate Course in

"Designing of Battery Eliminator during the year 2018-2019."

  
Head of the Department

  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.




  
PRINCIPAL  
K. L. Principal's  
G. I. Bagewadi College, Nipani.






**K.L.E. Society's**  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**  
Accredited at 'A' level by NAAC with CGPA 3.35  
(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)  
Website: [www.klegibnpn.edu.in](http://www.klegibnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

**REPORT ON CERTIFICATE COURSE ON "DESIGNING OF BATTERY ELIMINATOR"**

Name of the Department	Physics
Name of the Event Organized	Certificate Course
Title of the Event	Designing Of Battery Eliminator
Date of the Event Organized	14/08/2018
Name of the Convener	HOD of Physics
Participants	34
No. of Participants	Total 34 Teachers 4 Students 30
Name of the Expert with Designation	Dr.M.B.KOTHALE Dept of Physics, KLE'S G I Bagewadi College, Nipani
Contact Number & Address of the Expert	Cell No : 9449200570 Dept of Physics, KLE'S G I Bagewadi College, Nipani
Objectives of the Event	1.To understand components & functions of battery management system. 2.To get a secondary job to maximize the battery capacity.
Outcome of the Event	In this course, students will get a complete overview of electrochemistry, battery terminologies, charging & discharging for EV application & thermal management.
Photo Gallery	

  
**IOAC Coordinator**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
**HOD**  
Head  
Department of Physics  
K.L.E's G. I. B. College, Nipani.



  
**PRINCIPAL**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

**KLE's**

**G.I.Bagewadi Arts, Science & Commerce College, Nipani**

**Department of Commerce**

**NOTICE**

All the students of B.com VI Semester are hereby requested to enroll your names for Certificate Course on Tally with GST on or before 16/08/2018.

*For*  
*[Signature]*

**Head of Department  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.**



*[Signature]*  
**Principal  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.**

2

**K.L.E. Society's**  
**G. I. Bagewadi Arts, Science, & Commerce College, Nipani**  
**[Re-Accredited at 'A' Grade by NAAC with 3.35 CGPA]**

**Department of Commerce**

**Enrollment List for Certification Course 2018-19**

**Title: Tally 9 with GST**

**Class: B.com VI Semester**

Sl. No.	Reg. No	Name	Sign
1	C1630201	AISHWARYA SHIRISH KAMATE	
2	C1630202	AISHWARYA SHREYANSH SHENDURE	
3	C1630203	AKASH GHUGARE	
4	C1630206	AMAR PATIL	
5	C1630218	JYOTI ANNASAHEB SULTANNAVAR	
6	C1630222	KOMAL KERGUTE	
7	C1630227	NAMESHWARI PRAKASH KADAM	
8	C1630232	NIKITA SHEETAL MURABATTE	
9	C1634271	PRATIKSHA MAHAVEER PATIL	
10	C1630247	RUTUJA RAJENDRA JADHAV	
11	C1630250	SAMREEN MUSHTAQ TAHSILDAR	
12	C1630251	SANGEETA KAMATE	
13	C1630252	SANTOSH KHOT	
14	C1630254	SHAHA SRUSHTI SURAJ	
15	C1630263	SNEHAL CHILAI	
16	C1630264	SNEHAL RAVASAHEB KAMATE	
17	C1630266	SOURABH SUBHASH JABADE	
18	C1630273	SWETA CHOUGULE	
19	C1630274	TEJASHREE VEERENDRA PATIL	
20	C1630275	TEJASHRI RAMESH RAUT	
21	C1630276	TEJASHWINI RAJENDRA HANDE	
22	C1630281	YOGITA GANAPATI GHATAGE	

HOD  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

PRINCIPAL  
PRINCIPAL  
G.I. Bagewadi Arts, Science,  
Commerce College, Nipani.



K.L.E. Society's

G.I . Bagewadi Arts Science and Commerce College, Nipani – 591237

DEPARTMENT OF COMMERCE

**Certificate Course in Tally with GST**

**Syllabus**

Sl.No.	Topics	Duration
01	Introduction, Computerized accounting v/s Manual accounting, Architecture of Tally, Features of Tally 9.1, Tally Screen and Menus, Creating of Company, Creation of groups, Editing and Deleting groups	6 hrs
02	Creation of ledgers, Editing and Deleting ledgers, Introduction to vouchers, Voucher entry, payment-receipt-contra-journal voucher, Creation of stock categories, Creation of stock groups, Creation of stock items, features of stock items, editing and deleting stocks	06 hrs
03	Purchase order, stock voucher, sales order, creation of cost category, Budget and Control, generating and printing reports, Day books-Balance sheet, Trial balance, Profit & Loss account, Bank reconciliation statement	08 hrs
04	Activating Tally in GST, Setting up GST (Company Level, Ledger Level or Inventory Level), GST Taxes and Invoices, Understanding SGST, CGST and IGST, Creating GST Masters in Tally.	10 hrs

HOB  
Dept. of Commerce  
Head

Department of Commerce  
K.L.E's G. I. B. College, Nipani.



( Abhijeet .A. Tavakari )


KLE's  
G.I.Bagewadi Arts, Science & Commerce College, Nipani  
Department of Commerce

**Certificate Course in Tally with GST**

**TIME - TABLE**

Day	Time	Faculty
Monday	3.00 - 4.00 pm	Prof. A.A.Tavakari
Tuesday	3.00 - 4.00 pm	Prof.A.A.Tavakari
Wednesday	3.00 - 4.00 pm	Prof. A.A.Tavakari

**Duration: 30 Hours & 10 Hours Practical's.**

  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





**KLE'S**  
**G.I.BAGEWADI COLLEGE NIPANI**  
**Certificate Course in Tally with GST**

**Duration : 2 Hours**

**Marks : 50**

**Answer the following questions**

1. Explain in detail how to activate GST for your Company in Tally.ERP9  
10 marks
2. Explain in detail how to Create GST Ledgers - CGST-SGST-IGST in Tally.ERP9  
10 marks
3. The following Transaction has been done by the Swayam Education Pvt. Ltd. Based on this transaction compute the GST payable to the Government.
  - 1 Purchase from Raj Infotech-Local Dealer, 5 CDs of Antivirus Software @ Rs. 800 each, with Input GST rate @ 18%. i.e. Rs.. 720 - [ CGST (9%) Rs.360 and SGST (9%) Rs.360 ]
  2. Purchase from Microtek India Ltd.-Local Dealer , 10 Monitors @ Rs. 4000 each, with Input GST @ 28% i.e. Rs.11,200 – [ CGST (14%) Rs.5600 and SGST (14%) Rs. 5600. ]
  3. Purchase 2 'Hp-Laptop' @ Rs. 45,000 with Input IGST @ 18% i.e. Rs. 16,200.  
And Mi-Note 4 Mobiles @ Rs. 10,000 each with Input IGST 12% i.e. Rs.2,400 – in Cash from Outside State – West Bengal from Registered Dealer ( with GSTN – 22AAAAA0000A1Z5) .
  4. Sale of 5 Antivirus Software CDs @ Rs.1500 to Rajib Roy & Sons with output GST 18% i.e. Rs. 1350 – [CGST (9%) Rs. 675 and SGST (9%) Rs.675 ]
  5. Sale of 10 Monitors @ Rs.4500 , to H. Goenka Traders with Output GST @ 28% i.e. Rs. 12600 – [ CGST (14%) Rs. 6300 and SGST (14%) Rs. 6300 ]
  6. Sale of 2 'Hp-Laptop' @ Rs 50,000 with Output GST @ 18% i.e. Rs.18,000 [ CGST (9%) Rs.9,000 and SGST (9%) Rs.9,000 ] in Cash within State
  7. 2 Mi-Note 4 Mobiles Outside State @ Rs. 15,000 each with Output IGST 12% i.e. Rs. 3600 in Cash to a Party in Outside State i.e. Andhra Pradesh. 20 Marks
4. Discuss the reports generated in Tally. 10 marks





**EXAMINATION**

Class : B.com

Subject :

Roll No. : 48, C1630252

Date :

Marks Scored : 45/50

Test :

Signature of Valuer

Signature of the Invigilator with date

1. Explain how to activate GST for your company in Tally. ERP 9 ?

⇒ To use Tally.ERP 9 for GST compliance, you need to activate the GST feature. Once activated, GST related features are available in ledger, stock items, transactions and GST returns can be generated.

To activate GST :

1. Open the company for which you need to activate GST.
2. Press F11 > F3
3. Enable Goods and Service tax (GST) - yes.
4. Set GST details - yes

GST Details	
State	: Odisha
Registration type	: Regular
GETIN/ UIN	: 21AETP00783A125
Applicable from	: 1-Jul-2017
Set/Alter GST rate details ?	No
Enable GST classifications ?	No
Provide ITC/ Bond details ?	No

State:

Display the state you have selected for your company. Helps in local and interstate transactions



(81f)

If you change the state, it will be updated in the company details.

5. Specify the GSTIN/ UIN for the business. This can be printed in the Invoices as required. You can specify this later.

6. Specify Applicable from date. GST will be applicable for your transactions from this date onwards.

10 You can record the transactions using the ledgers with GST details, and print Invoices with GSTIN.

2. Explain in detail how to create GST ledgers - CGST, SGST, IGST in Tally. ERP 9.

⇒ To account for the different taxes to be paid under GST (Central tax, state tax, integrated tax, union territory tax and cess) you have to create a tax ledger for each tax type.

In our above practical examples, the following GST ledgers will be created:

- i. Input SGST - [State tax at the time of purchase locally]
- ii. Input CGST - [Central tax at the time of purchase locally]
- iii. Input IGST - [Integrated tax at the time of purchase from outside the state].
- iv. Output SGST - [State tax at the time of sales locally]
- v. Output CGST - [Central tax at the time of sales locally].
- vi. Output IGST - [Integrated tax on sale outside state].

Explanation: →

i. To create 'Input SGST' ledger:

1. Go to Gateway of Tally > Accounts info. > Ledgers > Create.
2. In under select duties & taxes.
3. Select ~~Duties~~ GST as the type of duty/tax.
4. Select state tax as the tax type.
5. Note: Percentage should be 0%.



Similarly, you can create ledgers of all above 5 GST ledgers (i to vi) by selecting the relevant tax type under GST.

II. To create 'Input CGST' ledger:

1. Go to Gate way of tally.
2. In under, select duties & taxes.
3. select GST as the type of duty/tax.
4. select central tax as the type.

Note: Percentage of calculation should be 0%.

III. To create 'Input IGST' ledger:

1. Go to Gate way of tally.
2. In under, select duties and taxes.
3. select GST as the type of duty/tax.
4. select Integrated tax as the tax type.

Note: Percentage of calculation should be 0%.

Similarly you can create ledgers of all above 5 GST ledgers by selecting the relevant tax type under GST.

3. In the books of Swagham Education Pvt. Ltd  
Computation of GST Payable to the Government

for purchases and payment	IGST	CGST	SGST
1. GST paid to party on assessable ₹ 4000 @ 18%.	-	360	360
2. GST paid to party on assessable ₹ 10,000 @ 28%.	-	5600	5600
3. IGST paid on value of ₹ 90,000 @ 18% and on ₹ 20,000 @ 12%.	18600		
4. TOTAL OF INPUT TAX:	18600	5960	5960
4. GST received on ₹ 7500 @ 18% GST	-	675	675
5. GST received on ₹ 45,000 @ 28% GST	-	6300	6300
6. GST received on ₹ 100,000 @ 18% GST	-	9000	9000
7. IGST received on the assessable value of ₹ 30,000 @ 12% IGST	3600		
TOTAL OF OUTPUT TAX:	3600	15,975	15,975



4. Discuss the report generated in Tally.

Universal Enterprises  
 Plot no. 113 & 114,  
 Industrial Estate  
 Hensur main road,  
 Bangalore  
 Profit and loss Account

Particulars	1.4.10 to 30.Sep.2010	01.Oct.2010 to 31.March.2011
<b>Trading Account:</b>		
Sales Account		
GST sales	1,29,19,600.00	1,28,52,247
Local sales	39,40,125	29,70,000
Sales @ 28%	33,85,675	43,64,125
Sales advt. services		288,000
Sales AMC for computers	93,800	32,750
Sales exports	30,000	70,000
Sales bill to make		500,000
	1,24,36,220.00	1,26,25,000
<b>End of sales:</b>		
Opening stock		
Add: Purchase	1,27,51,247	23,21,947
Less: closing stock	23,21,947	14,47,310
Distr	1,04,19,670	12,69,865
Direct expenses	16,820	25,09,360
Assembling charges	9120	17,680
Carriage towards	7500	7500
<b>GROSS PROFIT:</b>	<b>25,53,379</b>	<b>67,25,246</b>
<b>Income statement:</b>		
Indirect incomes	25,53,379	67,25,246
Indirect expenses		
Dep. on Fixed assets	475	602,622
Interest	1,58,736	55,044
operating expenses	603,235	174,822
Selling expenses	4,600	675,910
Employer ESI	4000	13,500
Employer PF	4411	4257
	8,20,586	16,23,667
<b>NET PROFIT:</b>	<b>17,32,783</b>	<b>40,88,813</b>





EXAMINATION



Class : B.Com III

Subject :

Roll No. : 70 (C1630276)

Date :

Marks Scored : 33/50

Test :

Signature of Valuer

Signature of the Invigilator with date

1] To use Tally ERP.9 for GST Compliance, you need to activate the GST feature once activated GST Related features are available in ledger, Stock items, and GST Returns can be generated to activate GST.

1. open the Company for which you need to activate GST.

2. press F11 & F3.

Company: Swayam Education Pvt Ltd.

Statutory and Taxation

Enable Goods & Service Tax (GST) ? Yes Enable Tax deducted

Set/alter GST details ? No at source (TOS)

Enable value added Tax (VAT) ? No Set/alter TOS

Set/alter VAT details ? No Enable tax collected

Enable Excise ? No at source (TOS)

Set/alter of a Service tax details ? No Set/alter TOS details

Tax Information.

PA Income tax No: AST P 507BJA

Corporate Identity (No): VAAAAABBBB CCC21

F1: Accounts F2: Inventory F3: Statutory F6: A dcl. one

3. Enable Goods and Service Tax (GST) - Yes.

4. Set/alter GST details - Yes

### GST details

State	: Karnataka
Registration type	: Regular
GSTIN/VIN	: 21ASTP50788A125
Applicable Form	: 1-July-2017
Set/alter GST rate details	: No
Enable GST Classifications	: No
provide LUT/Bond details	: No

State: Display the State you have selected your Company. Helps in identifying local and interstate transactions. If you change the state it will be updated in the Company details.

5. Specify the GSTIN/VIN for the business. This can be printed in the invoice as required. You can specify this later.

6. Specify applicable form date. GST will be applicable for your transactions from this date onwards.

You can record transactions using the ledgers with GST details and print invoices with GSTIN.



To Account for the different taxes to be paid under GST (Central tax, State tax, Union territory tax, integrated tax and cess). you have to create a tax ledgers for each tax type.

In our above practical Examples ---- the following GST ledgers will be created:

- i. Input SGST [State Tax at the time of purchase locality]
- ii. Input CGST [Central Tax at the time of purchase locality]
- iii. Input IGST [Integrated tax at the time purchase from outside state].
- iv. output SGST [State Tax at the time of Sale locality]
- v. output CGST [Central tax at the time of Sale locality]
- vi. output IGST [Integrated tax at the time of Sale in outside state].

### I To Create 'Input SGST' ledger

1. Go to Gateway of Tally > Accounts INFO > ledgers > create

XYZ Co Pvt. Ltd.	
Name: Input SGST	
(alias):	
Under: Duties & Taxes:	mailing Detailing
(Current Liabilities)	Tax Types
Type of duty: GST	Central tax
Tax, Tax type: State tax	Cess
Inventory values are? No	Integrated tax
allocated % of calculation? 0%	State tax
Rounding method: Not applicable	provide bank details: No
	<u>Tax Registration</u> or
Statutory information	PANITNO
opening Balance (on 1 April 2017):	

2. In under, Select Duties & Taxes.
3. Select GST as the type of duty/ tax.
4. Select State tax as the tax type.

Note: Percentage of calculation should be 0%. (Don't change) due to multiple tax state.

Similarly, you can create ledger of all above 5 GST ledgers (ii to vi) by selecting the relevant Tax type.

## II Under GST (create input CGST ledger)

xyz Co. Pvt Ltd	
Name: Input CGST	
(alias):	
Under: Duties & Taxes (Current Liabilities)	mailing details
Type of duty tax: GST	Tax type: Central taxes
Tax type: Central tax	less
Inventory value of one affected: No	Integrated tax
% of calculation: 0%	State tax
Rounding method: Not applicable	
Statutory information	provide bank details: No Tax registration det PANIT NO.
opening Balance (on 1-April-2017)	

1. Go To Gateway of Tally > Account info > ledger & create
2. In under, select Duties & Taxes
3. Select GST as the type of duty tax
4. Select Central tax as the type.

Note: Percentage of calculation should be 0%. (Don't change)





EXAMINATION

Class : B.com III Subject :  
 Roll No. : 70 (C1630276) Date :  
 Marks Scored : Test :

Signature of Valuer

Signature of the Invigilator with date

III. To Create 'Input IGST' ledger

1. Go to Gateway of Tally > Accounting Info & ledger & create

XYZ Pvt. Ltd	
Name: Input IGST	
(alias):	
Under: Duties & Taxes	mailing details
(Current Liabilities)	Tax type
Type of duty tax: GST	Central tax
Tax type: <u>Integrated tax</u>	Cess
Inventory value cred: 0%	Integrated tax
percentage of calculation: 0%	State tax
Rounding method: Not applicable	
Statutory information	provide bank details: No
	Tax Rq No
	PAN No
opening Balance (01-April-2017)	

2. In under, Select Duties & Taxes.

3. Select GST as the type of duty tax.

4. Select Integrated tax as the tax type.

Note: Percentage of calculation should be 0%. (Don't change) due to multiple tax states.



	IGST	CGST	SGST
3) For purchase and payment	IGST	CGST	SGST
For transaction 1: GST paid to party on assessable value of ₹ 4000 @ 18% GST is ₹ 720.		360	360
For transaction 2: GST paid to party on the assessable value of ₹ 40000 @ 28% GST is ₹ 11200		5800	5800
For transaction 3: IGST paid on the assessable value of ₹ 90,000 @ 18% GST is ₹ 16200 & ₹ 20,000 @ 12% GST is ₹ 2400 (16200 + 2400)	18600		
Total of input (IGST, CGST, SGST)	18600	5960	5960
For Sales	IGST	CGST	SGST
For transaction 6: GST Received From party on assessable of ₹ 7500 @ 18% GST ₹ 1350		675	675
For transaction 7: GST received from party assessable value of ₹ 45000 @ 28% GST ₹ 12600		6300	6300
For transaction 8: IGST received on the assessable value of ₹ 30,000 @ 12% IGST is ₹ 3600 for sale outside state	3600		
For transaction 9: GST received in the assessable value 100000 @ 18% GST is ₹ 18000		9000	9000
Total output GST (IGST, CGST, & SGST)	3600	15975	15975



K.L.E. Society's  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: [www.klegibnpn.edu.in](http://www.klegibnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

**REPORT ON: Online Certificate Course on Tally with GST**

Name of the Department	Commerce					
Name of the Event Organized	Certificate Course					
Title of the Event	Tally with GST					
Date of the Event Organized	20 August 2018					
Name of the Convener	Prof. Abhijeet A. Tavakari					
Participants	20					
No. of Participants	Total	20	Teachers	00	Students	20
Name of the Expert with Designation	Prof. Abhijeet A. Tavakari, Lecturer					
Contact Number & Address of the Expert	+919663718444 Hudco Colony, Nipani					
Objectives of the Event	1. To manage Accounting of any Company with GST Independently 2. To compute TDS & extract TDS Reports					
Outcome of the Event	Students developed their skills in managing GST Computation & Reports in Tally Erp9					
Photo Gallery						

  
**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
**Head**  
Department of Commerce  
K.L.E.'s G. I. B. College, Nipani.

  
**Principal**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



111 13



K.L.E. Society's

G.I. BAGEWADI ARTS, SCIENCE, COMMERCE COLLEGE, NIPANI

DEPARTMENT OF MARATHI VANGAMAY MANDAL

Ref.no

Date:28/12/2018 -19

NOTICE

**DEPARTMENT OF MARATHI**

Our departmet is conducting a certificate course from This Bsc-II,IV sem,B.Com II,IV sem ,B.A II,IV,VI semester students who are willing to join are informed to meet Prof: N.R.Kurade or The HOD of Marathi Dept before 1<sup>st</sup> weak of January 2019.

The Details are given below.

1. Course : Certificate Course : "vektimatv vikaas aani matrathi ~~Basha~~ Basha"
2. Duration of the course : 3 Month
3. Fees structure of the course : only Rs .~~100~~ 50

  
Sign of the HOD

Department of Marathi  
Head

Department of Marathi  
K.L.E's G. I. B. College, Nipani.



K.L.E.Society's  
G.I.Bagewadi Arts,Science and Commerce College, Nipani

**Department of Marathi**

Certificate Course

Vyaktimatv Vikas ani Matrubhasha

**Student List**

No.Sr.	Name of the Student	Class
1	Balaji Dhumal	B.com.II <sup>nd</sup> sem
2	Mahesh pratap	B.com.II <sup>nd</sup> sem
3	Nikunj Potadar	B.com.II <sup>nd</sup> sem
4	VinayakKhamakar	B.com.II <sup>nd</sup> sem
5	Vinod Muragale	B.com.II <sup>nd</sup> sem
6	Yashoda Kajave	B.Sc II <sup>nd</sup> sem
7	Anjali Patil	B.Sc II <sup>nd</sup> sem
8	Nikita Patil	B.Sc II <sup>nd</sup> sem
9	Pratiksha Katavale	B.Sc II <sup>nd</sup> sem
10	Dhanashri Janavade	B.Sc II <sup>nd</sup> sem
11	Snehal Patil	B.Sc II <sup>nd</sup> sem
12	Sana Mulla	B.Sc II <sup>nd</sup> sem
13	Rutuja chougule	B.Sc II <sup>nd</sup> sem
14	Shivani Sutar	B.Sc II <sup>nd</sup> sem
15	Mayuri Bhivase	B.Sc II <sup>nd</sup> sem
16	Abhishek Madival	B.Sc II <sup>nd</sup> sem
17	Sandesh Mali	B.Sc II <sup>nd</sup> sem
18	Aishwarya Nalavade	B.Sc IV <sup>th</sup> sem
19	Ashwini Patil	B.Sc IV <sup>th</sup> sem
20	Nutan Salunkhe	B.Sc IV <sup>th</sup> sem
21	Mrunali Salunkhe	B.Sc IV <sup>th</sup> sem
22	Vidya Jangade	B.Sc IV <sup>th</sup> sem
23	Aishwarya Mali	B.Sc IV <sup>th</sup> sem
24	Shubhangi Kesarakar	B.Sc IV <sup>th</sup> sem
25	Sonali Bharadi	B.Sc IV <sup>th</sup> sem



*Pratibha*  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani,

*M.B.*  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



K.L.E. Societ's  
G.I.Bagewadi Arta Science and Commerce College Nipani

**TIME – TABLE**

Department – Marathi

Class – Certificate Course

Year – 2018-19

Days										
Time	9:15-10:15		10:30	11:30	12:30		02:00	03:00	04:00	05:00
			11:30	12:30	01:30		03:00	04:00	05:00	06:00
Monday	<u>C.C.M.</u>						<u>C.C.M.</u>			
Tuesday	<u>C.C.M.</u>						<u>C.C.M.</u>			
Wednesday	<u>C.C.M.</u>						<u>C.C.M.</u>			
Thursday	<u>C.C.M.</u>						<u>C.C.M.</u>			
Friday										
Saturday										

  
H.O.D.  
Department of Marathi  
G. I. Bagewadi College, Nipani

  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



  
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Department of Marathi  
Certificate Course

Vyaktimatv Vikas ani Matrubhasha

Marks -20

Student Name -----

Class ----- Roll No. -----

Marks Obtained

Signature with date

- प्रश्न १) योग्य पर्यायासमोर अशी खुण करा.
१. व्यक्तिमत्व या शब्दासाठी इंग्रजीमध्ये .....हा शब्द वापरला जातो.  
१) personality २) person ३) personal ४) persona
  २. व्यक्तिमत्व विकासासाठी .....यांचा वाटा महत्वपूर्ण असतो.  
१) कुटुंब २) समाज ३) महाविद्यालय ४) तीनही पर्याय
  ३. भाषण कौशल्यासाठी .....बनले पहिजे.  
१) उत्तम वाचक २) पर्यटक ३) खेळाडू ४) शिक्षक
  ४. खालीलपैकी कोणता विषय निबंधाचा नाही.  
१) वर्णनात्मक २) कल्पनात्मक ३) निसर्गात्मक ४) व्यक्तिचित्रणात्मक
  ५. स्पर्धापरिक्षेसाठी .....भाषेतून वाचन अत्यंत महत्वाचे आहे.  
१) हिंदी २) इंग्रजी ३) मातृभाषा ४) आवडत्या
  ६. स्पर्धापरिक्षेसाठी व्याकरण महत्वाचे असते.ते आपल्याला मातृभाषेतून शिकण्यास सोपे ठरते.  
१)पूर्वार्ध बरोबर २) उत्तरार्ध बरोबर ३)पूर्ण चूक ४) पूर्ण बरोबर
  ७. कोणताही कार्यक्रम यशस्वी होण्यासाठी.....गरज असते.  
१) पूर्वनियोजन २) साहित्याची ३) प्रेक्षकांची ४) सजावटिची
  ८. खालीलपैकी कोणता भाग कार्यक्रमाचा नाही.  
१)कार्यक्रम पत्रिका २) स्वागतगीत ३) जेवण ४) आभार
  ९. सूत्रसंचालनाचा स्वतःवर .....आत्मविश्वास असणे गरजेचे असते.  
१) अहंकार २) अभिमान ३) अविश्वास ४) आत्मविश्वास
  १०. तुमचे व्यक्तिमत्व आणखी आकर्षक होण्यासाठी यात प्राविण्य मिळविणे आवश्यक आहे.  
१) संवादकलेत २) पोषाख ३) दिसण्यात ४) मोठ्यांच्या ओळखी



११. मूलाखतीत प्रश्नाचे उत्तर माहित नसल्यास तसे सांगावे. अन्यथा कहितरी खोटे बोलावे.  
१) पूर्वार्ध चूक २) उत्तरार्ध चूक ३) पूर्ण चूक ४) पूर्ण बरोबर
१२. .... श्रवण कौशल्य सुधारते.  
१) अवधानाने २) लिखानाने ३) अनवधानाने ४) मोबाईलने
१३. .... काळात मराठी भाषेची भरभराट झाली.  
१) शिवकाळात २) देवगिरीच्या यदव ३) महानुभाव ४) ब्रिटीश
१४. .... यामूळे जागतिक घडामोडी अन्य भाषिकापर्यंत पोहोचणे शक्य होते .  
१) पर्यटन २) भाषांतर ३) श्रवणाने ४) वरिलपैकी कोणताही नाही.
१५. भाषा एकप्रकारे व्यक्तिला घडवण्याचे कार्य करते. अशा भाषेच्या संपर्कातून इतरांचे विचार, भावना ग्रहण केले जातात.  
१) पूर्वार्ध चूक २) उत्तरार्ध चूक ३) पूर्ण चूक ४) पूर्ण बरोबर
१६. .... यामूळे लेखणात अडचणी येवू शकतात.  
१) शुध्द हस्ताक्षर २) न्यूनगंड ३) वाचन ४) अवधान
१७. विद्यार्थ्यांनी निबंध निवडताना घाई करावी. थोडाही विचार न करता निबंध निवडावा.  
१) पूर्वार्ध चूक २) उत्तरार्ध चूक ३) पूर्ण चूक ४) पूर्ण बरोबर
१८. दैनंदिन व्यवहारात पत्रलेखन अर्जलेखन आपण करतच असतो. पण आपले म्हणणे नेमकेपणे मांडता येणे हि कौशल्याची बाब आहे.  
१) पूर्वार्ध चूक २) उत्तरार्ध चूक ३) पूर्ण चूक ४) पूर्ण बरोबर
१९. मुलाखतीचा हेतू ..... समजून घेणे असतो.  
१) कर्तृत्व २) राहणीमान ३) सवयी ४) संपत्ती
२०. मराठी भाषा ही साहित्याच्या दृष्टीकोणातून वैभवसंपन्न भाषा आहे. तसेच ती भारतीय संस्कृतीचे दर्शन घडवते.  
१) पूर्वार्ध चूक २) उत्तरार्ध चूक ३) पूर्ण चूक ४) पूर्ण बरोबर



KLES

G.I. Bagewadi Arts, Science and Commerce College,  
Nipani-591237

Department of Marathi

मराठी वाङ्मय मंडळ

व्यक्तिमत्त्व विकास आणि मराठी भाषा

धावपळीच्या तसेच स्पर्धेच्या युगात आपण मातृभाषेला विसरत असलो तरी आत्मविश्वासात्मक ज्ञानाची भर करण्यासाठी मातृभाषा अत्यंत महत्वाची आहे. कारण कोणत्याही भाषेतूनच ज्ञानाचे संप्रेषण होत असते. मातृभाषा आणि व्यावहारिक भाषा अशा दोन भाषेसोबत मानवी जीवनात अनेक प्रांताचे लोक एकत्र येत असल्याने आपल्या मातृभाषेचा पूर्वावतार बदलून त्यात वेगवेगळ्या भाषेच्या शब्दांचे भर पडत आहे. आणि मराठी भाषेच्या भावना इंग्रजीचा पोषाख घालून मिरवत असताना आपल्याला माथ भाषेचा गंध कुठे तरि मंद होतोय असे जाणवले तरि आपली मराठी भाषा आख्या विश्वात बलाढ्य व शक्तीप्रदायीनी ज्ञानार्जनाची पवित्र खान आहे.


प्रत्येकाला घडविणारि एकच भाषा असते. ती म्हणजे मातृभाषा होय. तिचा अभिमान वाढून निस्वार्थपणे स्वावलंबी होण्यासाठी भाषेवर प्रभुत्व मिळवणे आजची गरज असून आत्मविश्वासाने स्पर्धेत उतरण्यासाठी लेखन, वाचन आणि बोलण्याचे कौशल्य असणे तितकेच महत्वाचे आहे.

विद्यार्थ्यांना कोणत्याही स्पर्धा परिक्षेसाठी संभाषणासाठी भाषेवर प्रभुत्व आणि बोलण्याचे कौशल्य यामुळे स्पर्धाकाचा आत्मविश्वास वाढतो म्हणून मातृभाषेबरोबर इतर भाषेचा अभ्यास कसा करावा हे समजेल. हा या कोर्साचा मुख्य उद्देश आहे.

व्यक्तिमत्त्व विकास आणि मराठी भाषा ( मातृभाषा )

- मराठीतून दैनंदिन व्यवहार (पत्र, निबंध लेखन भाषणाचे कौशल्य)
- संवादाची भाषाशैली (मुलाखतीची कुशलता, कार्यक्रमाचे नियोजन)
- प्रमाण भाषा व बोली भाषेचा परिणाम.
- सीमा भागातील कन्नड मराठीभाषा संमिश्रणाचा परिणाम.

  
Co-ordinator IOAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.





IV

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Ph .08338220116 ,220416 e-mail : [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

**K. L. E. SOCIETY'S  
G. I. BAGEWADI ARTS, SCIENCE AND  
COMMERCE COLLEGE,  
NIPANI.**

**DEPARTMENT OF CHEMISTRY**

***CERTIFICATE COURSE***

***IN CHEMISTRY***

***" WATER ANALYSIS "***

**FOR THE ACADAMIC YEAR**

**2017 -2018**





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**G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI.**

**DEPARTMENT OF CHEMISTRY**

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**CERTIFICATE COURSE IN WATER AND SOIL ANALYSIS**

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- ❖ Certificate sample copy.
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IQAC- Initiative

Date: 25/12/2017

**Department of chemistry**  
**Certificate course - Water Analysis**  
**Notice**

The department of Chemistry organising Certificate course for B.Sc. VI<sup>th</sup> Semester students on "Water analysis" which is jointly organised with water Analysis Research Centre at Rait Mitra Abhivruddhi Sangh (R) at Sankeshwar.

All the B.Sc. VI<sup>th</sup> Semester students are here by informed to enroll their names to Prof. Prashant T. Narawade for certificate course in Chemistry, on or before 30/12/2017.

  
Convener

  
HOD  
Department of Chemistry  
K.L.E. Society's G. I. Bagewadi College, Nipani.

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K. L. E. Society's  
G. I. Bagewadi College, Nipani.





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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2017-18**  
ENROLLMENT FORM

Mr./Miss.: Aarif Pathan of Class : B.Sc-VI sem Roll No.: 01  
Date: 26/12/2017  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

[Signature]  
Staff Incharge

[Signature]  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2017-18**  
ENROLLMENT FORM

Mr./Miss.: Abhijit Jadhav of Class : B.Sc-VI sem Roll No.: 02  
Date: 26/12/2017  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

[Signature]  
Staff Incharge

[Signature]  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2017-18**  
ENROLLMENT FORM

Mr./Miss.: Ajinkya Mahajan of Class : B.Sc-VI sem Roll No.: 03  
Date: 26/12/2017  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

[Signature]  
Staff Incharge

[Signature]  
HOD  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.





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### Department of Chemistry

#### CERTIFICATE COURSE IN WATER ANALYSIS - 2017-18

#### ENROLLMENT FORM

Date: 27/12/2017

Mr./Miss.: Ajit Khot of Class : B.Sc-II sem Roll No.: 04  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Aswade  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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### Department of Chemistry

#### CERTIFICATE COURSE IN WATER ANALYSIS - 2017-18

#### ENROLLMENT FORM

Date: 27/12/2017

Mr./Miss.: AKshata Bilikudki of Class : B.Sc-III sem Roll No.: 05  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Aswade  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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### Department of Chemistry

#### CERTIFICATE COURSE IN WATER ANALYSIS - 2017-18

#### ENROLLMENT FORM

Date: 27/12/2017

Mr./Miss.: AKshata patil of Class : B.Sc-IV sem Roll No.: 06  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Aswade  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.





**K.L.E. Society's**  
**G.I.Bagewadi Arts, Science & Commerce College Nipani**  
**Certificate Course 2017-18**

SR. NO.	REG.NO	NAME OF THE CANDIDATES	AMOUNT	SIGNATURE
✓1	S1517601	AARIF PATHAN	200	Aarifa
✓2	S1517602	ABHIJEET JADHAV	200	Abhi
✓3	S1517606	AJINK MAHAJAN	200	Ajink
✓4	S1517607	AJIT KHOT	200	Ajit
5	S1517608	AKSHATA BILIKUDRE	200	
6	S1517609	AKSHATA PATIL	200	Akshata
✓7	S1517610	AKSHAY HEGGANNA	200	Akshay
✓8	S1517612	AKSHAY PARIT	200	Akshay
9	S1517614	AMAR LANGOTE	200	Amar
✓10	S1517615	AMIT PATIL	200	Amit
✓11	S1517617	AMRUTA PATIL	200	Amruta
✓12	S1517618	ANAND PATIL	200	Anand
✓13	S1517619	ANIL BANNE	200	Anil
✓14	S1517622	ARCHANA KAMATE	200	Archana
✓15	S1517624	ASHWINI GADAKARI	200	Ashwini
✓16	S1517626	ASMITA BURJI	200	Asmita
✓17	S1517629	GOURI KHOT	200	Gouri
✓18	S1517631	HARSHADA NIGAVE	200	Harshada
✓19	S1517634	JYOTI CHAVAN	200	Jyoti
20	S1517637	KARISHMA APARAJ	200	Karishma
✓21	S1517640	LAXMI HONNAMANI	200	Laxmi
✓22	S1517641	LAXMI MALLOLI	200	Laxmi
✓23	S1517643	MADHURI HAWALDAR	200	Madhuri
✓24	S1517645	MAHANTESH PATIL	200	Mahantesh
✓25	S1517646	MANISHA PATHADE	200	Manisha
✓26	S1517648	MAYURI AWATE	200	Mayuri
✓27	S1517650	MHALU DIVATE	200	Mhalu
✓28	S1517651	NIKIT NIMBALKAR	200	Nikit
✓29	S1517652	NIKITA PAYAMALLE	200	Nikita
✓30	S1517653	NIKITA KAMANE	200	Nikita
✓31	S1517655	NITIN DESHMANE	200	Nitin
✓32	S1517659	POOJA SOUDE	200	Pooja
✓33	S1517660	POOJA YADAV	200	Pooja
34	S1517661	POOJA YADGUDE	200	
✓35	S1517662	POOJA PATIL	200	Pooja
✓36	S1517664	POONAM KAMBLE	200	Poonam
✓37	S1517666	PRANJALI POTADAR	200	Pranjali
✓38	S1517667	PRASHANT KAMBLE	200	Prashant
✓39	S1517668	PRASHANT HIREMATH	200	Prashant
✓40	S1517669	PRATIK PATIL	200	Pratik
✓41	S1517670	PRATIMA SADALAGE	200	Pratima
✓42	S1517671	PREETI PATIL	200	Preeti
✓43	S1517672	PREETI FIRGANNAVAR	200	Preeti
✓44	S1517673	PRIYA PATIL	200	Priya
✓45	S1517674	PRIYANKA MOHITE	200	Priyanka





46	S1517675	RAJESHWARI JANAWADE	200	<i>Raj</i>
47	S1517676	RANI KHOT	200	<i>Rani Khot</i>
48	S1517678	REKHA PATIL	200	<i>Rekha Patil</i>
49	S1517682	SADANAND SWAMI	200	<i>Sadanand</i>
50	S1517683	SALMABI NADAF	200	<i>Salmabi Nadaf</i>
51	S1517684	SAMMED PATIL	200	<i>Sammed Patil</i>
52	S1517685	SANDEEP GHASTE	200	<i>Sandeep Ghaste</i>
53	S1517686	SANMATI CHOUGALA	200	<i>Sanmati Chougala</i>
54	S1517687	SANMATI MUNNOLI	200	<i>Sanmati Munnoli</i>
55	<del>S1517689</del>	<del>SATYAM PATIL</del>	<del>200</del>	<del></del> X
56	S1517690	SHIVANAND PUJARI	200	<i>Shivanand Pujari</i>
57	S1517693	SHRADHA GURAV	200	<i>Shradha Gurav</i>
58	S1517694	SHREEMANTI PATIL	200	<i>S.A. Patil</i>
59	S1517696	SHRUTI PATIL	200	<i>Shruti Patil</i>
60	S1517698	SHRUTIKA PATIL	200	<i>Shrutika Patil</i>
61	S1517699	SHUBHANGI PARIT	200	<i>Shubhangi Parit</i>
62	S1517700	SHWETA KORUCHE	200	<i>Shweta Koruche</i>
63	S1517701	SNEHA KAGE	200	<i>Sneha Kage</i>
64	S1517702	SNEHAL KHOT	200	<i>Snehal Khot</i>
65	S1517704	SOURABH PANADE	200	<i>Sourabh Panade</i>
66	S1517705	SUHAS PATIL	200	<i>Suhas Patil</i>
67	S1517706	SUJIT PATIL	200	<i>Sujit Patil</i>
68	S1517707	SUNIL DHANG	200	<i>Sunil Dhang</i>
69	S1517708	SURAJ KOOT	200	<i>Suraj Koot</i>
70	S1517709	SWAPNAJA METRI	200	<i>Swapnaja Metri</i>
71	S1517710	SWATI KABADE	200	<i>Swati Kabade</i>
72	S1517711	SWAYAMBHU NAIK	200	<i>Swayambhu Naik</i>
73	S1517713	TEJASWINI HUCHCHANNAVAR	200	<i>Tejaswini</i>
74	S1517716	VANI BHAIRSHETTI	200	<i>Vani Bhairshetti</i>
75	S1517719	VIMAL TAKALE	200	<i>Vimal Takale</i>
76	S1517720	VINOD PATIL	200	<i>Vinod Patil</i>
77	S1517721	VIRUPAKSHA MANE	200	<i>Virupaksha Mane</i>
78	S1517722	VISHAL KOLE	200	<i>Vishal Kole</i>
79	S1517724	YOGESH SHETAKE	200	<i>Yogesh Shetake</i>
80	S1417268	Raju Chanagouda Patil (RE- ADM)	200	<i>Raju Patil</i>
81	S1517603	ACHAL MAGADUM	200	<i>Achal Magadum</i>
82	S1517611	AKSHAY HAVALDAR	200	<i>Akshay Havaladar</i>
83	S1517620	ANKITA MAGADUM	200	<i>Ankita Magadum</i>
84	S1517621	ARATI BHALEBHARDAR	200	<i>Arati Bhalabharde</i>
85	S1517623	ARCHANA KUMBAR	200	<i>Archana Kumbhar</i>
86	S1517625	ASHWINI SABALE	200	<i>Ashwini Sabale</i>
87	S1517630	HARSHA SHIRKOLI	200	<i>Harsha Shirkoli</i>
88	S1517632	VARSHA JABADE	200	<i>Varsha Jabade</i>
89	S1517636	KALYANI SHITOLE	200	<i>Kalyani Shitole</i>
90	S1517638	KARISHMA HALKARNI	200	<i>Karishma Halkarni</i>
91	S1517639	KAVERI KUMBAR	200	<i>Kaveri Kumbhar</i>
92	S1517642	LAXMI SHETTI	200	<i>Laxmi Shetti</i>

93	S1517644	MAHADEVI BHANASE	200	Given
94	S1517647	MARUTI GURAV	200	Given
95	S1517649	MAYURI JASUD	200	Given
96	S1517654	NILAM PATIL	200	Given
97	S1517656	PALLAVI KUMBAR	200	Given
98	S1517657	PALLAVI NAGAVE	200	Given
99	S1517658	SHIVANI PATIL	200	Given
100	S1517665	PRAGATI PATIL	200	Given
101	S1517679	RESHMA CHOUGULE	200	Given
102	S1517680	RUSHIKESH MAJAGE	200	Given
103	S1517688	SANOBAR MULLA	200	Given
104	S1517692	SHARADDHA SANGANE	200	Given
105	S1517697	SHRUTI CHONCHANNAVAR	200	Given
106	S1517703	SONALI NAIK	200	Given
107	S1517712	TEJASHREE MANGAVATE	200	Given
108	S1517714	TRUPTI KAMBLE	200	Given
109	S1517715	UZMA MULLA	200	Given
110	S1517717	VARSHA KENAWADE	200	Given
111	S1517718	VIJAYKUMAR KAROSHI	200	Given
112	S1517723	YASHODHA HUNAKUMPI	200	Given
113	S1520029	MEGHARANI PATIL (NW ADM)	200	Given
114	S1517605	AISHWARYA MODI	200	Given
115	S1517627	CHITANYA CHAVAN	200	Given

80 PCM - For water analysis R.O. 1 to 80  
 33 CBZ - For Soil Analysis R.O. 81 to 113  
 No. of students admitted = 113.

$$113 \times 200 = 22,600/-$$

$$\text{Total amount collected} = 22,600/-$$

*Deswale.*  
 Convenor

*M. B. Deswale*  
 Principal  
 G. I. Bagewadi Arts, Science &  
 Commerce College, NIPANI.

*[Signature]*  
 Head  
 Department of Chemistry  
 K.L.E's G. I. B. College, Nipani.





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Website: www.klezibnnpn.edu.in E-mail: klezibnnpn@yahoo.co.in Ph.: 08338-220116

### IQAC INITIATIVE

## Department of Chemistry Certificate Course in Water Analysis Syllabus for Water Analysis

### Theory

(16 Hours)

#### Chapter I

#### Introduction

(3 Hours)

- 1.1 Environment and Environmental Pollution
- 1.2 Elements of environment
- 1.3 Types of pollution & pollutant
- 1.4 Water as natural resource

#### Ref

- 1) Global warming and environmental laws by H.V. Jadhav, Dr. S. H. Purohit.

#### Chapter II Water Pollution

(3 Hours)

- 2.1 Introduction water pollution & its definition
- 2.2 Physical and chemical properties of water
- 2.3 Classification of water pollutants
- 2.4 Sources of water pollution

#### Ref.

Water pollution by Dr. Anuradha Salpekar.

#### Chapter III Waste Water Treatment

(4 Hours)

- 3.1 Characteristics (parameters) of waste water
- 3.2 Treatment of water pollution
- 3.3 Preprimary treatment
- 3.4 Primary treatment
- 3.5 Secondary treatment
- 3.6 Tertiary treatment

#### Ref

- 1) Environmental pollution Analysis by S.M. Khopkar.

#### Chapter IV Instrumentation for Water Analysis

(6 Hours)

- 4.1 TDS rating for various types of water
- 4.2 Determination of pH and electrical conductivity of water sample
- 4.3 Estimation of Na and K present in water sample by using flame photometry
- 4.4 Estimation of chloride in water sample
- 4.5 Estimation of carbonate and bicarbonate present in water sample
- 4.6 Estimation of calcium and magnesium in water sample

#### Ref

- 1) Environmental pollution Analysis by S.M. Khopkar.

  
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K. L. E. Society's  
G. I. Bagewadi College, Nipani.





K.L.E. Society's

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**Practicals**

**(16 Hours)**

Sl. No.	Name of the experiment
1	To determine Total Alkalinity of Water
2	To determine the total hardness of the water sample
3	To determine pH and conductance of waste water
4	To determine Dissolve oxygen of waste water
5	To determine Chemical oxygen demand of waste water
6	To determine Acidity of Water
7	To determine TS, TSS, TDS of water
8	To determine salinity of the given water sample
9	To determination of pH, moisture and humidity of soil
10	To determine carbonate of soil
11	To determine gypsum of soil

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## DEPARTMENT OF CHEMISTRY

### Certificate Course (Water Analysis)

2017-18

### STAFF LIST

- Dr. A. S. Jaganure
- Dr. S. B. Solabannavar
- Prof. G. B. Kumbar
- Mr. P. T. Narawade
- Miss. P. G. Soude
- Miss. P. P. Shedbal
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Date 09/03/2018

## Certificate course in Chemistry


The department of chemistry organizing certificate courses for B.Sc.VI semester students on "Soil Analysis and Water Analysis" which is jointly organized with the Soil and Water Analysis Research center at Rait Mitra Abhvivrudhi Sangh, ( R ), at Sankeshwar.

All the B.Sc.VI Semester students are hereby informed to carry out the Soil and Water Analysis, at Rait Mitra Abhvivrudhi Sangh, (R) Research center, Sankeshwar, from 13/03/2018 to 19/03/2018 with the following chemistry staff in charge as per the following schedule from 11a.m. to 4.30 p.m.

Day	Students Roll. No	Total	Date	Staff Incharge
Tuesday	98 to 115	18	13/03/2018	Shri.P.T.Narawade Miss. D.S Kanagali.
Wednesday	45 to 62	18	14/03/2018	Shri.S.M.Narawade Miss. D.S Kanagali.
Thursday	63 to 80	18	15/03/2018	Shri. G.B.Kumbar Miss. D.S Kanagali.
Friday	1 to 22	22	16/03/2018	Miss.P.G.Soude Miss. D.S Kanagali.
Saturday	23 to 44	22	17/03/2018	Dr. A.S.Jaganure Miss. D.S Kanagali.
Monday	81 to 97	17	19/03/2018	Miss.P.P.Shedbal Miss. D.S Kanagali..

The certificate course is a part of curriculum and is compulsory for B.Sc.VI Semester students.

  
Convener

  
HOD  
Chemistry  
Department of Chemistry  
K.L.E. Society's G.I. Bagewadi Arts, Science & Commerce College, Nipani

  
Principal  
PRINCIPAL  
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G. I. Bagewadi College, Nipani.



**DEPARTMENT OF CHEMISTRY**  
**Certificate Course in Water Analysis**

**Syllabus Scheme**

Sr. No.	Paper No.	Total workload	Max. Marks	Internal marks	Total marks
1.	Paper – Theory	16 Hours	40	10	50
2.	Paper - Practical	16 Hours	40	10	50
<b>Total Marks</b>					<b>100</b>

**Note :**

- 1. Internal Assessment for theory shall be based on performance in unit test & assignment.**
- 2. Internal Assessment for practical shall be based on followings.**
  - i) Field Visit : 10 Marks**
  - ii) Record Book : 05 Marks**
  - iii) Viva Voce : 05 Marks**



  
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**DEPARTMENT OF CHEMISTRY**  
**CERTIFICATE COURSE (Water Analysis)**  
**TIME TABLE 2017-2018**

DAY	THEORY ( 10am – 11pm)	PRACTICAL ( 12pm – 4pm)
07/01/2018	PTN	ASJ
14/01/2018	PGS	SBS
21/01/2018	SMN	PPS
28/01/2018	PPS	GBK
04/02/2018	GBK	PTN
11/02/2018	PTN	PGS
18/02/2018	PGS	ASJ
25/02/2018	GBK	SBS
04/03/2018	SBS	PPS
11/03/2018	ASJ	PTN
18/03/2018	Theory test paper	
25/03/2018	Practical test paper	

  
Convenor

  
Head of Department  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.

  
Principal  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





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**DEPARTMENT OF CHEMISTRY**  
**IQAC INITIATIVE**

**WATER ANALYSIS**  
**Marks Statement**

R.I NO.	NAME OF THE CANDIDATES	Marks	RI NO.	NAME OF THE CANDIDATES	Marks	RI NO.	NAME OF THE CANDIDATES	Marks
1	AARIF PATHAN	18	18	HARSHADA NIGAVE	14	35	POOJA PATIL	15
2	ABHIJEET JADHAV	17	19	JYOTI CHAVAN	15	36	POONAM KAMBLE	14
3	AJINK MAHAJAN	14	20	KARISHMA APARAJ	16	37	PRANJALI POTADAR	18
4	AJIT KHOT	13	21	LAXMI HONNAMANI	17	38	PRASHANT KAMBLE	19
5	AKSHATA BILIKUDRE	15	22	LAXMI MALLOLI	18	39	PRASHANT HIREMATH	16
6	AKSHATA PATIL	19	23	MADHURI HAWALDAR	19	40	PRATIK PATIL	17
7	AKSHAY HEGGANA	20	24	MAHANTESH PATIL	20	41	PRATIMA SADALAGE	19
8	AKSHAY PARIT	20	25	MANISHA PATHADE	15	42	PREETI PATIL	16
9	AMAR LANGOTE	15	26	MAYURI AWATE	12	43	PREETI FIRGANAVAR	17
10	AMIT PATIL	14	27	MHALU DIVATE	13	44	PRIYA PATIL	16
11	AMRUTA PATIL	16	28	NIKIT NIMBALKAR	20	45	PRIYANKA MOHITE	08
12	ANAND PATIL	18	29	NIKITA PAYAMALLE	14	46	RAJESHWARI JANAWADE	16
13	ANIL BANNE	19	30	NIKITA KAMANE	16	47	RANI KHOT	17
14	ARCHANA KAMATE	16	31	NITIN DESHMANE	16	48	REKHA PATIL	16
15	ASHWINI GADAKARI	15	32	POOJA SOUDE	17	49	SADANAND SWAMI	15
16	ASMITA BURJI	17	33	POOJA YADAV	18	50	SALMABI NADAF	14
17	GOURI KHOT	19	34	POOJA YADGUDE	13	51	SAMMED PATIL	12





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**IQAC INITIATIVE**

RI. No.	NAME OF THE CANDIDATES	Marks	RoI. NO.	NAME OF THE CANDIDATES	Marks
52	SANDEEP GHASTE	14	74	VANI BHAIRSHETTI	19
53	SANMATI CHOUGALA	16	75	VIMAL TAKALE	17
54	SANMATI MUNNOLI	17	76	VINOD PATIL	16
55	SATYAM PATIL	18	77	VIRUPAKSHA MANE	18
56	SHIVANAND PUJARI	19	78	VISHAL KOLE	14
57	SHRADHA GURAV	16	79	YOGESH SHETAKE	17
58	SHREEMANTI PATIL	13	80	Raju Chanagouda Patil	16
59	SHRUTI PATIL	12			
60	SHRUTIKA PATIL	16			
61	SHUBHANGI PARIT	18			
62	SHWETA KORUCHE	17			
63	SNEHA KAGE	19			
64	SNEHAL KHOT	14			
65	SOURABH PANADE	16			
66	SUHAS PATIL	20			
67	SUJIT PATIL	14			
68	SUNIL DHANG	20			
69	SURAJ KOOT	18			
70	SWAPNAJA METRI	18			
71	SWATI KABADE	19			
72	SWAYAMBHU NAIK	19			
73	TEJASWINI HUCHCHANNAVAR	20			

  
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*Succes*  
- 28/6/18 -



Since 1916



Certificate Course in Chemistry

Project Report on

WATER ANALYSIS

Submitted by:

Mr / Miss...  *Snehal D. Khot*  .....

of B.Sc. VI Semester Chemistry .

To,

THE DEPARTMENT OF CHEMISTRY

*Snehal*  
Signature  
Of Student

*[Signature]*  
Signature of  
Staff Incharge

*[Signature]*  
HOD  
(Dr. A. S. JAGANURE)  
Head of Department of Chemistry  
KLE'S G. I. Bagewadi College, Nipani.

*[Signature]*  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



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Nipani-591237  
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Department of Chemistry

2017-18

## CERTIFICATE

This is to certify by Mr/ Miss.  Snehal A. Khot   
B.Sc. VI Semester Student has satisfactorily completed the project "Water  
Analysis" in Chemistry prescribed by the Rani Channamma University, Belagavi  
for B.Sc. VI Semester of this college in the year 2017-18.

  
Staff Incharge  
Examiner

  
Convener

  
(Dr. A. S. JAGANURE)  
Head of Department  
KLE'S G. I. Bagewadi College, Nipani.



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## ACKNOWLEDGEMENT

We the B.Sc. VI Semester student of chemistry, wish to thank our teacher Prof. A.S. Jagnure, Head of the department of chemistry, Prof. G.B. Kumbhar, Prof S.B.Solbannavar, , Prof. Prashant Narwade and Prof. Priyanka Soudi Prof. Padamini Shedabal who has encouraged and worked with us in completing this project.

Our teachers of chemistry Department were well co-operative and gave us more relevant information about "WATER ANALYSIS". And special thanks to Prof. Dr. M. C. Hosur Chief Administrator and Scientific Advisor, Rait Mitra Krishi Abhivrudhi Singh , Sankeshwar. Who guided us to know more about the analysis and to conduct the practicals. Lastly it was a very unforgettable and highly memorable study tour to all of us.

## DECLARATION

Mr./Miss. Snehal D. Khot of  
B.Sc. VI Semester Studying in K.L.E's " G.I. Bagewadi College, Nipani. Hereby  
declare that this project is genuine and original work of study prepared by me. It  
is based on the data and information collected by me. To the best of my  
knowledge and belief, the matter presented in this report has not been copied  
from any report submitted to Rani Chanamma University, Belagavi, to  
Complete B.Sc.

I Hope this report will serve the purpose.

Place: Nipani

Signature

Date:

( Snehal D. Khot )

Name: Snehal D. Khot



## Introduction:

Water is elixir of life. Every living organism needs water. Without water organisms cannot survive. Chemically water is made up of two moles of Hydrogen and One Mole of Oxygen. And purified water is very important for healthy life. So we need pure water. Pure water has not colour and no test.

- a) Above  $100^{\circ}$  C it occurs in the form of water vapour or steam.
- b) Below  $0^{\circ}$  C it forms ice
- c) Between  $0-100^{\circ}$  C it occurs in the form of liquid.

According to Kabisch and Hanjmerling (1982), our planet Earth contains 537.6 million sq. kms of water. Of which, only about 5.376 million sq. kms (approx) is available for human use.

Of the natural elements, water is considered to be of prime importance to the existence of man, plants and animals. It also plays an essential role in agriculture, industries, pisciculture, forestry and navigation.

Eutrophication of water, which in simplest terms, is pollution of water or increase in nutrients, results in the degradation of its quality accompanied luxuriant growth of algae or macrophytes. This is recognized as a major problem all around the globe. Weber (1907- in Zutshi, 1981) first introduced the concept of eutrophication to describe the nutrient contents determining the flora of German peat bogs. Nauman (1907) in Zutshi, 1981) used the term oligotrophic, mesotrophic and eutrophic, according to the concentration of phosphorus, nitrogen and calcium along with the associated density of phytoplankton population.

The need of water is increasing day by day invariably due to increasing population urbanization etc. Simultaneously the quality of standing water is degrading which affects the flora particularly the plankton. A glance at an earlier study reveals that plankton grow in water of particular trophic levels. Hence some

of these planktons may act as indicators of pollution. Some plankton is capable of tolerating pollution load.

The problem of pollution of water resources due to the discharge of wastes of domestic and industrial origin is a great threat on the international scale. Added to this is the surface run off from the heavily fertilized agricultural fields, which after reaching the water body cause pollution. Thus the reliable and economical methods to assess water pollution are needed. Any impairment caused by pollution has its effect on the aquatic biota. Therefore, a continuous monitoring of the aquatic biota reflects the conditions existing in the aquatic environment and the data can be utilized for the biological monitoring of water pollution.

The problem of water pollution in India is very critical as India is a developed country among the developing and developing country among the developed. Though a lot of work has been done on the Indian waters, the extensive studies are few. The pioneer workers in the study of the Indian waters are Ganapati (1940), Singh (1960), Sreenivasan (1972) and Zafar (1964, 1967).

In India the total water available for use is about 1900 cubic meters. Of this, about 86% is in the form of rivers, streams, lakes and ponds (Kiran, 1992). Karnataka is one of the agriculturally and industrially leading states in India. Industrial effluents, treated or untreated, are dumped into the natural water bodies causing irreparable damage to the aquatic biota. Karnataka state is known for its large number of water bodies like small

## *Composition of water*

Everyone is very familiar with water. We observe it as rain and snow and can see it in the oceans, lakes, rivers, and streams. Although the water in our bodies is not as apparent, recognize that most of our weight is made up of water. In fact, the normal adult is made up of approximately 60% water. Thus, water is essential for life.

Water is made up of hydrogen ions ( $H^+$ ) linked to hydroxyl ions ( $OH$ ) to form  $H_2O$ . The molecular formula for water is  $H_2O$ . From this formula and the atomic weights for hydrogen and oxygen you can calculate that the molecular weight of water is approximately 18 grams.

*Note: The atomic weight of hydrogen (H) is 1 gram and the atomic weight of oxygen (O) is 16 grams.*

18 grams of water can also be referred to as being 1 mole of water. A mole of a substance (e.g. water), contains a particular number of molecules. That number is  $6.02 \times 10^{23}$  and is often referred to as Avogadro's number; named after Amedeo Avogadro, an Italian physicist.

Recognize that  $6.02 \times 10^{23}$  is in scientific notation and represents a huge number: 602 billion trillion. Written in standard form, this number is: 602,000,000,000,000,000,000,000. Thus, a mole of water which weighs 18 grams contains a huge number of water molecules.

18 grams or 1 mole of water occupies a volume of 18 milliliters. Therefore, 1000 milliliters (1 liter) of water contains 55.6 moles of water (1000 milliliters / 18 milliliters per mole)

Water molecules exist in the form of  $H_2O$ ; hydrogen ions ( $H^+$ ) linked to hydroxyl ions ( $OH$ ). A few of these water molecules split apart to create free  $H^+$  and  $OH^-$  ions. Pure, deionized water contains the same number of  $H^+$  ions and  $OH^-$  ions. One liter of pure, deionized water contains  $1 \times 10^{-7}$  moles of  $H^+$  and  $1 \times 10^{-7}$  moles of  $OH^-$  ions. This is

still a very large number of free hydrogen ions, namely:  $6.02 \times 10^{16}$  or 60,200,000,000,000,000.

---

### Natural sources of water pollution

Natural processes and animals cause the following:

- **Organic Matter/Low D.O:** There are a lot of cypress swamps, floatant marshes, salt marsh wetlands, and animals, in the Barataria and Terrebonne Watersheds. The trees and marsh plants naturally produce a lot of organic matter from their leaves, stems, and roots. When these plant parts fall off or get washed into a waterbody by storm water they can lower dissolved oxygen.
- **Nutrients:** These are substances required by plants and animals to grow. The nutrients that have a large impact on the natural balance of waterways are nitrogen and phosphorus. These nutrients cause plankton to grow excessively. Plankton also die excessively and this puts a large amount of organic matter into the water which results in lower dissolved oxygen. Under natural situations nutrients are recycled from plant to animal, plankton to fish. Animals that live in water in large numbers, like ducks and geese, put manure directly into the water causing pollution.
- **Sediment:** In a natural condition, sediment in the water is usually related to large storm events, like hurricanes. Sometimes it is hard to tell whether the sediment is natural or from humans unless you look at aerial photographs and land use patterns.
- **Disease-Causing Organisms:** Animals that live on water in large numbers, such as ducks and geese, and put manure directly into the water cause pollution that can contaminate the water with disease-causing organisms.

## Industrial waste

*Industries cause huge water pollution with their activities. These come mainly from:*

*Sulphur - This is a non-metallic substance that is harmful to marine life.*



*Asbestos - This pollutant has cancer-causing properties. When inhaled, it can cause illnesses such as asbestosis and some types of cancer.*

*Lead and Mercury - These are metallic elements and can cause environmental and health problems for humans and animals. It is also poisonous. It is usually very hard to clean it up from the environment once it gets into it because it is non-biodegradable.*

*Nitrates & Phosphates- These are found in fertilizers, and are often washed from the soils to nearby water bodies. They can cause environment, which can be very problematic to marine environments.*

*Oils - Oils form a thick layer on the water surface because they do not dissolve in water. This can stop marine plants receiving enough light for photosynthesis. It is also harmful to fish and marine birds. A classic example is the BP oil spill in 2012 with killed thousands of animal species. Read more on this [HERE](#)*

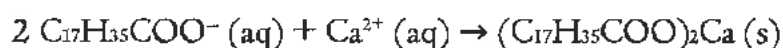
### Oil Pollution by Oil Industries

Routine shipping, run-offs and dumping of oils on the ocean surfaces happen every day. Oil spills make up about 12% of the oil that enters the ocean. Oil spills cause major problems, and can be extremely harmful to local marine wildlife such as fish, birds and sea otters and other aquatic life. Because oil does not dissolve, it stays on the water surface and suffocates fish. Oil also gets caught in the feathers of seabirds, making it difficult for them to fly. Some animals die as a result.



## Effects of Hard Water:

With hard water, soap solutions form a white precipitate (soap scum) instead of producing lather, because the  $2+$  ions destroy the surfactant properties of the soap by forming a solid precipitate (the soap scum). A major component of such scum is calcium stearate, which arises from sodium stearate, the main component of soap:



Hardness can thus be defined as the soap-consuming capacity of a water sample, or the capacity of precipitation of soap as a characteristic property of water that prevents the lathering of soap. Synthetic detergents do not form such scums.



A portion of the ancient Roman Eifel aqueduct in Germany. In service for about 180 years, the aqueduct had deposits of scale up to 20 cm thick along the walls.

Hard water also forms deposits that clog plumbing. These deposits, called "scale", are composed mainly of calcium carbonate ( $\text{CaCO}_3$ ), magnesium hydroxide ( $\text{Mg}(\text{OH})_2$ ), and calcium sulfate ( $\text{CaSO}_4$ ). Calcium and magnesium carbonates tend to be deposited as off-white solids on the inside surfaces of pipes and heat exchangers. This precipitation (formation of an insoluble solid) is principally caused by thermal decomposition of bicarbonate ions but also happens in cases where the carbonate ion is at saturation concentration. The resulting build-up of scale restricts the flow of water in pipes. In boilers, the deposits impair the flow of heat into water, reducing the heating efficiency and allowing the metal boiler components to overheat. In a pressurized system, this overheating can lead to failure of the boiler. The damage caused by calcium carbonate deposits varies on the crystalline form, for example, calcite or aragonite.

The presence of ions in an electrolyte, in this case, hard water, can also lead to galvanic corrosion, in which one metal will preferentially corrode when in contact with another type of metal, when both are in contact with an electrolyte. The softening of hard water by ion exchange does not increase its corrosivity *per se*. Similarly, where lead plumbing is in use, softened water does not substantially increase plumbo-solvency.

In swimming pools, hard water is manifested by a turbid, or cloudy (milky), appearance to the water. Calcium and magnesium hydroxides are both soluble in water. The solubility of the hydroxides of the alkaline-earth metals to which calcium and magnesium belong (group 2 of the periodic table) increases moving down the column. Aqueous solutions of these metal hydroxides absorb carbon dioxide from the air, forming the insoluble carbonates, giving rise to the turbidity. This often results from the pH being excessively high (pH > 7.6). Hence, a common solution to the problem is, while maintaining the chlorine concentration at the proper level, to lower the pH by the addition of hydrochloric acid, the optimum value being in the range of 7.2 to 7.6.

### Softening

It is often desirable to soften hard water. Most detergents contain ingredients that counteract the effects of hard water on the surfactants. For this reason, water softening is often unnecessary. Where softening is practised, it is often recommended to soften only the water sent to domestic hot water systems so as to prevent or delay inefficiencies and damage due to scale formation in water heaters. A common method for water softening involves the use of ion exchange resins, which replace ions like  $\text{Ca}^{2+}$  by twice the number of monocations such as sodium or potassium ions.

### HARD VS SOFT



Washing soda (sodium carbonate -  $\text{Na}_2\text{CO}_3$ ) is easily obtained and has long been used as a water softener for domestic laundry, in conjunction with the usual soap or detergent.

Hard water... is water that contains an appreciable quantity of dissolved minerals (like calcium and magnesium).

Soft water... is treated water in which the only ion is sodium.

As rainwater falls, it is naturally soft. However, as water makes its way through the ground and into our waterways, it picks up minerals like chalk, lime and mostly calcium and magnesium. Since hard water contains essential minerals, it is sometimes the preferred drinking water. Not only because of the health benefits, but also the flavor. On the other hand, soft water tastes salty and is sometimes not suitable for drinking. So why, then, do we soften our water?

When it boils down, the major difference between hard and soft water can best be seen while doing household chores. Hard water is to blame for dingy looking clothes, dishes with spots and residue, and bathtubs with lots of film and soap scum. Even hair washed in hard water may feel sticky and look dull. Hard water can take a toll on household appliances as well and use up more energy. The elements of hard water are to blame for all of these negative factors, as soap is less effective due to its reaction to the magnesium and calcium. The lather is not as rich and bubbly.

Chore-doers will love using soft water, as tasks can actually be performed more efficiently with it. Soap will lather better and items will be left cleaner. Glasses will sparkle and hair will look healthy. The shower curtain will be scum-free. Clothes and skin are left softer. In addition to time, this can also save money, as less soap and detergents will be used. Since appliances have to work less hard, soft water can also prolong the life of washing machines, dishwashers and water heaters. Energy bills are noticeably lower when in households with water softeners. In a time of rising energy costs, this is something to think about.

## WATER ANALYSIS

### Standards used in water analysis

#### conductivity

Electrical conductivity in water is a measure of the ion-facilitated electron flow through it. Water molecules dissociate into ions as a function of pH and temperature and result in a very predictable conductivity. Some gases, most notably carbon dioxide, readily dissolve in water and interact to form ions, which predictably affect conductivity as well as pH. For the purpose of this discussion, these ions and their resulting conductivity can be considered intrinsic to the water.

Water conductivity is also affected by the presence of extraneous ions. The extraneous ions used in modeling the conductivity specifications described below are the chloride and sodium ions. The conductivity of the ubiquitous chloride ion (at the theoretical endpoint concentration of 0.47 ppm when it was a required attribute test in USP XXII and earlier revisions) and the ammonium ion (at the limit of 0.3 ppm) represent a major portion of the allowed water impurity level. A balancing quantity of cations, such as sodium ions, is included in this allowed impurity level to maintain electroneutrality. Extraneous ions such as these may have significant impact on the water's chemical purity and suitability for use in pharmaceutical applications. The procedure described in the section Bulk Water is designed for measuring the conductivity of waters such as Purified Water, Water for Injection, Water for Hemodialysis, and the condensate of Pure Steam produced in bulk. For water packaged in bulk but manufactured elsewhere or for Sterile Purified Water, Sterile Water for Injection, Sterile Water for Inhalation, and Sterile Water for Irrigation, some additional conductivity tests may be required. Such tests are described in the section Packaged Water.

# WATER AND SOIL ANALYSIS KIT





## Procedure

### Total dissolved solids (TDS)

Total dissolved solids (TDS) is a measure of the combined content of all inorganic and organic substances contained in a liquid in molecular, ionized or micro-granular (colloidal sol) suspended form. Generally the operational definition is that the solids must be small enough to survive filtration through a filter with two-micrometer (nominal size, or smaller) pores. Total dissolved solids are normally discussed only for freshwater systems, as salinity includes some of the ions constituting the definition of TDS. The principal application of TDS is in the study of water quality for streams, rivers and lakes, although TDS is not generally considered a primary pollutant (e.g. it is not deemed to be associated with health effects) it is used as an indication of aesthetic characteristics of drinking water and as an aggregate indicator of the presence of a broad array of chemical contaminants.

The two principal methods of measuring total dissolved solids are gravimetric analysis and conductivity. Gravimetric methods are the most accurate and involve evaporating the liquid solvent and measuring the mass of residues left. This method is generally the best, although it is time-consuming. If inorganic salts comprise the great majority of TDS, gravimetric methods are appropriate.

Electrical conductivity of water is directly related to the concentration of dissolved ionized solids in the water. Ions from the dissolved solids in water create the ability for that water to conduct an electric current, which can be measured using a conventional conductivity meter or TDS meter. When correlated with laboratory TDS measurements, conductivity provides an approximate value for the TDS concentration, usually to within ten-percent accuracy.

The relationship of TDS and specific conductance of groundwater can be approximated by the following equation:

$$TDS = kEC$$

where TDS is expressed in mg/L and EC is the electrical conductivity in microsiemens per centimeter at 25 °C. The correlation factor  $k$  varies between 0.55 and 0.8.

## DETERMINATION OF pH OF A SOIL SOLUTION & WATER

Before taking the pH of soil solution or water put on the power of pH meter at least 15 to 20min earlier.

### PREPARATION OF SOIL SOLUTION

20gm of powdered dry soil is weighed accurately & placed in 50ml distilled water stirred & kept for 3 to 4 hours till soil settles completely.

#### Procedure

4, 7 & 9.2 pH 3 to 4 standard buffer solutions of 4, 7, 9.2 pH are prepared & their readings are taken by dipping the pH cell . then washed the cell & dipped in soil solution and once again reading recorded .

For water- 50ml of water is taken in a beaker & the cell is dipped in it & the reading recorded.

## DETERMINATION OF EC OF SOIL AND WATER

Before taking the EC reading of soil a water put on the power of conductivity meter.

Preparation of 0.1N KCl- Analytical grade KCl is used for the preparation of standard solution. 0.746g og KCl is weighed accurately & dissolved in 100ml distilled water to get 0.1N solution.

PROCEDURE- First take 50ml of distilled water in a beaker dip the cell in it & adjust the cell constant to 0.900

Then 50ml of 0.1N KCl is taken in a clean dry beaker & dipped the EC cell in it & the reading is recorded ,it should be around 1.413ds/m

For soil dip the cell in the supernant liquid of soil solution & record the reading . in case water 50ml of water is taken in a clean beaker & cell is dipped in it & the reading is recorded.

## Estimation of Calcium in the water

### Solution required –

- 1) Muroxide indicator
- 2) EDTA (0.01N) – 2gm in 1000ml
- 3) Sodium hydroxide (NaOH 10%) – 10gm in 100ml

### Procedure -

10ml of water sample solution is taken in a conical flask, Add 10ml of sodium hydroxide solution. Add pinch of muroxide indicator, then titrate against 0.01 EDTA till colour changes from pink to violet. [Note- since the colour change not spontaneous keep blank a std sample after adding indicator for noting the end point]

### Calculation –

$$\text{Calcium (meq/liter)} = \frac{\text{TV}_2 * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

$$\text{Magnesium (meq/liter)} = \frac{(\text{TV}_1 - \text{TV}_2) * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

where,

TV<sub>1</sub> – Titrating value for calcium and magnesium

TV<sub>2</sub> – Titrating value for calcium

## Estimation of Calcium and magnesium in the water

### Solution required –

- 1) Buffer solution – 67gm Ammonium chloride, and add 570ml ammonia and make up to 1 ltr
- 2) EDTA (0.01N) – 2gm in 1000ml
- 3) EBT indicator – Dissolve 0.5g of EBT in 100ml of 95% methanol

### Procedure -

10ml of water sample solution is taken in a conical flask, add 10ml of buffer solution to attain pH of 10. Then add 10drops EBT indicator and titrate against 0.01N EDTA Till colour changes from pink to blue.

### Calculation –

$$\text{Calcium (meq/liter)} = \frac{\text{TV}_2 * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

$$\text{Magnesium (meq/liter)} = \frac{(\text{TV}_1 - \text{TV}_2) * \text{N of EDTA} * 1000}{\text{ml of water sample}}$$

where,

TV<sub>1</sub> – Titer value for calcium and magnesium

TV<sub>2</sub> – Titer value for calcium

## Estimation of Carbonate and Bicarbonate in the water

### Solution required –

- 1)  $0.1N \text{ H}_2\text{SO}_4$  – 3ml (conc)  $\text{H}_2\text{SO}_4$  dissolved in 1 liter D.W.
- 2) Phenolphthalein, Methyl orange indicator

### Procedure -

10ml of sample water is mixed with 25ml distilled water placed in a conical flask add 1 – 3 drops of phenolphthalein indicator. If red colour appears titrate against standard  $0.1N \text{ H}_2\text{SO}_4$  till red colour disappears ( $TV_1$ ) Then add 2-3 drops of methyl orange indicator to the colourless solution or add to original solution .If red colour not noticed, Again titrate with  $0.1 N \text{ H}_2\text{SO}_4$  till yellow colour changes to rose red ( $TV_2$ )

### Calculation –

$$\text{Carbonate (meq/liter)} = \frac{2 * TV_1 * N \text{ of } \text{H}_2\text{SO}_4 * 1000}{\text{Ml of water sample}}$$

$$\text{Bicarbonate (meq/liter)} = \frac{[ TV_2 - (2 * TV_1) ] * N \text{ of } \text{H}_2\text{SO}_4 * 1000}{\text{Ml of water sample}}$$



## Estimation of Chloride in the water

### Solution required –

- 1) K<sub>2</sub>CrO<sub>4</sub> indicator – 5gm K<sub>2</sub>CrO<sub>4</sub> in 100ml distilled water
- 2) AgNO<sub>3</sub> (0.1N) – 16.99g AgNO<sub>3</sub> dissolved in 1 ltr distilled water standardise with 0.01N NaCl (Amber coloured bottle )

### Procedure -

5ml of sample solution is taken in a conical flask diluted by adding 25ml D.W. 5-6 drops K<sub>2</sub>CrO<sub>4</sub> indicator is added and titrated with std AgNO<sub>3</sub> till brick red colour appears.

### Calculation –

$$\text{Chloride (meq/liter)} = \frac{\text{TV} * \text{N of AgNO}_3 * 1000}{\text{Ml of water sample}}$$

## RESULTS AND DISCUSSION:

The physicochemical parameters of the well of Benadi and borewell of Khadaklat been given in the table. Conductivity measures the electrical current, which is proportional to Lie mineral matter present in water. Conductivity is thus measurement of total dissolved solids [IDS] in water. Conductivity is represent in umhos/cm in water analysis. It is a very important parameter for determining the water quality for drinking and agricultural purpose. Conductivity value in water samples in borewell is 940 and well is 1180.

Dissolved *oxygen* is one of the most important factors in water quality assessment and reflects the physical and biological process prevailing in natural water. In present investigation the dissolved oxygen concentration higher in well water and lower in the borewell water . this may be due to the decomposition of organic matter was an important factors in consumption of dissolved oxygen.the presence of chlorides in natural water is mainly due to the dissolution of salts deposits. The maximum chloride concentration in borewell water and less in well.

Calcium is one of the important components of the plant tissues and regulates many physiological function in organism . in present work the minimum calcium in well and maximum in borewell.

Magnesium is sn essential constituent of chlorophyllous plants, as it forms the nucleolus of the prophyrin ring of the chlorophyll molecule in the present work maximum in well and less in borewell. It shows direct relation with the dissolved organic matter.

Nitrates is the most oxidized form of nitrogen which is the important plant material. The nitrate content of the water sample varies i.e. in more in borewell water and less in well.

Dissolved solids , which are also refered to as total dissolved solids are various kinds of mineral substances present in water. The concentration of dissolved solids in water gives

an idea about suitability of this water for various uses including that of potable water. TDS are more in well and less in borewell.

BOD is of great importance In water quality assessment, seasonal variations in the values of bio chemical oxygen demand appears to be a function of changes in the degree of dilution, quantity of organic matter and the activity of microorganism carrying out decomposition of carbonous and nitrogenous wastes . it is more in borewell water and less in well water. So, before using borewell water one should analyse the water and then use.

## SUMMARY AND CONCLUSION

All phytoplankton groups are positively inter-co-related with each other. By observing the results one may conclude that the Bore well water contains high salts which directly effect the human health. So, before using borewell water one should analyse the water and then use.

In present study, conductivity values of well is 1180 and borewell is 940. Dissolved oxygen concentration in borewell is 6.80 and maximum in well is 7.4. The total solids in the well is 708 and that of borewell is 573. Total alkalinity of well is 340 and borewell is 420.it is recorded low alkalinity in well and high in borewell due to dilution effect of rainfall. The total hardness is the total soluble magnesium salt present in the well is 199 and for borewell is 124 and for calcium in well is 200 and that of borewell is 216.Total alkalinity as  $\text{CaCO}_3$  for well is 340 and that of borewell is 420.The total hardness of chloride of borewell is 250 and that of well is 225.even that of nitrate in well is 10.87 and borewell is 11.26. The BOD of well is 0.60 and borewell is 0.70.

# ರೈತ ಮಿತ್ರ ಕೃಷಿ ಅಭಿವೃದ್ಧಿ ಸಂಘ (ರಿ) ಸಂಕೇಶ್ವರ

ಎಮ್. ಪಿ. ಸೊಡಾಯಟ ಆರ್ಯಾದ ರೋಡ,

ಸಂಕೇಶ್ವರ ತಾ: ಹುಕ್ಕೇರಿ ಜಿ: ಬೆಳಗಾವಿ

## ನೀರು ಪರಿಶೋಧನೆಯ ವಿವರ

ಹೆಸರು: ನೋಡಲಿ ಗೌಡ ರೋಡಕ್ರ. ಸಂ. 24ಊರು: ರಾಯನೋಡಲಿ ತಾ: ಹುಕ್ಕೇರಿ ಜಿ: ಬೆಳಗಾವಿಬಾವಿ / ಕೊಳವೆ ಬಾವಿ / ನದಿ ಕೊಳವೆ ಬಾವಿ

ದಿನಾಂಕ: 17 / 03 / 2018

ಪರಿಶೋಧನಾ ಪರಿಮಾಣ	ಪ್ರಮಾಣ / ಮಿತಿ	ನಿರೀಕ್ಷಣೆ
1 ಪಿ. ಎಚ್ (PH)	6.5 - 7.5	8.31
2 ಕ್ವಾರ್ (EC ds /cm)	0.25-0.75	0.93
3 ಕೋಲ್ಡ್ರೆಡ್ಸ್ ಮಿ. ಇಕ್ವಿಲಿ	0 - 5.0	4.0 ಲೀ/ಲೀಟರ್
4 ಕ್ಲಾರ್ನಿಯಮ್ ಇಕ್ವಿಲಿ	0 - 5.0	2.2 ಲೀ/ಲೀಟರ್
5 ಮ್ಯಾಗ್ನೀಸಿಯಮ್ ಇಕ್ವಿಲಿ	0 - 2.5	0.7 ಲೀ/ಲೀಟರ್
6 ಸೊಡಿಯಮ್ ಇಕ್ವಿಲಿ	0 - 5.0	1.286 ಲೀ/ಲೀಟರ್
7 ಪೊಟ್ಯಾಸಿಯಮ್ ಇಕ್ವಿಲಿ	0 - 4.0	0.0153
8 ಕಾರ್ಬೋನೇಟ್ ಇಕ್ವಿಲಿ	ಇಲ್ಲ	2.106 ಲೀ/ಲೀಟರ್
9 ಬೈ ಕಾರ್ಬೋನೇಟ್ ಇಕ್ವಿಲಿ	0 - 1.5	2.574 ಲೀ/ಲೀಟರ್
10 ಸೊಡಿಯಂ ಅಪ್ಸೋರ್ಪ್ಶನ್ ರೇಟೋ	10 ಕ್ಕಿಂತ ಕಡಿಮೆ	0.974
11 ನೀರಿನ ಪ್ರಕಾರ	Hard Water	
12 ಇತರೆ TDS		519

ನೀರಿನ ಬಗ್ಗೆ ಸಲಹೆ :-

ನೀರಿನ ಕ್ವಾರ್ಡ ಪ್ರಮಾಣ ಯೋಗ್ಯ / ಮಧ್ಯಮ / ಹೆಚ್ಚು ಇದೆ. ಬೆಳೆಗಲಿಗೆ ಉಪಯೋಗಿಸಲು ಯೋಗ್ಯ / ಅಯೋಗ್ಯವಾಗಿದೆ.

ಮುಖ್ಯ ಪರಿಶೋಧಕ



*Dr. M. C. Hosur*  
 ವಿಭಾಗ ಮುಖ್ಯಸ್ಥರು, S.P.H.D.  
 Chief Administrator  
 Rait Mitra Krishi Abhivrudhi Sangha, (R)  
 SANKESHWAR, Tal. Hukkeri Dt. Belagavi

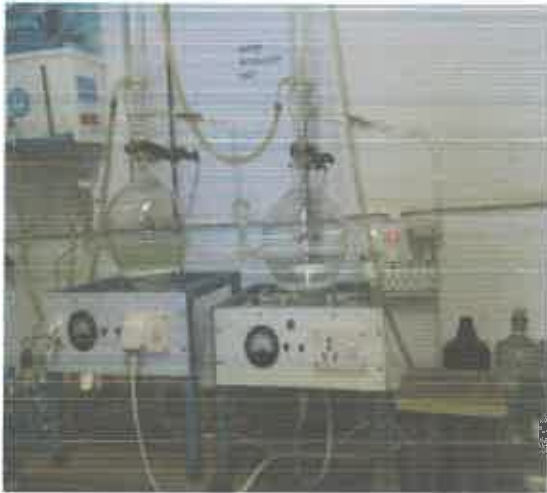


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**Photos of project at,**

**Rait Mitr Krushi Abhivraddhi Sangh, Sankeshwar**



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"College with Potential for Excellence"

**DEPARTMENT OF CHEMISTRY**

***Certificate Course in Chemistry***

This is to certify that Mr./Miss. Amruta Patil of

**B.Sc. VI Semester** has successfully completed a certificate course in **Water Analysis**

& Submitted the report during the academic year **2017-18**

Head  
Department of Chemistry.



Convenor

PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



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**IQAC INITIATIVE**  
**Department of Chemistry**

**REPORT ON :- Certificate Course on Water analysis**

Name of the Department	Chemistry					
Name of the Event Organized	Guest Lecture					
Title of the Event	Water Analysis					
Date of the Event Organized	03/03/2018					
Name of the Convener	Shri. P. T. Narawade					
Participants	127					
No. of Participants	Total	127	Teachers	12	Students	80 (PCM) + 35 (CBZ) = 115
Name of the Expert with Designation	Dr. M. C. Hosur, Chief Administrator					
Contact Number & Address of the Expert	Rait Mitra Abhivruddhi Sangh, (R) at Sankeshwar					
Objectives of the Event	1. To understand the different types of water. 2. To make students to understand the different parameters of water analysis.					
Outcome of the Event	It enhances the skill of water analysis and can become self-entrepreneurship.					

**Photo Gallery**



*Note*  
IQAC Coordinator  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

*Head*  
HOD  
Head  
Department of Chemistry  
K.L.E.'s G.I.B. College, Nipani.

*Principal*  
Principal  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.







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Date: 12/03/2018

**IQAC INITIATIVE**  
**Department of Chemistry**  
**Report**  
**Certificate Course on Water Analysis - 2017-18**

In advancing technology, world needs learning beyond the curriculum. To achieve expectations and results, department of Chemistry has organized 3 months Certificate course in Water analysis during the Academic year 2017-18.

B.Sc. VI semester chemistry students were participated in this certificate course. This academic planning consisting of 16 hours theory and 16 hours of practicals. Dr. M. C. Hosur delivered a talk on water analysis in our college on 12/03/2018. The classes for water analysis were conducted from 07/01/2018 to 11/03/2018 as per the schedule of Certificate course by the staff our chemistry department. Many faculty of chemistry department were engaged the classes on water analysis and the students are exposed to the concepts like acidity, turbidity, suspended particles, pH, conductivity etc.

Further extensive practical training on water analysis to the students was conducted at 'Rait Mitra Krishi Abhivruddhi Sangh', (R) Sankeshwar under the guidance of Dr. M. C. Hosur and his team from 13/03/2018 to 19/03/2018. During practicals students were handled sophisticated instruments like absorption spectrophotometer, pH meter, conductometer, Kjeldahl's apparatus and flame photometer. After the completion of the Certificate Course a written test of 20 marks was conducted & Certificates were issued to the students. 115 students and 12 staff members were present at the function.



  
**PRINCIPAL**  
**K. L. E. Society's**  
**G. I. Bagewadi College, Nipani.**





Dr. M. C. Hosur addressing the students and staff.



Students at 'Rait Mitra Krishi Abhivruddhi Sangh' laboratory. Felicitation to Dr. M. C. Hosur by Principal.

*[Signature]*  
Convenor

*[Signature]*  
MOD  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

*[Signature]*  
Principal  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



IV 2



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IQAC- Initiative


Date: 25/12/2017

**Department of chemistry**  
**Certificate course - Water Analysis**  
**Notice**

The department of Chemistry organising Certificate course for B.Sc. VI<sup>th</sup> Semester students on "Water analysis" which is jointly organised with water Analysis Research Centre at Rait Mitra Abhivruddhi Sangh (R) at Sankeshwar.

All the B.Sc. VI<sup>th</sup> Semester students are here by informed to enroll their names to Prof. Prashant T. Narawade for certificate course in Chemistry, on or before 30/12/2017.

  
Convener

  
HOD  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.





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Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2017-18**  
**ENROLLMENT FORM**

Mr./Miss.: Achal magadum of Class : B.Sc. (H) Chem Roll No.: 81 Date: 25/12/2017  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Baswad  
Staff Incharge

HOD  
Head  
Department of Chemistry  
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Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2017-18**  
**ENROLLMENT FORM**

Mr./Miss.: Akshay Hanawadar of Class : B.Sc. (H) Chem Roll No.: 82 Date: 25/12/2017  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Baswad  
Staff Incharge

HOD  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2017-18**  
**ENROLLMENT FORM**

Mr./Miss.: Ankita magadum of Class : B.Sc. (H) Chem Roll No.: 83 Date: 25/12/2017  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

Baswad  
Staff Incharge

HOD  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.





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Department of Chemistry  
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ENROLLMENT FORM

Mr./Miss.: Asati Balebahadur of Class : B.Sc-III Sem Date: 26/12/2017  
Roll No.: 84  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

S. S. Wad  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2017-18**  
ENROLLMENT FORM

Mr./Miss.: Archana Kurubar of Class : B.Sc-III Sem Date: 26/12/2017  
Roll No.: 85  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

S. S. Wad  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN SOIL ANALYSIS - 2017-18**  
ENROLLMENT FORM

Mr./Miss.: Ashwini Sabale of Class : B.Sc-III Sem Date: 27/12/2017  
Roll No.: 86  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

S. S. Wad  
Staff Incharge

HOD Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.





46	S1517675	RAJESHWARI JANAWADE	200	
47	S1517676	RANI KHOT	200	
48	S1517678	REKHA PATIL	200	
49	S1517682	SADANAND SWAMI	200	
50	S1517683	SALMABI NADAF	200	
51	S1517684	SAMMED PATIL	200	
52	S1517685	SANDEEP GHASTE	200	
53	S1517686	SANMATI CHOUGALA	200	
54	S1517687	SANMATI MUNNOLI	200	
55	<del>S1517689</del>	<del>SATYAM PATIL</del>	<del>200</del>	X
56	S1517690	SHIVANAND PUJARI	200	
57	S1517693	SHRADHA GURAV	200	
58	S1517694	SHREEMANTI PATIL	200	
59	S1517696	SHRUTI PATIL	200	
60	S1517698	SHRUTIKA PATIL	200	
61	S1517699	SHUBHANGI PARIT	200	
62	S1517700	SHWETA KORUCHE	200	
63	S1517701	SNEHA KAGE	200	
64	S1517702	SNEHAL KHOT	200	
65	S1517704	SOURABH PANADE	200	
66	S1517705	SUHAS PATIL	200	
67	S1517706	SUJIT PATIL	200	
68	S1517707	SUNIL DHANG	200	
69	S1517708	SURAJ KOOT	200	
70	S1517709	SWAPNAJA METRI	200	
71	S1517710	SWATI KABADE	200	
72	S1517711	SWAYAMBHU NAIK	200	
73	S1517713	TEJASWINI HUCHCHANNAVAR	200	
74	S1517716	VANI BHAIRSHETTI	200	
75	S1517719	VIMAL TAKALE	200	
76	S1517720	VINOD PATIL	200	
77	S1517721	VIRUPAKSHA MANE	200	
78	S1517722	VISHAL KOLE	200	
79	S1517724	YOGESH SHETAKE	200	
80	S1417268	Raju Chanagouda Patil (RE- ADM)	200	
81	S1517603	ACHAL MAGADUM	200	
82	S1517611	AKSHAY HAVALDAR	200	
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89	S1517636	KALYANI SHITOLE	200	
90	S1517638	KARISHMA HALKARNI	200	
91	S1517639	KAVERI KUMBAR	200	
92	S1517642	LAXMI SHETTI	200	







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Website: [www.kleibnnpn.edu.in](http://www.kleibnnpn.edu.in) E-mail: [kleibnnpn@yahoo.co.in](mailto:kleibnnpn@yahoo.co.in) Ph.: 08338-220116

## Certificate Course in Soil Analysis Syllabus Scheme

Sr. No.	Paper No.	Total workload	Max. Marks	Internal marks	Total marks
1.	Paper – Theory	16 Hours	40	10	50
2.	Paper - Practical	16 Hours	40	10	50
				Total Marks	100





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### **IQAC INITIATIVE**

#### **Department of Chemistry Certificate Course in Soil Analysis Syllabus for Soil Analysis**

**Lectures to be delivered: 16 Hours**

**Max. Marks: 40**

**Periods per Month: 04**

#### **Unit – I: Introduction**

**4 Hours**

Definition of Soil, Concept of Lithosphere, Soil as a natural body, Soil Components: Air, Water, inorganic and organic solids, Formation of Soil, Types of Soils & Basic Concepts.

#### **Unit – II: Properties of Soil**

**8 Hours**

Introduction to properties of Soil:

##### **A) Physical Properties:-**

Soil Separates, Texture, Aggregation and Structure, Temperature, Colour, Properties of Soil Mixture, Pore Space, Bulk Density, Particle Density, Aeration and Drainage, Compaction, Surface area, Soil water Relationships.

##### **B) Chemical Properties:-**

Morphology of Colloids, Chemistry of Clays, Ionic Exchange, Acidity, Alkalinity, pH, Salinity, Reactions in Liming and Acidification.

##### **C) Biological Properties:-**

Soil Organic Matter, C: N Relationships, N-Transformation, Soil Organisms, Sulfur Transformation.

#### **Unit – III: Soil Profile & Classification**

**4 Hours**

Soil profile, Soil forming factors, soil survey methods, soil survey reports, Soil distribution, classification system.

#### **Books Recommended:**

1. Soils and soil fertility, Troch, F.R. And Thompson, L.M. Oxford Press.
2. Fundamentals of soil science, foth, H.D. Wiley Books.
3. Soil Science and Management, Plaster, Edward J., Delmar Publishers.
4. Principles of Soil Chemistry (2Wed.) Marcel Dekker Inc., New York.
5. Handbook of Agricultural Sciences, S.S.Singh, P.Gupta, A.k.Gupta, Kalyani Publication.





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## PRACTICALS

### Soil Analysis & Testing Methods

No. of practicals: 12

Max Marks : 40

1. Visit to Soil Testing Laboratory & Report writing.
2. Visit to Farmers Fields for Collection of Soil Samples, identification of nutrient deficiency Symptoms in Crop.
3. Preparation of Various Chemical reagents required for soil testing.
4. Processing of Soil Sampling for analysis
5. Determination of pH of soil sample using pH meter
6. Determination of Electrical Conductivity of Soil Sample using Electrical. Conductivity meter.
7. Determination of Organic Carbon by wet Oxidation method.
8. Determination of available Nitrogen from Soil Sample.
9. Determination of available phosphorus from soil sample.
10. Determination of available Potassium from soil sample.
11. Determination of Calcium Carbonate from soil sample.
12. Determination of micronutrients from soil sample.

#### Books Recommended:

1. Introduction to soil laboratory manual -J.J.Harsett stipes.
2. Introduction to soil science laboratory manual, Palmer and troch - Iowa state.





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E-mail: klegib\_npn@yahoo.co.in



Date 09/03/2018

## Certificate course in Chemistry


The department of chemistry organizing certificate courses for B.Sc.VI semester students on "Soil Analysis and Water Analysis" which is jointly organized with the Soil and Water Analysis Research center at Rait Mitra Abhvivrudhi Sangh, ( R ), at Sankeshwar.


All the B.Sc.VI Semester students are hereby informed to carry out the Soil and Water Analysis, at Rait Mitra Abhvivrudhi Sangh, (R) Research center, Sankeshwar, from 13/03/2018 to 19/03/2018 with the following chemistry staff in charge as per the following schedule from 11 a.m. to 4.30 p.m.


Day	Students Roll. No	Total	Date	Staff Incharge	Signature
Tuesday	98 to 115	18	13/03/2018	Shri.P.T.Narawade Miss. D. Kanagali.	
Wednesday	45 to 62	18	14/03/2018	Shri.S.M.Narawade Miss. D. Kanagali.	
Thursday	63 to 80	18	15/03/2018	Shri. G.B.Kumbar Miss. D. Kanagali	
Friday	1 to 22	22	16/03/2018	Miss.P.G.Soude Miss. D. Kanagali.	
Saturday	23 to 44	22	17/03/2018	Dr. A.S.Jaganure Miss. D. Kanagali.	
Monday	81 to 97	17	19/03/2018	Miss.P.P.Shedbal Miss. D. Kanagali.	

The certificate course is a part of curriculum and is compulsory for B.Sc.VI Semester students.

  
Convener

  
HOD  
Chemistry  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
G.I. Bagewadi Arts, Science & Commerce College, NIPANI.





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## DEPARTMENT OF CHEMISTRY

### Certificate Course (Soil Analysis)

2017-18

### STAFF LIST

- **Dr. A. S. Jaganure**
- **Dr. S. B. Solabannavar**
- **Prof. G. B. Kumbar**
- **Mr. P. T. Narawade**
- **Miss. P. G. Soude**
- **Miss. P. P. Shedbal**
- **Mr. S. M. Narawade**







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## DEPARTMENT OF CHEMISTRY


### CERTIFICATE COURSE (Soil Analysis)

#### TIME TABLE 2017-2018

DAY	THEORY ( 10am – 11pm)	PRACTICAL ( 12pm – 4pm)
07/01/2018	ASJ	PTN
14/01/2018	SBS	PGS
21/01/2018	PPS	SMN
28/01/2018	GBK	PPS
04/02/2018	PTN	GBK
11/02/2018	PGS	PTN
18/02/2018	ASJ	PGS
25/02/2018	SBS	GBK
04/03/2018	PPS	SBS
11/03/2018	PTN	ASJ
18/03/2018	Theory test paper	
25/03/2018	Practical test paper	

  
Convenor

  
Head of Department  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

  
Principal  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





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**DEPARTMENT OF CHEMISTRY**  
**IQAC INITIATIVE**

**SOIL ANALYSIS**  
**Marks Statement**

Ri. No.	NAME OF THE CANDIDATES	Marks	Roll. NO.	NAME OF THE CANDIDATES	Marks
81	ACHAL MAGADUM	18	102	RUSHIKESH MAJAGE	13
82	AKSHAY HAVALDAR	17	103	SANOBAR MULLA	15
83	ANKITA MAGADUM	19	104	SHARADDHA SANGANE	17
84	ARATI BHALEBHALLAR	14	105	SHRUTI CHONCHANNAVAR	18
85	ARCHANA KUMBAR	15	106	SONALI NAIK	18
86	ASHWINI SABALE	12	107	TEJASHREE MANGAVATE	19
87	HARSHA SHIRKOLI	18	108	TRUPTI KAMBLE	17
88	VARSHA JABADE	19	109	UZMA MULLA	18
89	KALYANI SHITOLE	20	110	VARSHA KENAWADE	19
90	KARISHMA HALKARNI	20	111	VIJAYKUMAR KAROSHI	16
91	KAVERI KUMBAR	16	112	YASHODHA HUNAKUMPI	16
92	LAXMI SHETTI	14	113	MEGHARANI PATIL	17
93	MAHADEVI BHANASE	17	114	AISHWARYA MODI	15
94	MARUTI GURAV	18	115	CHAITANYA CHAVAN	16
95	MAYURI JASUD	16			
85	ARCHANA KUMBAR	14			
96	NILAM PATIL	17			
97	PALLAVI KUMBAR	19			
98	PALLAVI NAGAVE	12			
99	SHIVANI PATIL	16			
100	PRAGATI PATIL	18			
101	RESHMA CHOUGULE	20			

  
Convener

  
HOD  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.

  
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Certificate Course in Chemistry

Project Report on  
**SOIL ANALYSIS**

April 2017-2018

Submitted by:

*Patil*  
~~Mr~~ / Miss. *Patil Shivani Balavahub* .....

.. of B.Sc. VI Semester Chemistry .

To

THE DEPARTMENT OF CHEMISTRY

*Patil*  
Signature  
Of Student

*Prasad*  
Signature of  
Staff Incharge

*Dr. A. S. Jaganure*  
(Dr. A. S. JAGANURE)  
Head of Department of Chemistry  
KLE'S G. I. Bagewadi College, Nipani.  
PROF  
Chemistry

*Prasad*  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



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Department of Chemistry

April 2017-18

## CERTIFICATE

This is to certify by Me/ Miss.  
Patil shivani Balasaheb of B.Sc.VI Semester Student  
has satisfactorily completed the project on "Soil Analysis" in Chemistry  
prescribed by the Rani Channamma University, Belgavi for B.Sc. VI  
Semester of this college in the year 2017-18.

Paawade  
Staff Incharge  
Department  
Examiner

Paawade,  
Convener

Dr. A. S. JAGANURE  
Head of Department of Chemistry  
KLE's G.I. Bagewadi College, Nipani.



## DECLARATION

Mr./Miss. \_\_\_\_\_ of  
B.Sc. VI Semester Studying in K.L.E's " G.I. Bagewadi College, Nipani. Hereby  
declare that this project is genuine and original work of study prepared by me. It  
is based on the data and information collected by me. To the best of my  
knowledge and belief, the matter presented in this report has not been copied  
from any report submitted to Rani Chanamma University, Belagavi, to  
Complete B.Sc.

I Hope this report will serve the purpose.

Place: Nipani

Signature

Date: 13/04/2018.

( Patil )

Name: Patil Shivani Balabesh.



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2	Types of soil
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9	Estimation of phosphorous by spectrophotometer
10	Estimation of nitrogen by kjeldahl's method
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# Soil analysis

## Introduction

To design a good sampling plan for soil and water testing, one needs to consider the basic facts related to soil formation and water cycling. For both soil and water, we are dealing with complex systems, where biological, chemical and physical factors all interact. Also, soil and water are interconnected, and farming practices affect both soil and water quality. A brief explanation of some of these basic factors related to soils will be covered in this section.

**Soil Formation and Conservation** The process of soil formation has been going on since the surface of the earth cooled. The factors that determine what the soil looks like now include; 1) parent material (the rock from which it formed), 2) time (is this a "young" soil or an "old" soil), 3) climate, 4) topography, and 5) biological processes. The parent material, or rock, will often determine the basic chemistry of the soil. Soils formed from limestone for example, will have a native, or natural pH that is higher than soil formed from other materials. If one looks at a soil profile, or cross section, you will find the parent material, or rock in the lower layers. In Kansas, most of our soils have been formed from limestone, shale, or sandstone. Some soils have been formed from an original soil that was formed in another region, and then moved. Soil deposited by water, for example a river, are called alluvium. Wind deposited soils, common in parts of the great plains, are called loess. The time that a soil has had to form will often affect the amount of layering, or differentiation from the top of the profile to the bottom. An older soil will have a "topsoil" layer, that will be darker, and higher in organic matter (from centuries of contributed plant and animal matter), and the lower layers will be progressively lighter in color, and generally lower in organic matter and nutrient content. An example of a "young" soil would be an area where a river has recently deposited soil, or alluvium, to a particular area. In parts of the world with active volcanoes, the volcanic ash layers will begin to form soil layers, and then may be covered again by ash. In some of these areas, one can find buried soil horizons. A soil that is nearly the same color throughout the profile, especially when there is little change in the properties of the profile horizons is probably a young soil. Climate also affects soil formation. In hot climates, many of the minerals will be oxidized, and the iron in the soil and clay will be a reddish color, rather than gray or black. Organic matter will also decompose more rapidly in a hot climate, and within the great plains region, the native soils in Minnesota will be darker, and much higher in organic matter than those in Texas. Rainfall also affects soil formation. In areas of extremely high annual rainfall, some minerals, and in some cases, organic matter will have been leached from the topsoil to a lower layer. The pH may be lower on these soils, due to the leaching of calcium from the topsoil. Areas of low rainfall, especially where annual rainfall is less than the annual evaporation, will accumulate minerals, including calcium and other salts on the surface. Topography often affects how much erosion has taken place. Soils on top of hills or on steep side slopes tend to be thinner, or more eroded than those on the slopes, and at the bottom or "toe" of a slope, one can find zones of soil accumulation. Management, along with

topography will also affect how much erosion has, and is continuing to take place. The thinner, or more eroded soils will often be lower in organic matter, since they have lost their topsoil layer. The clays in the subsoil layers are then on the top. A field that is "patchy" in color will probably have had some erosion historically. Biological processes that affect soil have historically been determined by the native or natural vegetation. Soils that form under forests are very different than those that have formed in grassland regions. Much of the soil in the Great Plains was formed when the region was covered by prairie grasses. This soil is very fertile, and rich in organic matter compared to soils of other regions. The deep grass roots added organic matter to a depth of several feet in some cases, leading to the formation of the rich, dark soils that have made Kansas the "breadbasket" of the world. Tillage, and planting of annual crops on these soils has halted this addition of organic matter, but reduced tillage and adding perennial crops into the rotation can help maintain the organic matter that is left. The nutrient content of soil now will be a combination of; 1) the starting natural fertility of the parent material (Kansas soils, for example, tend to be naturally high in potassium), 2) the subtraction of nutrients as a result of erosion and crop use since the land has been tilled (generally for the past 100 years or so), and 3) additions of fertilizer sources such as manures, composts, legumes, and mineral fertilizers. When designing a soil sampling program, one needs to consider all of these factors. Knowing the soil type (from soil survey maps), topography, and field histories (crops grown and fertility sources) will help you design a plan to answer specific farm management questions.

### **Definition of soil:**

Soil is a mixture of organic matter, minerals, gases, liquids, and organisms that together support life. The Earth's body of soil is the pedosphere, which has four important functions: it is a medium for plant growth; it is a means of water storage, supply and purification; it is a modifier of Earth's atmosphere; it is a habitat for organisms; all of which, in turn, modify the soil.

### **Types of soil:**

#### **I. Based on the dominating size of the particles within a soil**

II. Sand 2. Silt 3. Peat 4. Clay 5. Chalk 6. Loam

#### **II. Based on colour**

1. Alluvial Soils: 2. Black Soils: 3. Red Soils 4. Laterite Soils:

5. Mountain Soils 6. Desert Soils:

# I. Based on the dominating size of the particles within a soil

## 1. Sand



The first type of soil is the sand. It consists of small particles of weathered rock. Sandy soils are one of the poorest types of soils to grow any kind of plants because it stops the soil from retaining water and makes it hard for the plants roots to absorb water. But this type of soil plays a very good role in the drainage system.

## 2. Silt



Silt, which is known to have much smaller particles compared to the sandy soil and is made up of rock and other mineral particles which are smaller than sand and larger than clay. It is the smooth and quite fine quality of the soil that holds water better than sand. Silt is easily transported by moving currents and it is mainly found near the river, lake beds, etc. The silt is more fertile soil compared to other three types of soil. Therefore it is also used in agricultural practices to improve soil fertility.

## 3. Peat

This soil is also called turf (/tɑ:rf/), is an accumulation of partially decayed vegetation or organic matter that is unique to natural areas



called peatlands, bogs, mires, moors, or muskegs.[1][2] The peatland ecosystem is the most efficient carbon sink on the planet,[2] because peatland plants capture CO<sub>2</sub> naturally released from the peat, maintaining an equilibrium. In natural peatlands, the "annual rate of biomass production is greater than the rate of decomposition", but it takes "thousands of years for peatlands to develop the deposits of 1.5 to 2.3 m [4.9 to 7.5 ft], which is the average depth of the boreal [northern] peatlands".[2] Sphagnum moss, also called peat moss, is one of the most common components in peat, although many other plants can contribute. Soils consisting primarily of peat are known as histosols. Peat forms in wetland conditions, where flooding obstructs the flow of oxygen from the atmosphere, slowing the rate of decomposition

## 4. Clay



Clay is the smallest particles amongst other two types of soil. The particles in this soil are tightly packed together with each other with very little or no airspace. This soil has a very good water storage qualities and making hard for moisture and air to penetrate it. It is very sticky to the touch when wet, but smooth when dried. Clay is the densest and heaviest type of soil which do not drain well or provide space for plant roots to flourish



**5. Chalk** Chalk soil is a soft, white, porous, sedimentary carbonate rock, a form of limestone composed of the mineral calcite. Calcite is an ionic salt called calcium carbonate or  $\text{CaCO}_3$ . It forms under reasonably deep marine conditions from the gradual accumulation of minute calcite shells (coccoliths) shed from micro-organisms called coccolithophores. Flint (a type of chert) is very common as bands parallel to the bedding or as nodules embedded in chalk. It is probably derived from sponge spicules or

other siliceous organisms as water is expelled upwards during compaction. Flint is often deposited around larger fossils such as Echinoidea which may be silicified (i.e. replaced molecule by molecule by flint).



**6. Loam** Loam is the fourth types of soil. Even though it is a combination of sand, silt, and clay. It is the gardener's favorite kind of soil. Among all these three types of soil, this loamy soil is more suitable for farming. Loam soil is also referred to as an agriculture soil as it includes an equilibrium of all three types of soil materials being sand, clay and silt and also happens to have humus. Apart from these, it also has a higher calcium and pH levels because of its previous organic

material content.

## II. Based on colour



### 1. Alluvial Soils:

These are formed by the deposition of sediments by rivers. They are rich in humus and very fertile. They are found in Great Northern plain, lower valleys of Narmada and Tapti and Northern Gujarat. These soils are renewed every year.



**2. Black Soils:** These soils are made up of volcanic rocks and lava-flow. It is concentrated over Deccan Lava Tract which includes parts of Maharashtra, Chhattisgarh, Madhya Pradesh, Gujarat, Andhra Pradesh and Tamil Nadu. It consists of Lime, Iron, Magnesium and also Potash but lacks in Phosphorus, Nitrogen and

Organic matter.



**3. Red Soils:** These are derived from weathering of ancient metamorphic rocks of Deccan Plateau. Its redness is due to iron composition. When iron content is lower it is



yellow or brown. They cover almost the whole of Tamil Nadu, Andhra Pradesh.



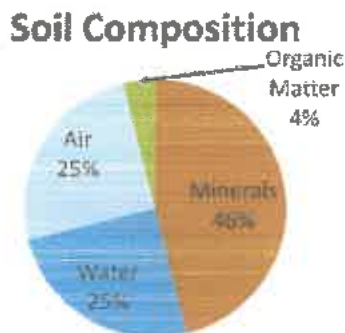
**4. Laterite Soils:** These soils are formed due to intense leaching and are well developed on the summits of hills and uplands. They are commonly found in Kerala, Tamil Nadu, Maharashtra, Chhattisgarh and hilly areas of Orissa and Assam

**5. Mountain Soils:** These soils are formed as a result of the accumulation of organic matter derived from forest growth. They are found in Himalayan region and vary in different regions according to altitude. Tea is grown in those areas which receive sufficient rainfall.



**6. Desert Soils:** In the desert regions of Rajasthan, soils are not well developed. As evaporation is in excess of rainfall, the soil has a high salt content and saline layer forms a hard crust. These soils are generally sandy and deficient in organic matter.

### Composition of soil



cultivation practices, and/or soil type.

The basic components of soil are minerals, organic matter, water and air. The typical soil consists of approximately 45% mineral, 5% organic matter, 20-30% water, and 20-30% air. These percentages are only generalizations at best. In reality, the soil is very complex and dynamic. The composition of the soil can fluctuate on a daily basis, depending on numerous factors such as water supply,

## Estimation of carbon

### Solution required : -

- 1) Pottassium dichromate 1N – 49.0 g in 1 Ltr
- 2) (conc) Sulphuric acid
- 3) Ferrous ammonium sulphate 0.1N – 39.2 g in 1 Ltr
- 4) Ferroun indicator

### Procedure : -

1gm of soil is weighed accurately placed in a 100ml conical flask , 10ml of 1.0N Pottassium dichromate and 10ml (conc) Sulphuric acid are added. Kept for 1hour to complete the reaction. To this 30ml distilled water is added and filtered. 10ml of filterate is titrated with 0.5N Ferrous ammonium sulphate using Ferroun indicator the reading is recorded.

### Blank

10ml of 0.5N Pottassium dichromate is pipette into a 100ml conical flask , 20ml 5N Sulphuric acid is added and two drops of Ferroun indicator is added and titrated against 1.0N FAS end point green to wine red.

### CALCULATION-

$$\% \text{ Of Carbon} = \frac{(\text{blank-burette reading}) * \text{Normality of FAS} * 0.003 * 100 * 5}{\text{Weight of soil taken}}$$

Weight of soil taken

## Estimation of CaCO<sub>3</sub> in the soil

### Solution required –

- 1) 0.1N Hcl - 9ml of (conc) Hcl dissolved in 1ltr D.W.
- 2) 0.1N NaOH -4g of NaOH dissolved in 1 ltr D.W.
- 3) Phenolphthalein indicator

### Procedure -

Weight 5gm of completely dried soil place it in 250ml conical flask add exactly 100ml of 0.1 N Hcl shake for few minutes keep it for 1 hr for completion of the reaction . Pipette out 10ml of supernat liquid in 100ml conical flask add 1 – 2 drops of phenolphthalein indicator and titrate with 0.1N NaOH till colour changes from colourless to pale pink.

### Calculation –

$$\frac{(\text{Blank} - \text{B.R.}) * (\text{N of NaOH}) * (\text{vol. Of Hcl added}) * 100}{(\text{Volume of Hcl pipeted}) (\text{weight of soil})}$$

### Equation & Conversion factor



$$1 \text{ mole CaCO}_3 = 2 \text{ mole HCl}$$

$$100 \text{ g CaCO}_3 = 73 \text{ g HCl}$$

$$50 \text{ g of CaCO}_3 = 36.5 \text{ g HCl}$$

$$50 \text{ g of CaCO}_3 = 1000 \text{ ml 1N HCl}$$

$$\therefore .1 \text{ ml 1N HCl} = 50/1000 = 0.05 \text{ g CaCO}_3$$

## Estimation of Sodium and Potassium

### Solution required –

- 1) Ammonium acetate 1N - 77g of Ammonium acetate dissolved in 1ltr D.W. pH of solution should be adjusted to 7 by 0.1 N HCl ( few drops).
- 2) 1000ppm Kcl- 1.908g of A.R. grade Kcl dissolved 1 ltr D.W.
- 3) 1000ppm Nacl - 2.54g of Nacl dissolved in 1 ltr D.W.

To warm the flame photometer switch on the electrical button after 5min switch on the compressor. Then turn on gas connection adjust the flame blue colour.first take blank reading then put the capillary in test solution observing readings for Na and K.

### Procedure –

1000ppm Nacl and Kcl convert to 100ppm by taking 10ml of the 1000ppm solution & dilute to 100ml. From 100ppm Nacl and Kcl the following std solutions are prepared 5, 10, 15, 20, 30, 40. By taking 5, 10, 15, 20, 30, 40ml of 100ppm solution is taken 100ml vol.flask and diluted 100ml with these solution readings were taken from flame photometer to calibration of the instrument.

5g of finely powdered dry soil is taken , 25ml of ammonium acetate is added shake for 5min and kept for 1hr for completion of the reaction. The solution is filtered and percentage of Na and K is determined by using flamephotometer.

### Calculation –

$$\text{Available K Kg/ha} = \frac{\text{Graph ppm} * \text{volume of extractant} * 2.24 * 10^6}{10^6 * \text{weight of soil}}$$

## DETERMINATION OF pH OF A SOIL SOLUTION & WATER

Before taking the pH of soil solution or water put on the power of pH meter at least 15 to 20min earlier.

### PREPARATION OF SOIL SOLUTION

20gm of powdered dry soil is weighed accurately & placed in 50ml distilled water stirred & kept for 3 to 4 hours till soil settles completely.

Procedure

4, 7 & 9.2 pH 3 to 4 standard buffer solutions of 4, 7, 9.2 pH are prepared & their readings are taken by dipping the pH cell . then washed the cell & dipped in soil solution and once again reading recorded .

For water- 50ml of water is taken in a beaker & the cell is dipped in it & the reading recorded.

## DETERMINATION OF EC OF SOIL AND WATER

Before taking the EC reading of soil a water put on the power of conductivity meter.

Preparation of 0.1N KCl- Analytical grade KCl is used for the preparation of standard solution. 0.746g of KCl is weighed accurately & dissolved in 100ml distilled water to get 0.1N solution.

PROCEDURE- First take 50ml of distilled water in a beaker dip the cell in it & adjust the cell constant to 0.900

Then 50ml of 0.1N KCl is taken in a clean dry beaker & dipped the EC cell in it & the reading is recorded ,it should be around 1.413ds/m

For soil dip the cell in the supernant liquid of soil solution & record the reading . in case water 50ml of water is taken in a clean beaker & cell is dipped in it & the reading is recorded.



# Estimation of phosphorus by spectrophotometer

## Solution required –

- 1) 0.5N NaHCO<sub>3</sub> solution – 42g of NaHCO<sub>3</sub> is dissolved in about 900ml distilled water adjust the pH to 8.5 by adding (dil) NaOH or HCl and make the volume 1 ltr by adding distilled water.
- 2) 5.0 N H<sub>2</sub>SO<sub>4</sub> – 140ml of (conc) H<sub>2</sub>SO<sub>4</sub> placed in 1ltr v. Flask dilute with D.W.
- 3) Reagent A – Dissolve 6g of Ammonium molybdate in hot distilled water 0.1954g of Antimony potassium tartarate is dissolved in D.W. separately . place both the solutions in 1000ml v.flask add 500ml 5N H<sub>2</sub>SO<sub>4</sub> and make the volume to 1000cc.
- 4) Solution B – Dissolve 1.056g Ascorbic acid in 200ml of reagent A.
- 5) P-Nitrophenol-0.5g of P-Nitrophenol dissolved in 100ml D.W.

## Drawing of standard graph

### Preparation 100ppm KH<sub>2</sub>PO<sub>4</sub> solution -

KH<sub>2</sub>PO<sub>4</sub> is dried at 60<sup>o</sup>c then 0.4387g of it is weighed accurately. Dissolve it in 500ml D.W. Add 25ml 5N H<sub>2</sub>SO<sub>4</sub> make up the solution to 1000ml. This is 100ppm KH<sub>2</sub>PO<sub>4</sub> solution.

Preparation of 2ppm KH<sub>2</sub>PO<sub>4</sub> solution- 2ml of 1000ppm solution is taken in 100ml v. Flask diluted to get 2ppm solution. From this following standard solution are prepared 0.08, 0.16, 0.24, 0.32, 0.4, 0.48, 0.56, 0.64, 0.72 and 0.8 ppm by taking 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10ml of 2ppm solution in 25ml v. Flask to all these solutions add 5ml 0.5N NaHCO<sub>3</sub> 1-2 drops of P-Nitrophenol and 5N H<sub>2</sub>SO<sub>4</sub> till yellow colour disappears, then add 4ml solution B and then dilute to 25ml with D.W.

All these solution were kept for 1 hr and reading are taken, from these readings a graph is drawn by putting Absorbance on Y-axis VS ppm on X-axis.

## Estimation of nitrogen by kjeldahl's method

### Chemicals required -

- 1) 0.32% KMnO<sub>4</sub> - 3.2g KMnO<sub>4</sub> dissolved in 1 lit distilled water.
- 2) 2.5% NaOH - 25g of NaOH dissolved in 1 lit water.
- 3) Boric acid- 20g of Boric acid dissolved in 900ml water. Added 20ml mixed indicator dilute to 1 lit.
- 4) Mixed indicator- 0.1g Bromo cresol green + 0.07g of methyl red dissolve in 100ml alcohol.
- 5) Liquid paraffin-1ml for each sample.
- 6) 0.1N H<sub>2</sub>SO<sub>4</sub> - 2.7ml of (conc) H<sub>2</sub>SO<sub>4</sub> dissolved in 1 lit D.W. standardise with 0.1 NaOH.

### Procedure -

Weight accurately 10g of soil, place it in the kjeldahl's flask. Then add 5ml liquid paraffin, 2 to 3 boiling chips, 100ml distilled water and 100ml 0.32% KMnO<sub>4</sub> solution. Fit the flask with kjeldahl's trap and place a conical flask containing 25ml Boric acid at the tip of the condenser, see that tip of the condenser dips in Boric acid. All the fittings should be air tight. then add 100ml 2.5% NaOH from the sides and immediately after addition close the cock. Then heat the flask for 1 hr on heating mantle. After 1 hr first remove the flask cool and titrate with 0.1N H<sub>2</sub>SO<sub>4</sub> till the colour changes from green to wine red. the reading is recorded and the nitrogen content of the soil is calculated with the following formula.

### Observation -

- 1) Wt of soil -
- 2) Burette reading -

### Calculation -

$$\text{Available Nitrogen Kg/h} = \frac{[B R] * \{Normality of H_2SO_4\} * (0.014) * (2.24) (10^6)}{Wt \text{ of sample}}$$

Wt of sample

## ESTIMATION OF MICRONUTRIENTS FROM ATOMIC ABSORPTION SPECTROPHOTOMETER

### PROCEDURE –

- 1) Preparation of soil solution - 15gm of dry soil + 30ml DTPA solution – shake it for 2 hours. Then filter to get completely clear solution.
- 2) Preparation of standard solution - For Iron , Cu & Mn – prepare 100ml 1, 2 & 3 ppm solution by taking 1, 2 & 3ml of std 1000ppm Iron solution. For Zn – prepare 100ml 0.2 & 0.4 & 0.6 ppm solutions by taking 0.2 & 0.4 & 0.6 ml of std 1000ppm Zn solution in 100ml volumetric flask & dilute.

### PROCEDURE FOR OPERATING THE AAS MACHINE

- 1) Start the compressor, CPU & AAS machine
- 2) Adjust the compressor air to 10 to 15 atm pressure & acetylene gas pressure to 10atm by operating the knob on the cylinder
- 3) On AAS machine adjust the air pressure to 10 to 15 atm & acetylene gas pressure to 2atm pressure
- 4) Click AAS I-com on monitor then click on com - I . now display appears . then click on index & wait for 5 to 10min.
- 5) Select the required metal & rotate the corresponding bulb & close the door.
- 6) Then adjust the lamp current for Zn & Cu – 5.0 & for Fe & Mn – 7.0
- 7) Now click on peak search & the peak should be above 70%
- 8) EHT should be adjusted to approximately 850 by rotating the knob on AAS.
- 9) When absorbance is above 70% then ignite the flame & once again click on peak search it should be 70% & above . EHT should be around 850.
- 10) Then go to menu- II & dip absorbing pipe in distilled water & zeroing is done & the reading should be zero for distilled water.
- 11) Click on std icon & type number of std solution & their ppm value.
- 12) Take 50ml of std solution place the sucking pipe in it & observe the reading after taking all the three std solution reading observe the graph it should inclined straight line.
- 13) Now place 50ml of soil solution in a beaker & dip sucking pipe & record the reading.
- 14) All the reading should be saved with appropriate number, name & date.

### CLOSING PROCEDURE

- 1) Gas connection is closed
- 2) Air connection is closed
- 3) Now go to menu – I from menu – II & exit.
- 4) Put off lamp current & the main current
- 5) Acetylene gas knob on the cylinder should be closed & put off the compressor.

**NOTE –** While taking soil solution reading the EHT should be around 850 & for different metal samples first zeroing should be done.

# ರೈತ ಮಿತ್ರ ಕೃಷಿ ಅಭಿವೃದ್ಧಿ ಸಂಘ (೨) ಸಂಕೇಶ್ವರ

ಎಮ್. ಪಿ. ಸೊಸಾಯಿಟಿ ಆಝಾದ ರೋಡ್

ಸಂಕೇಶ್ವರ ತಾ : ಹುಕ್ಕೇರಿ ಜಿ : ಬೆಳಗಾವಿ

**ಮಣ್ಣು ಪರೀಕ್ಷಣಾ ಪ್ರಯೋಗಶಾಲೆ ಮಣ್ಣು ಪರೀಕ್ಷಣಾ ವಿವರ**

ಹೆಸರು : **ಪೀಟೀಲ. ಶಿವಾನಿ. ಬಾಳಾಣ್ಣಿ**

ಸರ್ವೆ ನಂ :

ಊರು : **ಉತ್ತರಾಡಿ**

ಬೆಳೆ :

ಕ್ರಮ ಸಂಖ್ಯೆ : **5**

ದಿನಾಂಕ : **13/09/2018**

ಪರೀಕ್ಷಣೆಯ ಪರಿಮಾಣ	ಪ್ರಮಾಣ / ಮಿತಿ	ನಿರೀಕ್ಷಣೆ
1 ಪಿ. ಎಚ್. (PH)	6.5 - 7.5	7.25
2 ಕ್ವಾರ್ಟೆ (Ecds/m)	1.0 ಕ್ಕಿಂತ ಕಡಿಮೆ	0.30
3 ಸಾವಯವ ಕಾರ್ಬನ್ %	0.75 ಕ್ಕಿಂತ ಹೆಚ್ಚು	0.9 %
4 ಫಾಸ್ಪರಸ್ ಕೆ/ ಹೆ (P)	14 - 21	166.0 kg/h
5 ಪೊಟ್ಯಾಶ್ ಕೆ/ ಹೆ	151 - 250	209.4 kg/h
6 ಕ್ಯಾಲ್ಸಿಯಮ್ ಕಾರ್ಬೊನೇಟ್ %	6.0 ಕ್ಕಿಂತ ಕಡಿಮೆ	3.3 %
7 ಕಬ್ಬಿಣ (Fe) ppm	4.6 ಕ್ಕಿಂತ ಹೆಚ್ಚು	27.99 ppm
8 ಮ್ಯಾಂಗನೀಸ್ (mn) ppm	2.0 ಕ್ಕಿಂತ ಹೆಚ್ಚು	209.05
9 ಜಿಂಕ್ (Zn) ppm	0.6 ಕ್ಕಿಂತ ಹೆಚ್ಚು	5.36
10 ತಾಮ್ರ (Cu) ppm	0.2 ಕ್ಕಿಂತ ಹೆಚ್ಚು	9.99
11 ಸಾರಜನಕ (N)		376.0 kg/h
12 ಇತರೆ	Na	127.7 kg/h
13		
14		
15		

ಸಲಹೆ

*(Signature)*

ಮಣ್ಣು ಪರಿಶೀಲಕ



*(Signature)*

**Dr. M. C. Hosur**

Chief Administrator M.Sc.P.H.D.  
Rait Mitra Krishi Abhivrudhhi Sangh, (R) SANKESHWAR, Tal. Hukkeri Dist. Belagavi

## **Conclusion of Soil Analysis**

In soil analysis, there are six processes which are soil sampling technique, determination of texture of soil, determination of water content, determination of organic matter, determination of air content and soil pH. Three type of soil samples are used in soil analysis, which are housing area, pond and farm. The soil are extracted successfully. In the determination of texture of soil, it can be concluded that soil sample from housing area has the highest percentage of stone component whereas soil sample from farm has the highest percentage of sand component. Soil sample from pond has the highest percentage of slit and clay. Meanwhile, in the experiment of determination of water content, soil sample in pond has the highest water content with 22.88 % of water in the soil sample, followed by housing area soil sample (14.77%) and lastly, farm with 14.67% of water content which is very close to the reading of housing area soil sample. In the determination of organic matter, housing area soil has the highest percentage of organic matter (8.90%), followed by pond soil sample with 7.12% of organic matter and finally, farm with 4.02% of organic matter in soil. Besides that, in the determination of air content, farm soil sample has the highest air content which is 48.98% in the soil sample. The second place is housing area soil sample with 39.13% air content. Lastly, pond soil sample has the least air content which is 2.71%. In the determination of pH level of soil sample, soil sample of farm and pond is acidic, which is pH 5 and 6 respectively. However, housing area soil is slightly alkaline which is pH 8



## ACKNOWLEDGEMENT

We the B.Sc. VI Semester student of chemistry, wish to thank our teacher Prof. A.S. Jagnure, Head of the department of chemistry, Prof. G.B. Kumbhar, Prof S. B. Solbannavar, , Prof. Prashant Narawade and Prof. Priyanka Soudi Prof. Padamini Shedabal, Prof. Shrishail Narawade who has encouraged and worked with us in completing this project.

Our teachers of chemistry Department were well co-operative and gave us more relevant information about "SOIL ANALYSIS". And special thanks to Prof. Dr. M. C. Hosur Chief Administrator and Scientific Advisor, Rait Mitra Krishi Abhivrudhi Sangh , Sankeshwar. Who guided us to know more about the analysis and to conduct the practicals. Lastly it was a very unforgettable and highly memorable study tour to all of us.

**Photos at, Rait Mitra Krishi Abhivrudhi Sngh , Sankeshwar**



K. L. E. Society's

**G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI - 591237**



(Accredited by NAAC in 3<sup>rd</sup> Cycle at 'A' Level with CGPA 3.35)

"College with Potential for Excellence"

**DEPARTMENT OF CHEMISTRY**

***Certificate Course in Chemistry***

This is to certify that Mr./Miss. ✓ Ankita Magadum of

**B.Sc. VI Semester** has successfully completed a certificate course in **Soil Analysis**

& Submitted the report during the academic year **2017-18**

  
Head  
Department of Chemistry.



  
Convener

  
PRINCIPAL  
G. I. Bagewadi College, Nipani





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**IQAC INITIATIVE**

**Department of Chemistry**

**REPORT ON :- Certificate Course on Soil analysis**

Name of the Department	Chemistry					
Name of the Event Organized	Guest Lecture					
Title of the Event	Soil Analysis					
Date of the Event Organized	03/03/2018					
Name of the Convener	Shri. P. T. Narawade					
Participants	127					
No. of Participants	Total	127	Teachers	12	Students	80 (PCM) + 35 (CBZ) = 115
Name of the Expert with Designation	Dr. M. C. Hosur, Chief Administrator					
Contact Number & Address of the Expert	Rait Mitra Abhivruddhi Sangh, (R) at Sankeshwar					
Objectives of the Event	1. To understand the different types of soil. 2. To make students to understand the different parameters of soil analysis.					
Outcome of the Event	It enhances the skill of soil analysis and can become self-entrepreneurship.					

**Photo Gallery**



**IQAC Coordinator**

**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

**HOD**

**Department of Chemistry**  
K.L.E.'s G. I. B. College, Nipani.

**Principal**

**PRINCIPAL**  
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G. I. Bagewadi College, Nipani.





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Date: 12/03/2018

**IQAC INITIATIVE**  
**Department of Chemistry**  
**Report**  
**Certificate Course on soil Analysis - 2017-18**

In advancing technology, world needs learning beyond the curriculum. To achieve expectations and results, department of Chemistry has organized 3 months Certificate course in soil analysis during the Academic year 2017-18.

B.Sc. VI semester chemistry students were participated in this certificate course. This academic planning consisting of 16 hours theory and 16 hours of practicals. Dr. M. C. Hosur delivered a talk on soil analysis in our college on 12/03/2018. The classes for soil analysis were conducted from 07/01/2018 to 11/03/2018 as per the schedule of Certificate course by the staff our chemistry department. Many faculty of chemistry department were engaged the classes on water analysis and the students are exposed to the concepts like acidity, turbidity, suspended particles, pH, conductivity etc.

Further extensive practical training on soil analysis to the students was conducted at 'Rait Mitra Krishi Abhivruddhi Sangh', (R) Sankeshwar under the guidance of Dr. M. C. Hosur and his team from 13/03/2018 to 19/03/2018. During practicals students were handled sophisticated instruments like absorption spectrophotometer, pH meter, conductometer, Kjeldahl's apparatus and flame photometer. After the completion of the Certificate Course a written test of 20 marks was conducted & Certificates were issued to the students. 115 students and 12 staff members were present at the function.



  
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**G. I. Bagewadi College, Nipani.**





Dr. M. C. Hosur addressing the students and staff.



Students at 'Rait Mitra Krishi Abhivruddhi Sangh' laboratory and Felicitation to Dr. M. C. Hosur by Principal.

*[Signature]*  
Convenor

*[Signature]*  
HOD  
Head  
Department of Chemistry  
K.L.E'S G. L. B. College, Nipani.

*[Signature]*  
Principal  
G. L. Bagwadi College, Nipani.



# **Department of Hindi**

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ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾನಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲಾ: ಬೆಳಗಾವಿ

KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

Ref : No.

Date : 3/1/2018

## NOTICE

### Department of Hindi

Our Department is conducting a Certificate course from this semester.


The degree students who are willing to join are informed to meet Prof. Shankarmurthy or the H.O.D. Dept of Hindi on or before 03<sup>rd</sup> of January, 2018.

The details are given below.

1. Course : Certificate course in Translation (Kannada/English to Hindi)
2. Duration: Three months

  
PRINCIPAL  
G.I.Bagewadi Arts, Science  
& Commerce College, Nipani



  
Signature of the H.O.D.  
Head  
Department of Hindi  
K.L.E's G. I. B. College, Nipani.  
Dept. of Hindi



**K.L.E.Society's G.I. Bagewadi Arts, Science and Commerce College.  
Nipani**

**Department of Hindi**

**Certificate course in Translation**

**Admission Form**

1. Name of the Student : AKASH AMOL SHINGE
2. Class and Gender : B.com II<sup>nd</sup> sem - male
3. Category : SC-~~ST~~
4. Address for correspondence : A/P. Janwad Tal. Chikodi Dist.  
Belgaum

**Declaration**

I AKASH AMOL SHINGE of Class B.com II<sup>nd</sup> sem. Roll no 02

Hereby declare that if I am admitted to this course, I shall abide by all the rules and I am aware that I am eligible for any disciplinary action which might include expulsion from the course for non compliance with the rules that are in force or any other directive issued by the Dept.

Place : Nipani

Date : 22/01/2018

A.A. Shingega  
Signature of the Candidate





**K.L.E.Society's G.I. Bagewadi Arts, Science and Commerce College.  
Nipani**



**Department of Hindi**

**Certificate course in Translation**

**Admission Form**

1. Name of the Student : AMBUJA. ANIL. JADHAV
2. Class and Gender : B.COM I<sup>st</sup> YEAR [FEMALE]
3. Category : G.M.
4. Address for correspondence : Ram, Nagax Nipani.

**Declaration**

I AMBUJA. A. JADHAV of Class B.COM I<sup>st</sup> Roll no 5

Hereby declare that if I am admitted to this course, I shall abide by all the rules and I am aware that I am eligible for any disciplinary action which might include expulsion from the course for non compliance with the rules that are in force or any other directive issued by the Dept.

Place : Nipani

Date : 18/1/18

Aadhav

Signature of the Candidate



## Department of Hindi

### Certificate Course in Translation 2017-18

Sl.No.	Roll No	Name of the Student	Class
1	02	Akash A. Shinge	B.Com II Sem
2	05	Ambuja A Jadhav	B.Com II Sem
3	08	Ankita A. Koot	B.Com II Sem
4	09	Anikita R. Patil	B.Com II Sem
5	10	Annapurana S. Kadam	B.Com II Sem
6	13	Ashwini S. Nasalapure	B.Com II Sem
7	15	Darshan M. Dandage	B.Com II Sem
8	16	Gurunath K. Mangawate	B.Com II Sem
9	18	Houshali M. Hadakar	B.Com II Sem
10	20	Jooli R. Havale	B.Com II Sem
11	21	Jyotika M. Jadhav	B.Com II Sem
12	23	Kaveri G Hadakar	B.Com II Sem
13	25	Kiran R. Mamadapure	B.Com II Sem
14	27	Kunjal P. Totager	B.Com II Sem
15	31	Megha R. Shendage	B.Com II Sem
16	34	Nikita P. Dhadake	B.Com II Sem
17	38	Omkar D. Koot	B.Com II Sem
18	41	Pallavi S. Ramankatti	B.Com II Sem
19	43	Pooja A. Hanagandi	B.Com II Sem
20	49	Prarthana B. Rodd	B.Com II Sem
21	50	Prateek S. Naduvinamani	B.Com II Sem
22	52	Praveen B. Sadalage	B.Com II Sem
23	53	Rajvardhan R. Patil	B.Com II Sem
24	61	Rutuja A. Kamate	B.Com II Sem
25	63	Sachin S. Badadavar	B.Com II Sem
26	65	Samruddhhi S. Hukkeri	B.Com II Sem
27	67	Sarika M. Zunake	B.Com II Sem
28	68	Sarojani M. Bilikudare	B.Com II Sem
29	69	Satish K. Chavan	B.Com II Sem
30	70	Satish C. Shirole	B.Com II Sem
31	79	Snehal A. Khot	B.Com II Sem
32	82	Soniya S. Bhosale	B.Com II Sem
33	85	Soyama A. Bagawan	B.Com II Sem



P.T.O.

34	88	Suraksha S. Aswale	B.Com II Sem
35	91	Swati S. Hokale	B.Com II Sem
36	92	Swati B. Patil	B.Com II Sem
37	94	Tanjila M. Bagwan	B.Com II Sem
38	95	Vaibhav M. Utture	B.Com II Sem
39	97	Veena M. Alatagi	B.Com II Sem
40	99	Yuvaraj U. Kamate	B.Com II Sem
41	101	Ashwini T. Malage	B.Com II Sem
42	102	Kirti S. Parit	B.Com II Sem



**HOD**

**Head**

**Department of Hindi**  
**KLE's G. I. B. College, Nipani.**



**Principal**  
**PRINCIPAL**

**G.I. Bagewadi Arts, Science**  
**& Commerce College, Nipani**



K.L.E. Society  
G.I. Bagewadi College of Arts, Science and Commerce and P.G. College  
NIPANI-591 237

DEPARTMENT OF HINDI  
CERTIFICATE COURSE IN TRANSLATION  
(ENGLISH - KANNADA - HINDI)


Duration of the Course - 36 Hours in 3 months SEMESTER.

Eligibility : Arts, Science and Commerce Degree Students.  
Course Fees : Rs. 400/-

**COURSE CONTENT :**

- UNIT I : 1.1 अनुवाद की परिभाषा ।  
1.2 अनुवाद का प्रयोजन ।  
1.3 अनुवाद की सीमाएँ ।
- UNIT 2 : 2.1 अनुवादक के गुण ।  
2.2 अनुवाद के भेद ।  
साहित्यिक विधा के आधार पर ।  
2.3 अनुवाद के प्रकार ।  
2.4 अनुवाद की प्रकृति ।  
2.5 भाषिक आधार पर ।
- UNIT 3 : 3.1 कन्नड से हिन्दी अनुवाद की समस्याएँ एवं समाधान ।  
3.2 अंग्रेजी से हिन्दी अनुवाद की समस्याएँ एवं समाधान ।  
3.3 हिन्दी से कन्नड एवं हिन्दी से अंग्रेजी अनुवाद की समस्याएँ एवं समाधान ।
- UNIT 4 : 4.1 साहित्यिक विधा के आधारपर अनुवाद ।  
4.2 गद्यानुवाद, पद्यानुवाद ।  
4.3 बैंकींग अनुवाद ।  
4.4 वैज्ञानिक अनुवाद ।  
4.5 साहित्येतर अनुवाद ।
- UNIT 5 : 5.1 अनुवाद के क्षेत्र में अब तक की गतिविधियों का पुनर्शीलन ।



  
PRINCIPAL  
G.I. Bagewadi Arts, Science  
& Commerce College, Nipani

ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾನಿ - 591237 ಜಿಲ್ಲಾ: ಬೆಳಗಾವಿ

KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

Ref : No.

Date : 3/11/2018


## Department of Hindi

Self financed Certificate course in Translation 2017-18

(Kannada, English to Hindi)

### Time table

Time	9.15	10.30	11.30	12.30	2	3	4
Monday							
Tuesday							
Wednesday	Cert course						
Thursday	Cert course						
Friday							
Saturday							Cert course

  
HOD  
Head  
Department of Hindi  
K.L.E's G. I. B. College, Nipani.



  
Principal  
G.I.Bagewadi Arts, Science  
& Commerce College, Nipani



ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾಣಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲಾ : ಬೆಳಗಾವಿ

KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

Ref : No.

Date : 03-01-2018

## Self Financed Certificate Course in Translation

Kannada, English to Hindi: 2017-18

Class	Duration	Total Hours	Girls	Boys	Total Strength	Fee
DEGREE	3 MONTHS	36	29	13	42	Rs.100

H O D

Head

Department of Hindi  
K.L.E's G. I. B. College, Nipani.

Principal  
PRINCIPAL

G.I.Bagewadi Arts, Science  
& Commerce College, Nipani



## Department of Hindi

### Certificate Course in Translation 2017-18

Sl.No.	Roll No.	Name of the Student	Marks
1	02	Akash A. Shinge	45
2	05	Ambuja A. Jadhav	48
3	08	Ankita A. Koot	47
4	09	Anikita R. Patil	48
5	10	Annapurana S. Kadam	46
6	13	Ashwini S. Nasalapure	48
7	15	Darshan M. Dandage	50
8	16	Gurunath K. Mangawate	49
9	18	Houshali M. Hadakar	30
10	20	Jooli R. Havale	50
11	21	Jyotika M. Jadhav	49
12	23	Kaveri G. Hadakar	47
13	25	Kiran R. Mamadapure	50
14	27	Kunjal P. Totager	49
15	31	Megha R. Shendage	50
16	34	Nikita P. Dhadake	50
17	38	Omkar D. Koot	50
18	41	Pallavi S. Ramankatti	50
19	43	Pooja A. Hanagandi	50
20	49	Prarthana B. Rodd	50
21	50	Prateek S. Naduvinamani	49
22	52	Praveen B. Sadaige	50
23	53	Rajvardhan R. Patil	45
24	61	Rutuja A. Kamate	50
25	63	Sachin S. Badadavar	45
26	65	Samruddhi S. Hukkeri	48
27	67	Sarika M. Zunake	46
28	68	Sarojani M. Bilikudare	41
29	69	Satish K. Chavan	50
30	70	Satish C. Shirole	50
31	79	Snehal A. Khot	50
32	82	Soniya S. Bhosale	50
33	85	Soyama A. Bagawan	50



34	88	Suraksha S. Aswale	50
35	91	Swati S. Hokale	50
36	92	Swati B. Patil	45
37	94	Tanjila M. Bagwan	45
38	95	Vaibhav M. Utture	48
39	97	Veena M. Alalagi	50
40	99	Yuvaraj U. Kamate	50
41	101	Ashwini T. Malage	49
42	102	Kirti S. Parit	50



**HOD**

**Head**  
Department of Hindi  
K.L.E's G. I. B. College, Nipani.



**Principal**  
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G.I. Bagewadi Arts, Science,  
Commerce & PG College, Nipani



KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum  
Department of Hindi - Certificate course in Translation  
Kannada, English to Hindi 2016-17

Duration: 60mnts

Marks: 40

**I. इन प्रश्नों का उत्तर लिखिए ।**

1x10=10

१. अनुवाद की पहली आवश्यकता ..... है ।  
अ) योग्य शब्द आ) शब्द संचय इ) उचित शब्द भंडार
२. अनुवाद आज के युग की एक ..... आवश्यकता है ।  
अ) युग की जरूरत आ) बहुत इ) अनिवार्य
३. किसी एक भाषा का विषय दूसरी भाषा में ..... अनुवाद है ।  
अ) रूपांतर आ) परिवर्तन इ) बदलाव
४. भाषाविद नायडा के अनुसार अनुवाद के ..... स्वरूप है ।  
अ) एक आ) दो इ) तीन
५. संस्कृत में ..... के रूप में ही अनुवाद को परिभाषित किया है ।  
अ) रिच्हीजन आ) पुनकथन इ) भाषांतर
६. बातचीत, पत्राचार और धर्म में ..... का बहुत महत्व है ।  
अ) भाषांतर आ) रूपांतर इ) अनुवाद
७. शिक्षा का क्षेत्र ..... के बिना आगे नहीं बढ़ता ।  
अ) शब्द आ) वाक्य इ) अनुवाद
८. अंतरराष्ट्रीय स्तर पर विज्ञान तथा तकनीकी क्षेत्र में अनुवाद ..... हो गया है ।  
अ) आवश्यक आ) जरूरत इ) योग्यता सूचक
९. .... आदि संचार माध्यमों में अनुवाद अनिवार्य हो गया है ।  
अ) रेडियो, दूरदर्शन, समाचार पत्र आ) व्यवसाय में इ) व्यापार वृद्धि में
१०. अनुवाद के लिए महत्वपूर्ण क्षेत्र ..... है ।  
अ) कविता आ) नाटक इ) साहित्य

**II. किन्हीं दो प्रश्नों का उत्तर लिखिए ।**

2x5=10

११. अनुवाद की परिभाषा लिखिए ।
१२. गद्य-पद्य के आधार पर अनुवाद के प्रकार लिखिए ।
१३. अनुवाद संबंधी समस्याओं के समाधान लिखिए ।

**III. हिंदी में अनुवाद कीजिए ।**

1x20=20

We are also told that Ajatashatru fortified his capital Rajagriha, in expectation of an attack about to be made by the king of Pradyala of Ujjani. It would be most interesting to know whether the attack was ever made, and what measure of success it had. We know that afterwards in the fourth century B.C Ujjani had become subject to Magadha and the Ashoka then a young man was appointed governor of Ujjani.



K.L.E SOCIETY'S

G.L. Bagewadi Arts, Science & Commerce College. Nipani

CERTIFICATE COURSE IN TRANSLATION 2017-18

(KANNADA, ENGLISH TO HINDI)

Time : 90 Mnts

Course Examination

Marks :50

प्रश्न । इन प्रश्नों का उत्तर लीखिए ।

1x10=10

- 1) अनुवाद आज के युग की एक \_\_\_\_\_ आवश्यकता है ।  
अ) युग की जरूरत आ) बहुत इ) अनिवार्य
- 2) किसी एक भाषा का विषय दूसरी भाषा में \_\_\_\_\_ अनुवाद है ।  
अ) रूपान्तर आ) परिवर्तन इ) बदलाव
- 3) भाषाविद नायडा के अनुसार अनुवाद के \_\_\_\_\_ स्वरूप है ।  
अ) एक आ) दो इ) तीन
- 4) अनुवाद की पहली आवश्यकता \_\_\_\_\_ है ।  
अ) योग्य शब्द आ) शब्द संचय इ) उचित शब्द भंडार
- 5) संस्कृत में \_\_\_\_\_ के रूप में ही अनुवाद को परिभाषित किया है  
अ) रिक्वीजन आ) पुनःकथन इ) भाषांतर
- 6) बातचीत पत्राचार और धर्म में \_\_\_\_\_ का बहुत महत्व है ।  
अ) भाषांतर आ) रूपान्तर इ) अनुवाद
- 7) शिक्षा का क्षेत्र \_\_\_\_\_ के बिना आगे नहीं बढ़ता है ।  
आ) शब्द आ) वाक्य इ) अनुवाद
- 8) \_\_\_\_\_ आदि संचार माध्यमों में अनुवाद अनिवार्य हो गया है ।  
अ) रेडियो, दूरदर्शन, समाचार पत्र आ) व्यवसाय में इ) कोई नहीं
- 9) अंतरराष्ट्रीय स्तर पर विज्ञान तथा तकनीकी क्षेत्र में अनुवाद \_\_\_\_\_ हो गया है ।  
अ) आवश्यक आ) जरूरत इ) योग्यता सूचक
- 10) अनुवाद के लिए \_\_\_\_\_ महत्वपूर्ण क्षेत्र है ।  
अ) कविता आ) नाटक इ) साहित्य

प्रश्न। किन्ही दो प्रश्नों का उत्तर कीजिए ।

5x2=10

- 11) अनुवाद की परिभाषा लिखिए ।
- 12) अनुवाद -प्रकृति के आधार पर अनुवाद के प्रकार लिखिए ।





13) अनुवाद संबंधी समस्याओं और समाधानों के बारे में विवरण दीजिए।

14) साहित्य के आधार पर अनुवाद के प्रकार लिखिए।

प्रश्न III इन शब्दों के पारिभाषिक शब्द लिखिए ।

2x5=10

15) Order 16) Officer 17) Employee 18) Application 19) Donation

प्रश्न IV हिन्दी में अनुवाद कीजिए ।

1x20=20

Traveling develops our knowledge and outlook. We can improve ourselves by adopting the good method followed by various nations. Travelling really helps the advancements of civilization.

प्रवास नमू ज्ञानमत्तु दृष्टि कोणवन्नु विकसणोशिसुत्तदं. बरेर देशगळु अनुसरिसुत्तिरुव  
लुत्तम विधानगळन्नु अलवडिसिकोणु प्रगतिहोणुद बहूदु. नागरिकलयु प्रगति होणुदलु प्रवासवु  
निजक्यु सहಾಯकारि.



K.L.E. Society's

G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237

**CERTIFICATE COURSE OF TRANSLATION**  
**KANNADA, ENGLISH TO HINDI**

Hours : 01

अंक : 30

सवाल नं. 01

02 X 10 = 20

1. अनुवाद आज के युग की एक ----- आवश्यकता है।  
I. युग की जरूरत      2. बहुत      3. अनिवार्य ✓
2. किसी एक भाषा का विषय दूसरी भाषा में ----- अनुवाद है।  
I. रूपान्तर      2. परिवर्तन      3. बदलाव
3. भाषाविद नायडा के अनुसार अनुवाद के ----- स्वरूप है।  
I. एक      2. दो      3. तीन ✓
4. अनुवाद की पहली आवश्यकता है।  
I. योग्य शब्द      2. शब्द संचय      3. उचित शब्द भंडार ✓
5. संस्कृत में ----- के रूप में ही अनुवाद को परिभाषित किया है।  
I. रीन्कीजन      2. पुनःकथन      3. भाषांतर
6. बातचीत पत्राचार और धर्म में ----- का बहुत महत्व है।  
I. भाषांतर      2. रूपांतर      3. अनुवाद ✓
7. शिक्षा का क्षेत्र ----- के बिना आगे नहीं बढ़ता  
I. शब्द      2. वाक्य      3. अनुवाद ✓
8. आंतरराष्ट्रीय स्तर पर विज्ञान तथा तकनीकी क्षेत्र में अनुवाद ----- हो गया है।  
I. आवश्यक      2. जरूरत      3. योग्यता सूचक ✓
9. ----- आदि संचार माध्यमों में अनुवाद अनिवार्य हो गया है।  
I. रेडियो, दूरदर्शन, समाचार पत्र      2. व्यवसाय में      3. छायापार वृद्धि ✓
10. अनुवाद के लिए महत्वपूर्ण क्षेत्र है।  
I. कविता      2. नाटक      3. साहित्य ✓

पीछे...



**Q.No 02** ಹಿಂದಿನಲ್ಲಿ ಅನುವಾದ ಮಾಡಿರಿ.

10

**Travelling develops our knowledge and outlook. We can improve ourselves by adopting the good methods followed by various nations. Travelling really helps the advancement of civilization.**

ಪ್ರವಾಸವು ನಮ್ಮ ಜ್ಞಾನ ಮತ್ತು ದೃಷ್ಟಿ ಕೋನವನ್ನು ವಿಕಾಸ ಗೊಳಿಸುತ್ತದೆ. ಬೇರೆ ದೇಶಗಳು ಅನುಸರಿಸುತ್ತಿರುವ ಉತ್ತಮ ವಿಧಾನಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಪ್ರಗತಿ ಹೊಂದ ಬಹುದು. ನಾಗರಿಕತೆಯು ಪ್ರಗತಿ ಹೊಂದಲು ಪ್ರವಾಸವು ನಿಜಕ್ಕೂ ಸಹಾಯಕಾರಿ

K.L.E. Society's

**G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI - 591 237.**



(Re-accredited at 'A' Level by NAAC with CGPA 3.35)

College with Potential for Excellence

**EXAMINATION**



Class : B.Com I<sup>st</sup> year

Subject : HINDE

Roll No. : 02

Date : 27/05/2018

Marks Scored : 45  
50

Test : Certificate course

Signature of Valuer

Signature of the Invigilator with date

प्र - I

- 1) इ) अनिवादा
- 2) अ) रूपान्तर
- 3) इ) तीन
- 4) इ) अचित शान शक्ति
- 5) आ) पुनः कथन
- 6) इ) अनुवाद
- 7) इ) अनुवाद
- 8) आ) रेडियो, सुरक्षा, समाचार पत्र
- 9) अ) आवश्यक
- 10) इ) साहित्य

प्र - II

11) अनुवाद की परिभाषा  
 अनुवाद (translation) शब्द संस्कृत का है जिसके मूल में वद  
 शब्द है। वद से लक्षण है। अर्थात् वद शब्द का अर्थ है, वद  
 वद शब्द में 'वद' प्रत्यय जुड़ने पर 'वद' शब्द में



(वद + धव - वाद, बनता है। वाद शब्द में वद  
 पिथ वद में धव अनु- वतिवा वाद अथा  
 में प्रभुत्व हीन वामे अनु उपभवा लभते मे  
 अनुवाद शब्द बनता है। अनुवाद का मूल अर्थ है  
 इकायी के कहने के पश्चात् कहना अथवा पुनः  
 कथन। कोश के अनुसार अनुवाद का अर्थ है -  
 पहले कहे गये अर्थ को फिर से कहना।  
 अनुवाद शब्द का प्रयोग लघु के आधार पर  
 के अष्टाध्यायी में मिलता है:

एक भाषा में व्यक्त विचार  
 को व्यपञ्चाल समान और बहुत अर्थवाचक द्वारा दूसरी  
 भाषा में व्यक्त करने का प्रयास अनुवाद है।  
 अक्षर से कहना ही तो "स्वतः भाषा में मूल  
 वाद के अर्थ को लक्ष्य भाषा के परिभाषित  
 वाद के रूप में व्यपञ्चाल करना अनुवाद है।"

12) अनुवाद - प्रकृति के आधार पर

- 1) मूलविषय अनुवाद :-
- 2) मूलमुक्त अनुवाद :-
- 3) शब्दानुवाद :-
- 4) शब्दानुवाद :-
- 5) शब्दानुवाद :-
- 6) शब्दानुवाद :-
- 7) व्याख्यानानुवाद :-
- 8) आदर्श अनुवाद :-
- 9) व्यपञ्चाल :-
- 10) वाचानुवाद :-

प्र-III

- 15) Order - आदेश
- 16) अधिकार - अधिकार



17) Employee — कर्मचारी

18) Application — आवदन

19) Donation — दान

प्र-IV

20) यह हमारे जाति और नस्ल की  
विकासीत काम है। हम विभिन्न देशों के  
अच्छे तरीके को अपनकर साथ ही  
बहुत बड़ा सफल हो सका है।  
सुधारी करने के लिए साथ ही  
में सहायक है।



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**G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI - 591 237.**



(Re-accredited at 'A' Level by NAAC with CGPA 3.35)

College with Potential for Excellence

**EXAMINATION**



Class : B.COM II<sup>nd</sup> Sem.

Subject : Hindi

Roll No. : 5

Date : Hindi. 28/3/18

Marks Scored : 48/50

Test : Course Exam

Signature of Valuer

Signature of the Invigilator with date

no I

- 1) इ) अनिवार्य
- 2) अ) कर्पांतर
- 3) इ) तीन
- 4) इ) उचित शब्द अंडार
- 5) अ) पुनः कथन
- 6) इ) अनुवाद
- 7) इ) अनुवाद
- 8) अ) रेडियो, दूरदर्शन, समाचार, पत्र
- 9) अ) आवश्यक
- 10) इ) साहित्य

5

11) अनुवाद (Translation) शब्द संस्कृत का है जिसके मूल में 'वद' धातु है। 'वद' से तात्पर्य है बोलना, बात करना। इस 'वद' धातु में 'धल' प्रत्यय जुड़ने से 'वाद' शब्द में (वद + धल = वाद) बनता है। 'वाद' शब्द में पीछे, 'वा' में ह्रस्व अनुचरिता आदि अर्थों में प्रयुक्त होने वाले 'अनु' उपसर्ग लगाने से 'अनुवाद' शब्द बना है। अनुवाद का मूल अर्थ है 'किसी के कहने के पश्चात् कहना' अथवा पुनः कहना। कोश के अनुसार अनुवाद का अर्थ है - पहले कहे गये अर्थ को फिर से कहना। अनुवाद शब्द का प्रयोग संस्कृत के आचार्य पाणिनि के अष्टाध्याय में मिलता।

12) अनुवाद प्रकृति के आधार पर अनुवाद का प्रकार

1) मूलनिष्ठ अनुवाद

2) मूलमुक्त अनुवाद

3) शब्दानुवाद

4) भावानुवाद

5) छायानुवाद

6) सभानुवाद

7) व्याख्यानानुवाद

8) आदर्श अनुवाद

9) कर्पांतरण

10) वार्तानुवाद



प्रती

- 15 (3) Order - आदेश ✓  
16 officer - अधिकारी ✓  
17 Employee - कर्मचारी ✓  
18 application आवेदन ✓  
19 Denation = दान ✓

प्र - 4

20) यात्रा हमारे ज्ञान और दृष्टिकोण को विकसित करती है। अन्य देशों को अपनाय हुए उत्तम विद्वानों को अपना कर हम अपने देश की प्रशंसा कर सकते हैं। नागरिकताओं के प्रवर्तन के लिए आधुनिकता या यात्रा सच में सहायक रही है।



KLE Society's

# G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI

Department of Hindi



## Certificate

This is to Certify that M/Ms Megha R. Shendage  
of B.com - II Sem has Completed \*Certificate Course in  
Translation (English - Kannada to Hindi) During The Year 2017- 2018.

  
Head of Department



  
Principal  
K. L. E. Society's





K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-  
591237

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: [www.kleibnnpn.edu.in](http://www.kleibnnpn.edu.in) E-mail: [kleibnnpn@yahoo.co.in](mailto:kleibnnpn@yahoo.co.in) Ph.: 08338-220116


DATE -20/4/2017

## DEPARTMENT OF HINDI

### REPORT ON CERTIFICATE COURSE

Department of Hindi has organized 3 months Certificate course on translation. In this course students did translation from English/ Kannada to Hindi. for B.A., B.Sc., B.Com. Students of our College. This course helped the students to have Command over Hindi language and other language too. During 2016-17 year 22 students were benefited. And this Certificate course classes conducted by Prof. Haseena Attar

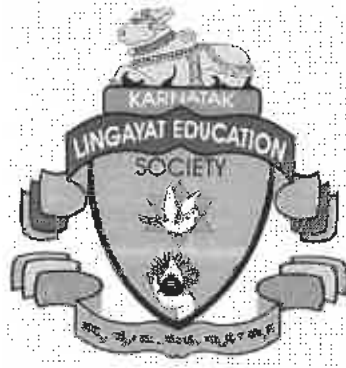
  
**IQAC CO-ORDINATER**  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
**HOD**  
Head  
Department of Hindi  
K.L.E's G. I. B. College, Nipani.

  
**PRINCIPAL**  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



IV 4



**K.L.E. Society's**

**G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI**

**DEPARTMENT OF COMMERCE**

**CERTIFICATE COURSE  
IN  
BUSINESS CORRESPONDENCE**



**2017-18**



K.L.E. Society's  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

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Date: 27.12.2017

## Department of Commerce

### NOTICE

The Department is going to commence certificate course in Business Correspondence for the academic year 2017-18. Interested students of B.com IV Semester are hereby informed to enroll their names in the department on or before 1st January, 2018.

  
Convener

  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





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## Department Of Commerce

### Enrollment form (2017-18)

To,

Head of the Department Commerce,


KLE's G.I. Bagewadi College, Nipani.

Application for the certificate course in Business Correspondance.

#### PARTICULARS OF APPLICANT

1. Name : Shruthi Ammanavas
2. Class : B.com IV Sem
3. Address for Correspondence : A/P : Pattankudi
4. Contact No. : 7090084108
5. E-Mail : —

Date: 28/12/2017.

  
Signature of the Applicant





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## Department Of Commerce

### Enrollment form (2017-18)

To,

Head of the Department Commerce,

KLE's G.I. Bagewadi College, Nipani.

Application for the certificate course in Business Correspondence

#### PARTICULARS OF APPLICANT

1. Name : Abuli Todakar
2. Class : B.com III Sem
3. Address for Correspondence : ALP : Yamagarani  
Tal : Chikodi Dist: Belagavi
4. Contact No. : 7090885531
5. E-Mail : \_\_\_\_\_

Date:

Abulakar  
Signature of the Applicant





**Certificate Course In Business Correspondence**  
**STUDENT LIST**

1. Ms.Shewta Chougule	B.Com IV Sem
2. Ms.Nameshwari Kadam	"
3. Ms.Samreen Tahsildar	"
4. Ms.Supriya Keragute	"
5. Mr.Akash Ghugare	"
6. Mr.Vinayak Neje	"
7. Mr.Santosh Khot	"
8. Mr.Amar Patil	"
9. Mr.Rohan Tikane	"
10. Ms.Shruti Vijapure	"
11. Ms.Tejaswree Patil	"
12. Ms.Sangeeta Kamate	"
13. Ms.Snehal Chillai	"
14. Ms.Arati Marade	"
15. Ms.Tejaswini Hande	"
16. Ms.Rutuja Jadhav	"
17. Ms.Vrushali Patil	"
18. Ms.Tejaswini Desai	"
19. Ms.Soumyashree Chougule	"
20. Ms.Neelam Jadhav	"
21. Ms.Shruti Ammannavar	"
22. Ms.Abuli Todakar	"
23. Ms.Nikita Sabkale	"
24. Ms.Ramya Dharanagutte	"
25. Ms.Jyoti Jakate	"
26. Ms.Aishwarya Kamate	"
27. Ms.Deepali Kone	"
28. Ms.Rameshwari Patil	"
29. Ms.Shweta Chougule	"
30. Mr.Manthan Shintre	"
31. Mr.Amrut Bijale	"
32. Mr.Akash Patil	"



  
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**KLE's**  
**G.I.Bagewadi Arts, Science & Commerce College, Nipani**  
**Department of Commerce**

**Certificate Course In Business Correspondence**

**Course Objectives**

**Introduction**

The ability to communicate effectively plays a major role in achieving career success. Technological advancements have increased the need for skilled communicators, and employers state that the application of acceptable communication skills is essential for a workforce to survive in a competitive, global environment. This course is designed to provide the student with those skills.

**Course Objectives**

1. Enable the student to recognize the relationship of effective communications skills to success in academic, work and social environments.
2. Develop both written and oral communication skills to produce clear, complete, accurate messages.
3. Understand message strategies and formats appropriate for professional communication situations.
4. Develop and apply critical thinking skills when determining solutions for communication-related problems.



  
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**KLE's**  
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**Department of Commerce**

**CERTIFICATE COURSE**  
**IN**  
**BUSINESS CORRESPONDENCE**

**Course Syllabus**

**Unit I**

**Introduction :**

**5 Hours**

Meaning & definition, need for business correspondence, functions of business correspondence.

**Unit II**

**Business Letters:**

**5 Hours**

Meaning & definition, essentials of a good business letter, physical properties of a good business letter, planning a business letter.

**Unit III**

**Structure & Layout of Business letter:**

**10 Hours**

Heading, Date, Reference, Subject, Inside address, Salutation, Body of Letter, Complimentary close, Signature, Enclosures, Post Script, Copy circulation. Layout – Block form, Semi block form, Indented form, Hanging indented form. Examples of business letters.

**Unit IV**

**Business Email Writing:**

**10 Hours**

Email or letter, General etiquette, Structure, Templates, Formatting, Greeting and Sign Off, Example Emails, Use the Correct Tone, Golden Rules of Email Writing.



  
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## Department of Commerce

### Certificate Course In Business Correspondence

#### STAFF LIST

1. Prof. B.M.Hiremath.
2. Prof. C.V.Koppad.
3. Prof. S.A.Deshpande.



  
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KLE's  
G.I.Bagewadi Arts, Science & Commerce College, Nipani  
Department of Commerce

**Certificate Course In Business Correspondence**

**TIME - TABLE**

Day	Time	Faculty
Monday	4.00 - 5.00 pm	Prof. B.M.Hiremath
Wednesday	4.00 - 5.00 pm	Prof. C.V.Koppad
Friday	4.00 - 5.00 pm	Prof. S.A.Deshpande
Saturday	4.00 - 5.00 pm	Prof. C.V.Koppad / Prof. S.A.Deshpande

**Duration: 30 Hours & 10 Hours Practicals.**

**Work Load:**

1. Prof. B.M.Hiremath : Module - I ( 5 hours)
2. Prof. C.V.Koppad : Module - II & III ( 12 hours )
3. Prof. S.A.Deshpande : Module - III & IV ( 13 hours )



  
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Department of Commerce

**Certificate Course In Business Correspondence  
RESULTS SHEET**

S.No	Name of the student	Marks obtained ( Out of 50)
1	Ms.Shewta Chougule	44
2	Ms.Samreen Tahsildar	47
3	Ms.Supriya Keragute	45
4	Mr.Akash Ghugare	Ab
5	Mr.Vinayak Neje	46
6	Mr.Santosh Khot	46
7	Mr.Amar Patil	45
8	Mr.Rohan Tikane	47
9	Ms.Shruti Vijapure	48
10	Ms.Tejaswini Patil	49
11	Ms.Sangeeta Kamate	44
12	Ms.Snehal Chillai	45
13	Ms.Arati Marade	46
14	Ms.Tejaswini Hande	45
15	Ms.Rutuja Jadhav	Ab
16	Ms.Vrushali Patil	Ab
17	Mr.Manthan Shintre	44
18	Ms.Soumyashree Chougule	45
19	Ms.Neelam Jadhav	Ab
20	Ms.Shruti Ammannavar	45
21	Ms.Abuli Todakar	Ab
22	Ms.Nikita Sabkale	40
23	Ms.Ramya Dharanagutte	Ab
24	Ms.Jyoti Jakate	44
25	Ms.Aishwarya Kamate	43
26	Ms.Deepali Kone	46
27	Ms.Rameshwari Patil	45
28	Ms.Namwshwari Kadam	46
29	Mr.Amrut Bijale	Ab
30	Mr.Akash Patil	Ab
31	Ms.Tejaswini Desai	42
32	Ms.Shweta Chougule	Ab



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PRINCIPAL

KLE'S  
G.I.BAGEWADI COLLEGE NIPANI  
BUSINESS CORRESPONDENCE

**Duration : 2 Hours**

**Marks : 50**

Answer the following questions

1. Write a complaint letter to the Municipal commissioner for the sanitation problems your town. 20 marks
2. As a commerce post graduate passed in distinction, prepare Resume for the post of Finance Manager in a multinational company. 10 marks
3. As a HR manager of a company draft a report on absenteeism among the employees. 20 marks

KLE'S  
G.I.BAGEWADI COLLEGE NIPANI  
BUSINESS CORRESPONDENCE

**Duration : 2 Hours**

**Marks : 50**

Answer the following questions

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G.I.BAGEWADI COLLEGE NIPANI  
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Answer the following questions

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EXAMINATION

Class : B.com ~~V~~ IV<sup>th</sup> Sem Subject : Business correspondence

Roll No. : 01 Date :

Marks Scored : 48/50 Test :

Signature of Valuer

Signature of the Invigilator with date

1.

complaint letter

from

Person

xyz

Alp - Nipani

Date - 23/10/2017

To,

ABC,

Municipal Commissioner,

Nipani

Subject :- Irregular supply of water

~~Respected sirs,~~

Respected sirs,

I am xyz, resident of Nipani. I am living in Ashoknagar. There is a major problem of supply of water. There is irregular supply of water to our town. We have to go for long to search water. Women's & childrens are to walk for long distance to get water.

In our area many peoples are going for job. They are not home at when the water is come. The water is come at any time, there is no time fixed for the water supply. They supply the water once in a week. there is more trouble facing the peoples.

For the purpose of water the peoples are going 2-3 km from their native place. And they get water. It is more troublable.

I request you to regular supply of water in our area. It is humble request.

Thanking you.

Yours faithfully,

xyz





2. Resume:-

From,  
Abhishek ~~R. Patil~~ Patil,  
A/P - Borwad,  
Dist - Belgawn.

Date:- 22/10/2017

To,  
Devesh Ranavat,  
Managing Director,  
ISM Company,  
Station Road,  
Jayasingpur.

Subject:- For the post of Accounts Manager.  
Reference:- Tarun Bhorat, on the date 20/10/2017.

Respected Sir,

I am Abhishek Patil, I am completed post graduation in distinction in Rani Channamma University. I want to serve my services to your company. I enclosed my resume.

Resume:-

Name:- Abhishek R. Patil.

Date of Birth:- 18-8-1996.

Address:- A/P - Borwad,

Tal - Chikkodi, Dist - Belgawn.

~~KASA~~

educational Qualification:-

Sl.No.	Course	%	Result	University
1.	Commerce	88%	distinction	KLE'S G.I. Bagewadi.



2.	B.com	95%	Distinction	college, Nipani Rani channamma University, Belgavi.
3.	M.BA	96%	Distinction	Rani channam- ma University, Belgavi.

Other knowledge :- computer, Tally.  
Languages known :- Kannada, English, Marathi,  
Hindi.

Hobbies :- Reading Books, music, story books,  
singing etc.

\* Reference :-

1. Dr. Nagesh Patil  
Alp - Kagal  
Mob - 8942263821

2. ~~Dr.~~ Adv. Sagari Chougale.  
Alp - Nipani  
Mob - 9122620038

I hereby declare that the above mentioned  
information are true to my knowledge and beliefs.  
If you give me one chance to serve my services,  
I will do my work honorably. I request you to  
give me a chance.

Thanking you.

Yours Faithfully,  
Abhishek R. Patil.



3. Report:-

From,  
Archana R. Kolhapure,  
App. ~~Sangali~~  
Station Road,  
Sangali.

Date:- 24/9/2017

TO  
Rajendra Patil, ~~Kolhapure~~  
Manager,  
Pepsi. company,  
Stat backside of Station Road,  
Jaysingpur.

Subject :- com report about the absenteeism among the employees.

Respected sir, the HR manager  
I am the manager supervisor of your company. There is some problems in working system of machine. I keep all records of workers who are existing all prospective employees. Now a days the absenteeism among employees are increased. We have to stop this beha wear beha-  
viour of employees.

The following are the reasons they are taking leave without inform. us:-

1. To Bus Problem.
2. Any family functions.
3. Any family problems.
4. Financial problems.
5. Weakness of employees.

6. Tradition or Festivals
7. To take more time in lunch break. etc.

I am reporting you all these and requested you to take an action on all these behaviour of employees. It is request to you to take an strict action. Because it causes to decrease the financial position of our company.  
Thanking you.

Yours Faithfully,  
Archana P. Kolhapure.

18



## EXAMINATION

Class : B.Cdm - IV Sem. Subject : Business correspondence  
 Roll No. : 06 Date : 27/10/18  
 Marks Scored : 45/50 Test :

Signature of Valuer

Signature of the Invigilator with date

1. complaint letter to the municipal Commissioner  
 From.

A. B. Petil  
 Adarsh Nagar  
 1st cross

Sankeshwar - 591313

Date :- 27/10/18

To,

A. B. C.

The municipal Commissioner,

Respected sir / madam,

Subject: The irregular supply of water reg.  
 Ref: -

We, the inhabitant of have to inform you that the supply of water through pipe lines in our area has been extremely inadequate for which the inmates of families of every house have been suffering beyond description. During Summer Season in particular when requirement of water is more. Suffering of the people for want of water, kneed on heads.

The reason for shortage of water is the increase in the number of

people in our area on account of  
unusual growth of flats. The  
problem of scarcity of water has  
been precipitated due to disbalancing  
in the supply and requirement of  
water which is passing through  
smaller diameter of water pipes for  
the last many months.

Under Circumstance we  
would request you to arrange to take  
immediate action in this matter  
on war footing so as to alleviate  
the distress of the inhabitants  
of the area for want of water.

Thanking you,

Yours faithfully,  
A. B. Patil  
(Amit)

Date: 27-10-18  
Place: Sanbeshwar







②

## Resume for the post of Accounts manager. Resume

Name:- Amar B. patil

Address:- Alp Sankestwar

Tal: Hukkeri Dist.: Belgavi.

pincode: 591313

(Karnataka)

Date of birth: 10-12-1998

Contact info :-

mobile :- 8618343420

Email ID: patilamar@16@gmail.com.

### Academic qualification

Examination	Board	Year	marks obtained
S.S.L.C	K.S.E.E.B	2012	85%
P.U.C	K.S.H.E.B	2014	80%
B.com	P.C.D	2018	90%

### Technical qualification's

- Ms office, tally package, Accounting on ERP
- completed ICAIC modular Computer training.

### work experience:-

- i) Computerization of income for individual, firms professionals & companies
- ii) Tax audit for individuals, firm & companies
- iii) Knowledge of VAT audit & Related work
- iv) Accounting of trading - firms professionals

### Works exposure:-

Articled assistant at :- X.Y.Z & co

worked with : X.Y.Z & co.

## Areas of Interest.

- Financial management & investment planning
- Evaluating the likelihood of future events
- valuation and analysis of financials.

## Awards / Achievements

- certificate from NIIT on Successful completion of 70 hours training from NIIT Delhi.
- National mathematics Olympiad merit certificate in IX By Delhi association of mathematics teachers.

## personal traits :-

- Hard working
- Ability to take challenging job.
- Goal oriented

## personal details :-

father's name :- Mr. Babugau da patil

Date of birth :- 10/12/1998

Gender :- male

marital status :- Single

Hobbies :- I love music, ~~Reading~~ ~~Books~~ Reading Book

language :- English, Kannaada, Hindi

## Declaration :-

I declare that the above information is true and correct to best of my knowledge and belief.

Place :- sankeshwar

Date :- 27/10/18

*Anil*  
Signature

3

## Report Writing

From

H.R manager

organisation name:- Patil group of industries  
Bangalore

Date: 27/10/18

To

patil group of industries

Sub:- Report on absenteeism among employees

Respected Sir:-

I am the H.R manager of our company. As a manager I keep record of all workers who are existing of prospective employees now a days the absenteeism among employees are increased, we have to stop this behaviour of employees.

Following are points when employees are more absent.

i) In our company Separated Supervision who keeps observation on employees because if no

ii) when employee is buying some personal work they receive object the with all information to employees use have to stop the

Thanking you,  
Yours faithfully,  
-Amar. Patil

~~-Amit~~

17





K.L.E. Society's

# G. I. Bagewadi Arts, Science & Commerce College, Nipani

College with Potential for Excellence

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

*Department of Commerce*

*Certificate*

This is to certify that Mr. / Ms. Sangeeta Kamate  
of B.Com IV Sem has successfully completed Certificate Course  
in Business Correspondence during the year 20 - 20 & obtained Grade\_\_\_\_\_.

Head of the Department



Principal

G. I. Bagewadi College, Nipani





K.L.E. Society's  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: [www.klegibnnpn.org](http://www.klegibnnpn.org) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

Department of Commerce  
**Certificate Course on Business Correspondence**

**Report (2017-18)**

The ability to communicate effectively plays a major role in achieving career success. Technological advancements have increased the need for skilled communicators, and employers state that the application of acceptable communication skills is essential for a workforce to survive in a competitive, global environment. To address and realize above needs Department of Commerce has formulated Certificate Course in "Business Correspondence" for the academic year 2017-18. Thirty two students have actively enrolled for the course. The course consists of 30 hours theory and 10 hours of practical. Classes were conducted from 1st January, 2019 to 22nd March, 2019. After the completion of the course written test was held for 50 marks and certificates were issued to the students.

  
Convener

  
Head  
Department of Commerce  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



IV 5



**KLE Society's**

**G.I.Bagewadi Arts, Science, Commerce Degree & P G College, Nipani-591237.**

**District: Belagavi. KARNATAKA**

*Re-Accredited at 'A' level by NAAC with CGPA 3.35*

Phone Number: 08338 220116

E-Mail ID: klegib\_npn@yahoo.co.in

Fax Number: 08338 220116

Website URL: [www.klegibcollege.org](http://www.klegibcollege.org)

Date: 19/03/2018

## **DEPARTMENT OF ZOOLOGY**

### **CERTIFICATE COURSE IN VERMITECH**

#### **NOTICE**

The department is going to conduct class test in certificate course for B.Sc.VI SEM students in Hall No. 10. on 19/03/2018. Students are informed to attend the same.

**HOD**

Head

Department of Zoology

K.L.E's G. I. B. College, Nipani

**PRINCIPAL**

G.I. Bagewadi Arts, Science & Commerce College, NIPANI.





K.L.E. Society's

**G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237**

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

## DEPARTMENT OF ZOOLOGY

Application form for admission to Certificate Course in Dairy Farming for the year 2017-18.



To,  
HOD of Zoology  
K.L.E. Society's G.I. Bagewadi College, Nipani

### PARTICULARS OF APPLICANT

1. Full name of the applicant:  
Dhanashri Parasharam Chalake
2. Class: B.Sc IV<sup>th</sup> sem
3. Category: Hindu Maratha -III B
4. Gender: Female
5. Address for correspondence  
Beereswar Nagar, Rankeshwar  
Tal - Hakkeri Dist - Belgaum
- Contact No.: 9242312287
6. E-mail ID: \_\_\_\_\_



D Chalake  
Signature of Applicant



K.L.E. Society's

**G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237**

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

## DEPARTMENT OF ZOOLOGY

Application form for admission to Certificate Course in VERMITECH for the year 2018-19.



To,  
HOD of Zoology  
K.L.E. Society's G.I. Bagewadi College, Nipani

### PARTICULARS OF APPLICANT

1. Full name of the applicant:

POOJA . PRASHANT . GHORPADE

2. Class: B.S.C VI

3. Category: III B

4. Gender: FEMALE

5. Address for correspondence

A/P Khadkewada, Taluka - Kagal, District - Kolhapur

Contact No.: 9049163609

6. E-mail ID: \_\_\_\_\_



Signature of Applicant

Website: [www.klegibcollege.com](http://www.klegibcollege.com)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph: 08338-220116, 220416



**K.L. E. Society's**  
**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,**  
**Dist. Belgaum**

**DEPARTMENT OF ZOOLOGY**

**LIST OF STUDENTS IN CERTIFICATE COURSE 2017-18**

SL. No.	NAME	CLASS
1	Achal Magadum	B. Sc. III Year
2	Akshay Havaladar	
3	Ankita Magadum	
4	Aarti Bhalebhaladar	
5	Archana Kumbar	
6	Ashwini Sabale	
7	Harsha Shirkoli	
8	Varsha Jabade	
9	Kalyani Shitoli	
10	Karishma Halkarni	
11	Kaveri Kumbar	
12	Laxmi shetti	
13	Mahadevi Bhanase	
14	Maruti Gurav	
15	Mayuri Jasud	
16	Nilam Patil	
17	Pallavi Kumbar	
18	Pallavi Nagave	
19	Shivani Patil	
20	Pragati Patil	
21	Reshma Chougale	
22	Rushikesh Majage	
23	Sanobar Mulla	
24	Shraddha Sangane	
25	Shruti Chonchannavar	
26	Sonali Naik	
27	Tejashri Mangavate	
28	Trupti Kambale	
29	Uzma Mulla	
30	Varsha Kenawade	
31	Vijaykumar Karoshi	
32	Yashodha Hunakumpi	
33	Megharani Patil	
34	Aishwarya Modi	
35	Chaitanya Chavan	

**Head**  
**Department of Zoology**  
**G. I. B. College, Nipani**



**PRINCIPAL**  
**G.I. Bagewadi Arts, Science &**  
**Commerce College, NIPANI.**



**SYLLABUS:**

**Theory:**

1 hour X 20 = 20 hours

UNIT-I: 2 Hrs

General properties of the soil - structure of the soil - sand, clay, salt, types of soils -soil organisms.

UNIT-II: 5 Hrs

Soil biota - Earthworms -Ecological classification of earth worms as Epigeics - Introduction to earthworm biology - role of earthworms in soil - classification of earthworms based on ecological strategies - Burrowing activity of earthworms - Drilospheres -Microorganisms and their relationship with earthworms.

UNIT-III: 5 Hrs

Composting - anaerobic composting, aerobic composting, types of composting, vermicompost - earthworm species used in vermicompost production-endemic species, exotic species.

UNIT-IV: 8 Hrs

Vermicompost -setting up vermicompost unit - vermiculture - vermiwash - role of vermicompost in organic farming - its quality and advantages over chemical inputs. Earthworms in bioreclamation of soil. Problems in vermiculture units - remedial suggestions. Vermicomposting as a tool for solid waste management -a small scale industry and its economics.

**Practical:**

10 X 2 Hrs = 20 Hrs

- |   |   |
|---|---|
| 1. General properties of the soil - structure of the soil - sand, clay, salt, types of soils -soil organisms. | 1 |
| 2. Introduction to earthworm, types of Earthworm.   | 1 |
| 3. Composting: Types  | 1 |
| 4. Vermicomposting. Set up of pit, specifications, and preparations   | 2 |
| 5. Vermiculture: selection of species, Introduction of earthworm and rearing techniques.                      | 2 |
| 6. Harvesting the Product.  | 1 |
| 7. Visit to demo Plant  | 1 |
| 8. Field Visit  | 1 |



Total 10 Practicals

PRINCIPAL

G.I. Bagewadi Arts, Science &

H.O.  
Department of Zoology  
G.I. Bagewadi, NIPANI

Theory - 20 hrs  
 Pra - 20 hrs  
 Total 40 hrs



**K.L.E. Society's  
G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,  
Dist. Belgaum**

**Date: 05/01/2018**

## **DEPARTMENT OF ZOOLOGY**

**2017-18**

**The following staff members are going to conduct classes for certificate course in Vermitech.**

- 1. Dr. Smt.V.R.Naik**
- 2. Miss. S.M.Hegade**

**HOD**

**Head**

**Department of Zoology  
K.L.E's G. I. B. College, Nipani**

**Department of Zoology,  
K.L.E's G.I.B. College, Nipani**



K.L.E Society's

G. I. BAGEWADI ARTS, SCIENCE, COMMERCE & PG COLLEGE, NIPANI  
 ZOOLOGY DEPARTMENT

REGULAR TIME - TABLE (Vermiculture)  
 YEAR: 2017-18  
 Zoology department

Days	1	2	3	4	5	6	7	8	9	
Time	9.15-10.15	10.15-10.30	10.30-11.30	11.30-12.30	12.30-1.30	1.30-2.00	2.00-3.00	3.00-4.00	4.00-5.00	5.00-6.00
MONDAY										
TUESDAY										
WEDNESDAY										
THURSDAY										
FRIDAY										
Saturday										

LUNCH BREAK

Theory  
SMI

S

practical  
VRWTSMT  
Theory  
VRW



*[Faint handwritten notes]*

*[Handwritten signature]*

HEAD  
 Department of Zoology  
 G. I. Bagewadi College, Nipani

K.L.E. Society's  
G.I.BAGEWADI ARTS, SCIENCE & COMMERCE DEGREE & P.G.  
COLLEGE NIPANI-591237

Department of Zoology

Vermiculture certificate course Marks

B.Sc VI sem

Date:

Roll .No	Marks	Roll .No	marks
81	10	106	19
82	10	107	14
83	12	108	14
84	12	109	14
85	11	110	13
86	14	111	15
87	10	112	10
88	12	113	13
89	14	114	10
90	13	115	10
91	17		
92	15		
93	16		
94	15		
95	16		
96	18		
97	16		
98	18		
99	14		
100	15		
101	20		
102	13		
103	15		
104	15		
105	10		

  
Head

Department of Zoology  
K.L.E's G. I. B. College, Nipani





PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.

**K.L.E SOCIETY'S  
G. I. BAGEWADI COLLEGE, NIPANI.**

**B.Sc.VI SEM**

**Subject: Vermitech**

**Max.marks: 20**

**Date: 02.04.2018**

**Internal Test**

**Answer the following questions**

**2x10=20**

- 1. Briefly explain vermipit.**
- 2. Write a note on vermicompost.**





# G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI - 591 237.



(Re-accredited at 'A' Level by NAAC with CGPA 3.35)

College with Potential for Excellence

## EXAMINATION

Class : Bsc VI Sem

Subject : Zoology

Roll No. : 120

Date : 21/3/19

Marks Scored : 

Test :



Signature of Valuer

Signature of the Invigilator with date

1) Explain briefly pot culture.

pot culture it is also known as small scale  
vermiculture.

- \* This is a simple indoor method of vermiculture practised on a small scale
- \* It can also be practised in colleges under laboratory conditions as a part of the project work.
- It involves the following stages.

→

→ Collection of earthworms:

- \* The collection of earthworms involves the selection of the right type of earthworm for rearing.
- \* They have been classified into 3 types, viz -  
epigeus, endogea, Aneides.

→ Preparation of compost bedding:-

- \* The compost bedding is the material in which the earthworms are grown.

\* It is prepared in the following manner-

i) A large earthen flowerpot is taken & hole at the bottom is plugged with a piece of gunny bag. The base of the pot is also covered by a moist gunny bag.

ii) Over this gunny bag the bedding material is spread. Like coconut, rice husk, saw dust could be used as bedding material.

iii) Once the bedding material is prepared in feeding material has to be collected. feeding material

could be organic waste like leaves, vegetable waste, waste from the kitchen etc.

iv) Finally cut organic waste is next mixed with cow dung & common garden soil in the ratio 3:2:1 of about 30-40%.

v) The favourable temp of the worm bed is b/w 25-36°C. They are capable of withstanding temp. fluctuations. The pH has to be around 6-7.4.

⇒ Preprocessing for primary degradation.

\* 1<sup>st</sup> degradation is the process of decomposition of compost bedding by micro-organisms.

⊕ As the action of micro-organisms continue, the mixture has to be up turned in order to prevent foul smell due to Anaerobic respiration.

⇒ Enoculation or Introduction of worms for their Action :-

\* enoculation is the process of introducing the worms into the bedding material.

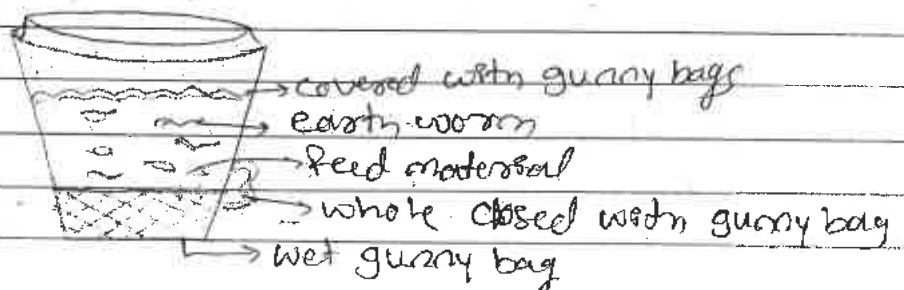
\* Here about 15-20 mature epigic earthworms are introduced into the preprocessed material.

\* The Vermicompost entire process of Vermicomposting may require about 2-3 months.

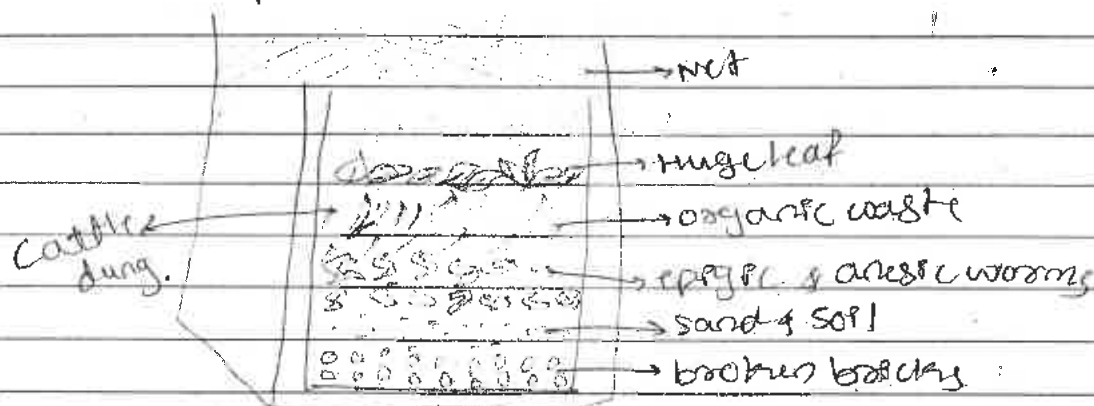
⇒ Harvesting :-

\* Harvesting is the process of collection of vermicompost.

⊕ When the Vermicompost is ready for use, the top layer appears brownish in colour with granular appearance watering should be then stopped. This compels the worms to move into the lower end of the vermibed.



## 2) Explain pit culture :->



### \* Collection of earthworms :->

- The earthworms are generally spotted in garden soil in Shady Spots.
- If an handful of fresh cowdung is buried in the selected area, It acts as a bait to attract worms.
- The entire selected area has to be covered with an old cloth or jute bag.
- It has to be kept moist by watering regularly.

### \* Preparation of compost bedding.

- The site of compost bed preferably, should be shady area. The pit should not be more than 3 feet high & 3 feet in width, while length could be of any extent.
- First, a layer of broken bricks has to be placed as a basal layer. over this, a layer of sand to a thickness of atleast 6-7.5 cm has to be placed.

### \* Inoculation of the worms :->

- Inoculation is the process of introducing the worms into the compost bedding once the bedding is prepared about 80-100 locally collected epigeic Anecic worms could be inoculated.
- After inoculation, cowdung is scattered over the soil, the entire unit has to be kept moist.

## # Harvesting :-

Harvesting is the process of collecting the vermicompost when the vermicompost is ready for use, the top layer appears brownish in colour with granular appearance.

The compost could then be made to pass through a galvanized meshing sieve of 3mm. The worms obtained during sieving could be transferred back to the culture.

The collected vermicompost can be stocked in a shady area & marketable quantity can be packed in plastic bags.

8

K. L. E. Society's

**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI - 591237**

(Reaccredited by NAAC at 'A' Level with CGPA 3.35) )



# Certificate

**DEPARTMENT OF ZOOLOGY**

This is to certify that Mr./ Miss. Vaishnavi S Ajarekar

of BSc IV<sup>th</sup>

Semester has successfully completed a certificate course in

**Vermiculture** during the year 2017-18

**Head  
Department of Zoology.**



**PRINCIPAL**







K.L.E. Society's  
G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237  
Re-accredited at 'A' level by NAAC with CGPA 3.35

Affiliated to Rani Channamma University, Belagavi, Karnataka, India

Website: WWW.Klegibnpn.edu.in E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph: 08338-220116

### REPORT ON : CERTIFICATE COURSE ON VERMITECH

Name of the Department	Zoology
Name of the Event Organized	Certificate course
Title of the Event	Vermiculture
Date of the Event Organized	Jan-March(2017-18)
Name of the Convener	Dr.Smt.V.R.Naik
Participants	32
No. of Participants	Total 32 Teachers 02 Students 30
Name of the Expert with Designation	Miss.S.M.Hegade.Assistant prof
Contact Number & Address of the Expert	Mob.No-9008396800
Objectives of the Event	Composting organic waste into valuable organic fertilizer by action of earthworms.
Outcome of the Event	Effective ecofriendly cheap & easy method of recycling by bio degradable waste using selected species of earthworms.
Photo Gallery	
	
Species of Earthworms.	Vermicompost unit.

*for [Signature]*

HOD  
HOD

Department of Zoology  
G.I. Bagewadi NIPANI

*[Signature]*

IOAC Co-ordinator  
IOAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.

*[Signature]*

PRINCIPAL  
PRINCIPAL

G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



**K.L.E Society's**

**G.I. Bagewadi Arts, Science & Commerce Degree College, NIPANI**

**Department of Mathematics**

**NOTICE**

**Certificate Course 2017-18**

**"Reasoning and Quantitative Aptitude"**

Department of Mathematics is going to start Certificate Course in **"Reasoning and Quantitative Aptitude"** for the year 2017-18 from 23-12-2017.

'Reasoning and Aptitude' is very essential for all Competitive exams, Bank Exams, Campus Interviews, PG CET, etc. So interested students of B.Sc., B.Com. B.A., M.Sc. and M.Com. take the benefit of it and are informed to enroll their names in the department of Mathematics on or before 13-12-2017 (soon after your sem. Examination). Time table and syllabus will be notified later.



Department of Mathematics  
K.L.E's G. I. B. College, Nipani.



IQAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.



PRINCIPAL  
*Principal.*

G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI



**K. L. E. Society's**  
**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
**DEPARTMENT OF MATHEMATICS**  
**Certificate Course in 'Reasoning and Quantitative Aptitude'**  
**Students Enrolment List 2017-18**

Roll No.	Name of the students	Class	Category	Fees in Rs.
1	Shubhangi A. Kesarkar	B. Sc. I	III B	500
2	Sonali M. Bharade	B. Sc. I	III B	500
3	Laxmi P. Sansuddi	B. Sc. I	III B	500
4	Laxman S. Ingale	B. Sc. I	III B	500
5	Kavya J. Mane	B. Sc. I	III B	500
6	Aruna P. Hegde	B. Sc. I	III B	500
7	Mansoor T. Momin	B. Sc. I	II B	500
8	Muskan A. Shekhaji	B. Sc. I	II B	500
9	Savita S. Pathade	B. Sc. I	III B	500
10	Laxmi A. Khot	B. Sc. I	III B	500
11	Sarika R. Swami	B. Sc. I	III B	500
12	Nikita S. Nadage	B. Sc. I	III B	500
13	Dilshard M. Mulle	B. Sc. I	II B	500
14	Tanuja A Adiseri	B. Sc. I	II A	500
15	Rohan R. Devakate	B. Sc. II	III B	500
16	Mayuri A. Sadalape	B. Sc. I	III B	500
17	Umme-Salma A. Mulla	B. Sc. I	GM	500
18	Sushama J. Patil	B. Sc. I	III B	500
19	Pooja S. Chougule	B. Sc. I	III B	500
20	Priyanka D. Kesarkar	B. Sc. I	III B	500
21	A. P. Rayagonnabar	B. Sc. I	III B	500
22	Shrishail A. Nerale	B. Sc. I	III B	500
23	Pradnya M. Bhivashe	B. Sc. I	III B	500
24	Deepali R. Patil	B. Sc. I	III B	500
25	Aishwarya S. Padre	B. Sc. I	III B	500
26	Asmita S. Kamble	B. Sc. I	SC	500
27	Komal Mali	B. Sc. I	III B	500
28	Mrunali Salunke	B. Sc. I	III B	500
29	Vidya N. Jangunde	B. Sc. III	III B	500
30	Nutan B. Salunke	B. Sc. I	III B	500
31	Deepali M. Chougule	B. Sc. I	III B	500
32	Samiksha B. Gebise	B. Sc. I	III B	500
33	Nikhita Havale	B. Sc. I	III B	500
34	Sonali G. Patil	B. Sc. I	III B	-
35	Akasha M. Shindhe	B. Sc. I	III B	-
36	Megha M. Shumbhad	B. Sc. I	III B	-
37	Priyanka P. Palkar	B. Sc. I	III B	-
38	Pankaj P. Hawaldar	B. Sc. II	III B	-
39	Varsha B. Kenawade	B. Sc. III	III B	-
40	Gurunath C. Arakar	B. Sc. II	III B	-
41	Shraddha S. Sangane	B. Sc. III	III B	-
42	Mayuri M. Jasud	B. Sc. III	III B	-
43	Mallappa B. Done	B. Sc. I	III B	-
<b>Total amount collected</b>				<b>Rs 16,500</b>

  
**Head**

**Department of Mathematics**  
**K.L.E's G. I. B. College, Nipani,**



**K. L. E Society's**  
**G.I. Bagewadi Arts, Science , Commerce & PG College, Nipani**  
**DEPARTMENT OF MATHEMATICS**  
**Certificate Course in 'Reasoning & Quantitative Aptitude'**  
**2017-18**

**Objectives:**

The Mathematics certificate course is a programme designed to enhance the knowledge of mathematics and strengthen applications to graduate school and the job market. Having a strong background in Mathematics is viewed increasingly as an asset to students seeking entrance to graduate school in most sciences. It is also highly desirable for many employers.

This certificate course does not require any high level mathematics or mastery of proof writing , even a non mathematician also can do it. All under graduates and special students are eligible for a Mathematics certificate course.

**Course Details:**

This is a short term course that requires three months of study, which provides strong quantitative skills to students who are willing to appear for Competitive Exam, Entrance tests for MBA, MCA, TGT, PGT, NET, SET etc. How to solve a mathematical questions is not significant in such exams, most important aspect is to how to solve in a fraction of minute, using short cut methods. This has been taken care in this course. The applied nature of the program implies the fact that how to solve objective type questions by short cut methods.

**Particulars of course:**

**Duration:** 3 months, January 2018 to March 2018.

**Schedule :** 4 Lecture hours weekly, total of 50 class hours.

**Target Audience:** Mainly undergraduate students of all faculty, also postgraduate students and professionals.

**Fees:** Rs.500

**Number of students enrolled:** 44

**Evaluation:** After two months of starting of course one test for 20 marks will be conducting and final Exam will be conducted at the end of course (objective type question) , and grade will be given according to their performance in final exam.



### No. of hours unit wise:

S. No.	Units	No. of hrs.	Weight-age of Marks
01	Reasoning	05	05
02	Calendar	05	03
03	Problems on Ages	05	02
04	Average and Percentage	05	02
05	Profit and Loss	05	02
06	Ratio and proportion	05	02
07	Simple and compound interest	05	02
08	Time and work, time and distance	05	03
09	Problems on trains	05	02
10	Venn diagram based questions	02	01
11	LCM and HCF	03	01

### Unit wise syllabus of the course:

#### **Unit 1: Reasoning (Series completion)**

Number series and alphabet series 5 hrs.

#### **Unit 2: Calendar**

Definitions of ordinary year, leap year, odd day, counting of odd days in a month and a year. Method of calculation of odd days for particular date and finding the day for given date and examples. 5 hrs.

#### **Unit 3: Problems on ages**

Finding the ages of father, son or daughter under given conditions. 5 hrs.

#### **Unit 4: Average and Percentage**

Formulae, concept of average and examples. Concept of percentage, Results on population, results on depreciation. 5 hrs.

#### **Unit 5: Profit and Loss**

Cost price (CP), selling price (SP), profit or gain, loss, formulae and examples. 5 hrs

#### **Unit 6: Ratio and proportion**

Ratio, proportion, comparison of ratios, compounded ratios, duplicate ratios, sub-duplicate, sub-triplicate ratio, variation. 5 hrs.

#### **Unit 7: Simple and compound interest**

Principle, interest, simple interest (SI), examples. Compound interest- concept of compound interest, calculation of amount for different periods. 5hrs



  
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### Unit 8: Time and work, Time and distance, pipes and cisterns

Formulae and examples, time and distance. Pipes and cisterns- Concept of Inlet, outlet. 5 hrs.

### Unit 9: Problems on Trains.

Formulae for calculating speed, time, distance, relative velocity for moving in same and opposite direction and examples. 5 hrs.

### Unit 10: Venn diagram based questions & LCM and HCF

5 hrs.

### Reference Books:

- 1) Quantitative Aptitude for competitive examinations- R. S. Aggarwal
- 2) Verbal and nonverbal Reasoning - R. S. Aggarwal
- 3) Objective Arithmetic - R. S. Aggarwal

### Distribution of Syllabus:

S.No.	Name of the teacher	Units allotted	No. of hours
1.	Miss Girija Karaguppi	3 & 10	10
2.	Miss Vinaya Khot	2 & 5	10
3.	Mr. Sammed Chougale	6 & 9	10
4.	Mr. Jinendra Magadum	4 & 7	10
5.	Miss Sonali Patil	1 & 8	10
6.	Dr. M. M. Shankrikopp	10	05

### TIME TABLE

DAY	TIME
Wednesday	5.00 pm to 6.00 pm
Saturday	5.00 pm to 6.00 pm
Sunday	10.00 am to 12.00 noon
Weekly 4 hrs	

  
HOD  
Head

Department of Mathematics  
K.L.E's G. I. B. College, Nipani.

  
IQAC Co-ordinator

K.L.E's G. I. B. College, Nipani.

  
Principal

G.I. Bagewadi Arts, Science  
Commerce College, Nipani



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**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
**DEPARTMENT OF MATHEMATICS**  
**Certificate Course in 'Reasoning and Quantitative Aptitude'**  
**Final Exam Marks List 2017-18**

Roll No.	Name of the students	Class	Obtained Marks Out of 25
1	Shubhangi A. Kesarkar	B. Sc. I	12
2	Sonali M. Bharade	B. Sc. I	17
3	Laxmi P. Sansuddi	B. Sc. I	04
4	Laxman S. Ingale	B. Sc. I	10
5	Kavya J. Mane	B. Sc. I	06
6	Aruna P. Hegde	B. Sc. I	07
7	Mansoor T. Momin	B. Sc. I	10
8	Muskan A. Shekhaji	B. Sc. I	14
9	Savita S. Pathade	B. Sc. I	11
10	Laxmi A. Khot	B. Sc. I	AB
11	Sarika R. Swami	B. Sc. I	AB
12	Nikita S. Nadage	B. Sc. I	06
13	Dilshard M. Mulla	B. Sc. I	07
14	Tanuja A Adiseri	B. Sc. I	15
15	Rohan R. Devakate	B. Sc. II	11
16	Mayuri A. Sadalage	B. Sc. I	12
17	Umme-Salma A. Mulla	B. Sc. I	12
18	Sushama J. Patil	B. Sc. I	06
19	Pooja S. Chougule	B. Sc. I	09
20	Priyanka D. Kesarkar	B. Sc. I	11
21	A. P. Rayagonnabar	B. Sc. I	07
22	Shrishail A. Nerale	B. Sc. I	11
23	Pradnya M. Bhivashe	B. Sc. I	12
24	Deepali R. Patil	B. Sc. I	07
25	Aishwarya S. Padre	B. Sc. I	10
26	Asmita S. Kamble	B. Sc. I	04
27	Komal Mali	B. Sc. I	08
28	Mrunali Salunke	B. Sc. I	08
29	Vidya N. Jangunde	B. Sc. III	06
30	Nutan B. Salunke	B. Sc. I	09
31	Deepali M. Chougule	B. Sc. I	05
32	Samiksha B. Gebise	B. Sc. I	AB
33	Nikhita Havale	B. Sc. I	AB
34	Sonali G. Patil	B. Sc. I	AB
35	Akasha M. Shindhe	B. Sc. I	AB
36	Megha M. Shumbhad	B. Sc. I	AB
37	Priyanka P. Palkar	B. Sc. I	AB
38	Pankaj P. Hawaldar	B. Sc. II	15
39	Varsha B. Kenawade	B. Sc. III	AB
40	Gurunath C. Arakar	B. Sc. II	AB
41	Shraddha S. Sangane	B. Sc. III	AB
42	Mayuri M. Jasud	B. Sc. III	AB
43	Mallappa B. Done	B. Sc. I	AB



*M.B.*  
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Name: \_\_\_\_\_  
Class: \_\_\_\_\_  
Roll No. \_\_\_\_\_

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G. I. Bagewadi Arts, Science & Commerce College, Nipani

Examination on Certificate Course 2017-18

Time: 1 hr.

Date: 06-04-2018

Marks: 25

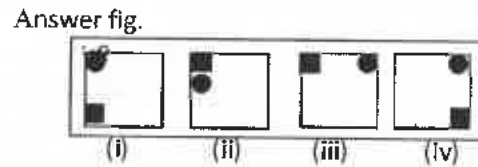
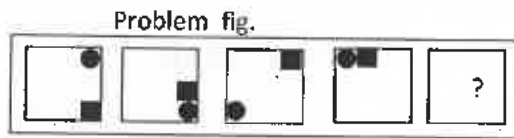
*Answer all the questions*

Note: Note: Separate answer sheet is provided.

1. What day of the week was for 28<sup>th</sup> Feb. 1928 ?  
(a) Monday      (b) Tuesday      (c) Wednesday      (d) Saturday
2. The sum of the ages of 4 children born at the intervals of 4 years each is 48 years. What is the age of the youngest child?  
(a) 4 years      (b) 10 years      (c) 12 years      (d) 6 years
3. How many sec will a 500 m long train take to cross a man walking with a speed of 3km/hr in the direction of the moving train if the speed of the train is 63 km/hr.?  
(a) 25      (b) 30      (c) 40      (d) 45
4. A student has to obtain 33% of the total marks to pass. He got 125 marks and failed by 40 marks. The maximum marks are  
(a) 500      (b) 300      (c) 800      (d) 1000
5. In an examination, 65% students passed in civics and 60% in History, 40% passed in both of these subjects. If 90 students failed in History and Civics both, then what is the total number of students ?  
(a) 800      (b) 500      (c) 600      (d) 200
6. In a certain code HOUSE is written as INVRF. How is CROWD written in that code?  
(a) DQPVE      (b) DQPVK      (c) DQVPE      (d) DQEPV
7. A man complete a journey in 10hrs. He travels first half of the journey at the rate of 21km/hr. and second half at the rate of 24km/hr. Total journey in km.is  
(a) 220km      (b) 224km      (c) 230km.      (d) 234km.
8. The population of a town increased from 1,75,000 to 2,62,500 in a decade. Then the average % increased of population per year is  
(a) 4.37%      (b) 6%      (c) 5%      (d) 8.75%
9. What percent of 6.5 liters is 130 ml?  
(a) 3%      (b) 1%      (c) 2%      (d) 0.5%
10. A 270 m long train running at the speed of 120 kmph crosses another train running in opposite direction at the speed of 80 kmph in 9 seconds. What is the length of another train?  
(a) 230m      (b) 250m      (c) 320m      (d) 240 m
11. Find the number in the series 2, 7, 27, 107, ?  
(a) 227      (b) 327      (c) 427      (d) 527
12. In how much time would the simple interest on a certain sum be 0.125 times the principal at 10 % per annum?  
(a)  $1\frac{1}{4}$  years      (b)  $1\frac{3}{4}$  years      (c)  $2\frac{1}{4}$  years      (d)  $2\frac{3}{4}$  years
13. A man saves Rs. 200 at the end of each year and lends the money at 5% compound interest . How much will it become at the end of 3 years?  
(a) 660      (b) 661      (c) 662      (d) 664

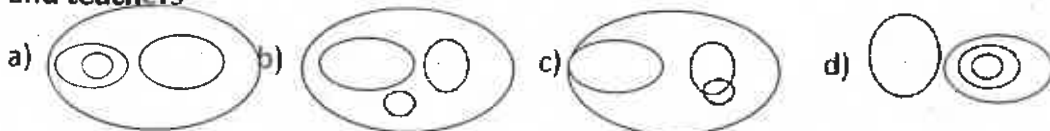


14. One year ago, Pramila was 4 times as old as her daughter Sakshi. 6 years hence, Pramila's age will exceed her daughter's age by 9 years. The ratio of the present ages of Pramila and her daughter is, a) 9 : 2    b) 11 : 3    c) 12 : 5    d) 13 : 4
15. Find the correct answer fig. for the following problem



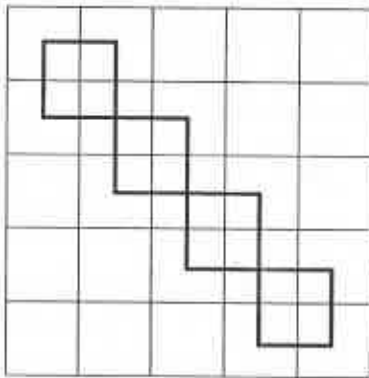
- a) (i)    b) (ii)    c) (iii)    d) (iv)

16. Calendar of Year 2020 will repeat again on  
a) 2026    b) 2024    c) 2025    d) 2028
17. A and B together can complete a piece of work in 4 days. If A alone can complete the same work in 12 days, in how many days can B alone complete that work?  
a) 6    b) 8    c) 5    d) 4
18. A vendor bought 6 toffees for a rupee. How many for a rupee must he sell to gain 20%?  
a) 3    b) 4    c) 5    d) 6
19. 12 buckets of water fill a tank when the capacity of each tank is 13.5 litres. How many buckets will be needed to fill the same tank, if the capacity of each bucket is 9 litres?    a) 10    b) 12    c) 16    d) 18
20. Which of the following is correct w.r.t. "members of GIB, Principal, students and teachers"

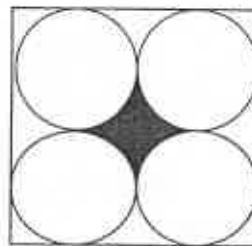


For questions 21 to 25 write answer in the answer sheet (not multiple choice)

21. Find number of squares in the following fig.



22. In the figure, if radius of each circle is 1 mts. Then what is area of shaded region?



23. In a code language the word 'CHENAI' coded as 49615210 then what is the code for the word 'SANGLI'?
24. The least number when divided by 5,6,7, and 8 leaves a remainder 3 but when divided by 9 leaves zero remainder, so what is the number?
25. A man has Rs 480 in the denominations of one rupee notes, five rupee notes & ten rupee notes. The number of notes of each denominations equal. What is the total number of notes he has?

\*\*\*\*\*



Name: Shubhangi A. Kekar  
 Class: B.Sc II Sem  
 Roll No. 01

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 Examination on Certificate Course 2017-18  
 Date: 06-04-2018

12  
25

Answer Sheet (Put '✓' in circle)



Q. No.	Answers				Q. No.	Answers			
	(a)	(b)	(c)	(d)		(a)	(b)	(c)	(d)
1. ✓	○	●	○	○	11. ✓	○	●	○	○
2. ✓	○	○	○	●	12. ✓	●	○	○	○
3. ✓	○	○	●	○	13. ✓	○	●	○	○
4. ✓	○	○	●	○	14. ✓	○	●	○	○
5. ✓	●	○	○	○	15. ✓	○	○	●	○
6. ✓	●	○	○	○	16. ✓	○	●	○	○
7. ✓	○	○	○	○	17. ✓	●	○	○	○
8. ✓	○	○	●	○	18. ✓	○	○	●	○
9. ✓	○	○	○	●	19. ✓	●	○	○	○
10. ✓	●	○	○	○	20. ✓	○	●	○	○
21.	85 ✓				23.	2021581310 ✓			
22.	1 ✓				24.	1683 ✓			
					25.				

Suggestion: This exam is useful to we people.





Name: Savita S. Patbade  
 Class: B.Sc 1<sup>st</sup> Sem  
 Roll No. 10

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**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
**Examination on Certificate Course 2017-18**

Date: 06-04-2018

Answer Sheet (Put '✓' in circle)



Q. No.	Answers				Q. No.	Answers			
	(a)	(b)	(c)	(d)		(a)	(b)	(c)	(d)
1. ✓	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	11. ✗	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. ✗	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	12. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. ✓	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	13. ✗	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4. ✗	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	14. ✓	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
5. ✗	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	15. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
6. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	16. ✗	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. ✓	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	17. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. ✗	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	18. ✗	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
9. ✓	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	19. ✗	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
10. ✗	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	20. ✓	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21.					23.	2021581310 ✓			
22.					24.	246 5043 ✗			
					25.				

Suggestion: \_\_\_\_\_

\_\_\_\_\_



K.L.E. Society's

# G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI

Accredited at 'A' Level by NAAC with CGPA 3.35

## Department of Mathematics

# CERTIFICATE

COURSE CODE : BScMC 2017

This is to certify that ~~Mr./Miss/~~

Shubhangi Kherkar

of B.Sc II

Semester has successfully completed a certificate course in

**Reasoning and Quantitative Aptitude** during the year 2017-18



Head

Department of Mathematics



PRINCIPAL





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**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

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(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: [www.klegibnnpn.org.in](http://www.klegibnnpn.org.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

## REPORT ON CERTIFICATE COURSE FOR THE YEAR 2017-18

Name of the Department	Mathematics	
Name of the Event Organized	Certificate Course	
Title of the Event	Reasoning and Quantitative Aptitude	
Date of introduction of Course & Duration	11-01-2018	48 hours
Name of the Convener	Miss. G.L.Karaguppi	
No of Students Enrolled	43	
Date of Final Exam Conducted	06-04-2018	
No of Students Appeared for Final Exam	30	
Name of the Expert with Designation	Faculty Members	
Objectives of the Event	<ul style="list-style-type: none"><li>❖ To improve analytical skills.</li><li>❖ Practice for competitive exams.</li></ul>	
Outcome of the Event	<ul style="list-style-type: none"><li>❖ It helps the students who are appearing for Navy, Army, Air force, SSC, FDA, SDA, KAS exams.</li><li>❖ Some students got selected for campus interviews, Army and Navy.</li></ul>	

### Photo Gallery



Supervision by Dr.(Smt)M.M.Shankrikopp



Supervision by PG student

  
IQAC Coordinator

**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
HOD

Department of Mathematics  
K.L.E's G. I. B. College, Nipani

  
Principal

**Principal**  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



IV 7

K.L.E. Society's

G. I. Bagewadi Arts, Science and Commerce  
College, Nipani

DEPARTMENT OF ECONOMICS

Certificate Course: 2017-2018



Admission Form

**Self Employment and Entrepreneurship Development  
Course**

1. Name: : Ankita S. Karadage  
2. Class : BA III<sup>rd</sup> year VI<sup>th</sup> Semester.  
3. Reg. NO : A1530207  
4. Date of Birth : 01-06-1998  
5. Gender : Female  
6. Category : III B  
7. Address (Residential) : A/P :- Galataga, Tal :- Chikodi  
with cell no / Phone no Dist :- Bidar  
9686619147

Date 3/4/2018

Signature



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G. I. Bagewadi Arts, Science and Commerce  
College, Nipani

DEPARTMENT OF ECONOMICS

Certificate Course: 2017-2018



Admission Form

**Self Employment and Entrepreneurship Development  
Course**

1. Name: : Rani Sunil Patil
2. Class : BA IV Sem
3. Reg. NO : A1630224
4. Date of Birth : 24/04/1999
5. Gender : Female
6. Category : III B, Jain Digambar
7. Address (Residential) ; A/p Kothali, Tq- Chikkodi  
with cell no / Phone no Det - Belagavi. 9535461138

Date 3/04/2018

*Rspatil*  
Signature





**KLE Society's**  
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**DEPARTMENT OF ECONOMICS**  
**Certificate Course: 2017-18**

**Self Employment and Entrepreneurship Development**  
**Students Enrollment List**

SL.NO	NAME	CLASS/SEM	SIGNATURE
1	Amruta M. Chilai	B.A.VI	(Ahilar)
2	Anand R. Rayagol	B.A.VI	A
3	Anikita S. Karadage	B.A.VI	(Ask)
4	Bharmurthya L. Gavade	B.A.VI	B
5	Birappa D. Gundannavar	B.A.VI	B
6	Getanjali A. Awade	B.A.VI	Getanjali
7	Jyoti S. Galatage	B.A.VI	Jyoti Galatage
8	Maruti M. Pujeri	B.A.VI	M
9	Namrata A. Kabadage	B.A.VI	N. A. Kabadage
10	Nosimabanu Mulla	B.A.VI	N. M. Mulla
11	Poornima C. Janawade	B.A.VI	P
12	Preeti N. Mukare	B.A.VI	Preeti
13	Priyanka R. Awade	B.A.VI	Priyanka
14	Rani M. Kore	B.A.VI	R. M. Kore
15	Rayappa H. Goundannavar	B.A.VI	R
16	Sanju G. Kode	B.A.VI	S
17	Seema S. Chougale	B.A.VI	Seemachougale
18	Shilpa R. Magadam	B.A.VI	Shilpa
19	Shivaraj B. Bhirade	B.A.VI	Shivaraj
20	Shruti B. Mangawate	B.A.VI	S
21	Sunil S. Bedar	B.A.VI	S
22	Suvarna C. Sankannavar	B.A.VI	S
23	Vidyulata C. Nule	B.A.VI	Vidyulata
24	Mayuri J. Bhairshetti	B.A.VI	M



25	Amar Nasalapure	B.A.IV	
26	Arati Kesti	B.A.IV	
27	Beerappa Zunake	B.A.IV	
28	Mahejabeen Parkute	B.A.IV	
29	Manjunath Banase	B.A.IV	
30	Prashant Shindigiri	B.A.IV	
31	Prathamesh Patil	B.A.IV	
32	Pratibha R. Patil	B.A.IV	
33	Pravina Chougule	B.A.IV	
34	Priyanka S. Patil	B.A.IV	
35	Rani S. Patil	B.A.IV	
36	Sangeeta S. Takawade	B.A.IV	
37	Santosh Singadi	B.A.IV	
38	Sarswati Jedar	B.A.IV	
39	Shruti Hukkeri	B.A.IV	
40	Uzama Goundi	B.A.IV	

  
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DEPARTMENT OF ECONOMICS

Certificate Course: 2017-18

## Self Employment and Entrepreneurship Development Course

### 1. RATIONALE OF COURSE

The emerging concept of self-reliance at individual and national level - has significant impact on current developing economy. Future social expectations towards engineering professionals would be certainly as job creators and not as purely job seekers. Upgraded technological and changing economic environment has opened up wide horizons of business areas-including in service sectors too. This course deals with the key concern areas of self-employment and entrepreneurship development. This course is directed to help students to develop and shape their creativity and to understand peripheral influencing aspects. The content will certainly help students to think in a direction to establish a new enterprise using fundamental knowledge.

### 2. LIST OF COMPETENCY.

The course content should be taught and implemented with the aim to develop different types of skills so that students are able to acquire following competencies:


1. Develop entrepreneurship and self-employment abilities to start any venture
2. Plan, use, monitor and control resources optimally and economically.

### 3. COURSE OUTCOMES /OBJECTIVES

The theory should be taught and practical should be carried out in such a manner that students are able to acquire different learning outcomes

1. Identify entrepreneurial quality.
2. Develop the ability to select potential areas for self-employment.
3. Select appropriate agency for technical and financial support.
4. Prepare project setup planning and project report.
5. Identify risk factors of project and their remedial measures



  
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# Syllabus

Units	Contents
Unit: I Introduction to self-employment and entrepreneurship development.	<p>1.1 Introduction of self-employment</p> <ol style="list-style-type: none"> <li>i. Concept and need in present Indian job market context.</li> <li>ii. Characteristics of self-employment areas</li> <li>iii. Broader ways to identify self employment areas</li> </ol> <p>1.2. Concept and importance of productivity, quality, cost consciousness and customers' satisfaction.</p> <p>1.3 Types of enterprise</p> <ol style="list-style-type: none"> <li>i. Micro</li> <li>ii. Small</li> <li>iii. medium enterprises</li> </ol>
Unit II Entrepreneurial Support Agencies	<p>2.1. Definition – Micro, small and medium industries.</p> <p>2.2. Registration process of an enterprise with Government agencies.</p> <p>2.3. Name, type and role of state and national level support agencies for:</p> <ol style="list-style-type: none"> <li>i. Sources of information.</li> <li>ii. Financial assistance.</li> <li>iii. Technical assistance.</li> <li>iv. Training.</li> </ol> <p>2.4 Current state &amp; national level promotional schemes for establishment of new enterprise</p>
Unit :III Project Proposal Planning	<p>Project report</p> <ol style="list-style-type: none"> <li>i. Meaning of project planning and report.</li> <li>ii. Feasibility study</li> <li>i. Details required for preparing project plan.</li> <li>ii. Project cost estimation.</li> <li>iii. Cost, Volume and Profit (CVP) analysis.</li> <li>iv. Preliminary project report (PPR) and detailed project report (DPR).</li> </ol>
Unit :IV Enterprises and Risk management.	<p>1. Decision making under risk</p> <p>2. Methods of risk management.</p> <p>3. Strength, Weakness, Opportunity and Threat (SWOT) analysis.</p>
Unit – V Case Study and Field Visit	<p>Case studies.: At least two for success and two for failure</p> <p>Analyze success and failures of entrepreneur &amp; self employer and integrate positive conclusions.</p> <ol style="list-style-type: none"> <li>i. Important features.</li> <li>ii. Reasons for success and failures.</li> <li>iii. Analyzing success and failure criteria.</li> <li>iv. Integration of case analysis conclusions in enterprise management for improvement.</li> </ol>
Field visit	Two days



  
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## LEARNING RESOURCES

### I. List of Books

1. Developing Entrepreneurship Pareek & Co. Learning systems, Delhi.
  2. Entrepreneurship & Venture - Management Clifford and Bombak, Joseph R. Momanso.
  3. Planning an Industrial unit J. N. Vyas.
  4. Small Industries management Karmakar M.B.
  5. Manual for the preparation of industrial - feasibility studies UNIDO
  6. New project opportunities GITCO
  7. Creativity Pradeep Khandwala
  8. Project profile for reserved - Development commissioner SSI, Items - VOI, I, II & III New Delhi.
- Small scale industry - Ministry of Industry Govt. of India. Policy & Perceptive, Dialogue with the Entrepreneur – GSFC, Import-Export Policy for SSI - Govt. of India.
- Entrepreneurship development and Management R.K.Singal S.K.Kataria and Sons. B) List of II.

### II. Learning Websites.

- i. <http://www.ediindia.org>
- ii. <http://niesbud.nic.in/docs/SelfEmploymentBook.pdf>
- iii. <http://smallb.in/> iv. <http://www.msme.gov.in/>
- v. <http://nimsme.org/>
- vi. <http://www.nsic.co.in/> Self Employment And Entrepreneurship



  
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## Course Contents

### Unit Design

UNIT	TITLE	TEACHING HOURS
I	Introduction to self-employment and entrepreneurship Development.	10
II	Entrepreneurial Support Agencies	8
III	Project Proposal Planning	8
IV	Enterprises and Risk management	4
V	Case Study and Field Visit. Theory	6
Total		36
Field visit : Two days		

• Course co-ordinator : Prof. M.S.Vanaki

• Resource Persons : DIC Belgaum

• Course Intake : 40 students

• Fee structure : RS: 50 per student

• Course period : 3 months

: Jan 2018 to March 2018

• Weekly : 3hours

• TEST : ONE TEST , TWO HOUR DURATION



  
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DEPARTMENT OF ECONOMICS

Certificate Course: U.G. Students

Self Employment and Entrepreneurship Development Course

Time Table

Day	Time
Thursday	4-5pm
Friday	4-5pm
Saturday	4-5pm

Staff Members

Dr. B.S.Kamble

Prof. M.S.Vanaki



  
PRINCIPAL  
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Commerce College, NIPANI.

Department of Economics  
Certificate Course Test -2017-18

Topic: Self Employment and Entrepreneurship Development

Date: 30-03-2018

Time: 3pm to 4.30pm

Marks: 50

Sl. No	Name of the Students	Class	Marks
1.	Maruta Chilai	B.A VI Sem	35
2.	Anand R. Rayagol	B.A VI Sem	22
3.	Anikita S. Karadage	B.A VI Sem	30
4.	Bharmurthya L. Gavade	B.A VI Sem	35
5.	Birappa D. Gundannavar	B.A VI Sem	28
6.	Getanjali A. Awade	B.A VI Sem	42
7.	Jyoti S. Galatage	B.A VI Sem	40
8.	Mruti M. Pujeri	B.A VI Sem	38
9.	Namrata A. Kabadage	B.A VI Sem	40
10.	Nosimabanu Mulla	B.A VI Sem	36
11.	Poornima C. Janawade	B.A VI Sem	38
12.	Preeti N. Mukare	B.A VI Sem	40
13.	Priyanka R. Awade	B.A VI Sem	38
14.	Rani M. Kore	B.A VI Sem	36
15.	Rayappa H. Goudannavar	B.A VI Sem	34
16.	Sanju G. Kode	B.A VI Sem	36
17.	Seema S. Chougale	B.A VI Sem	38
18.	Shilpa R. Magadum	B.A VI Sem	38
19.	Shivaraj B. Bhirade	B.A VI Sem	42
20.	Shruti B. Mangawate	B.A VI Sem	40
21.	Sunil S. Bedar	B.A VI Sem	32
22.	Suvarna C. Sankannavar	B.A VI Sem	42
23.	Vidyulata C. Nule	B.A VI Sem	40
24.	Mayuri J. Bhairshetti	B.A VI Sem	38
25.	Amar Nasalapure	B.A VI Sem	40
26.	Arati Kesti	B.A VI Sem	38
27.	Beerappa Zunake	B.A VI Sem	32
28.	Mahejabeen Parkute	B.A VI Sem	38
29.	Manjunath Banase	B.A VI Sem	40
30.	Prashant Shindigiri	B.A VI Sem	30
31.	Prathamesh Patil	B.A VI Sem	28
32.	Pratibha R. Patil	B.A VI Sem	36
33.	Pravina Chougale	B.A VI Sem	42
34.	Priyanka Patil	B.A VI Sem	38
35.	Rani S. Patil	B.A VI Sem	42
36.	Sangeeta S. Takawade	B.A VI Sem	35
37.	Santosh Singadi	B.A VI Sem	40
38.	Saraswati Jedar	B.A VI Sem	38
39.	Shruti Hukkeri	B.A VI Sem	36
40.	Uzama Goundi	B.A VI Sem	34



  
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KLE Society's

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NIPANI-591237**



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**Certificate**  
DEPARTMENT OF ECONOMICS

This is to certify that Mr/Ms. Aravinda M Chilai

of B. A IV Sem

Semester has successfully Completed a Certificate Course in

**SELF EMPLOYMENT AND ENTERPRENEURSHIP DEVELOPMENT** during the year 2017-2018.

Bande  
Head of the Department

Stee  
Course Co-ordinator



M. Bal  
Principal



**K.L.E.Society**  
**G.I.BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,**  
**Dist. Belgaum**

05/01/2018

## **DEPARTMENT OF ZOOLOGY**

### **NOTICE**

The department of zoology has decided to conduct a certificate course in

**DAIRY FARMING** for three months from January 2018 to March 2018 for B.Sc. III year CBZ students.

Duration of course is weekly 2 hrs theory class and 1 (2hrs) practical.

Students of B.Sc.III are hereby informed to enroll their names to HOD on or before 9th January 2018 with minimum registration fee of Rs. 200/-. The classes will start on 11th January 2018 according to the time table.

Principal  
G.I. Bagewadi Arts, Science &  
Com. College, Nipani



  
HOD  
Department of zoology  
Department of Zoology  
K.L.E's G. I. B. College, Nipani

  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





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**G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237**

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## DEPARTMENT OF ZOOLOGY

**Application form for admission to Certificate Course in Dairy Farming for the year 2017-18.**



To,  
HOD of Zoology  
K.L.E. Society's G.I. Bagewadi College, Nipani

### PARTICULARS OF APPLICANT

1. Full name of the applicant:

DHANASHREE RAMANNA HASURE

2. Class: B.Sc IV Sem

3. Category: III<sup>rd</sup> (B)

4. Gender: FEMALE

5. Address for correspondence

AT - HONNITHALI POST - KONANAKERI  
TQ - HUKKERE DIST - BELAGAVI  
DIN - 591225

Contact No.: 8746919364

6. E-mail ID: Dhanashreehasure 23 @ gmail. Com



Dhu  
Signature of Applicant

Website: [www.klegibcollege.com](http://www.klegibcollege.com)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

Ph: 08338-220116, 220416



K.L.E. Society's

**G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237**

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## DEPARTMENT OF ZOOLOGY

Application form for admission to Certificate Course in Dairy Farming for the year 2017-18.



To,  
HOD of Zoology  
K.L.E. Society's G.I. Bagewadi College, Nipani

### PARTICULARS OF APPLICANT

1. Full name of the applicant:

JAYASHREE BHARAMAPPA BALIKAI

2. Class: B.Sc IV sem

3. Category: III<sup>rd</sup> (B)

4. Gender: FEMALE

5. Address for correspondence

AT POST - HEBBAL, TG - HUKKARI  
DIST - BELAGAVI, PIN - 591221

Contact No.: 9902301211

6. E-mail ID: \_\_\_\_\_



*[Handwritten Signature]*

Signature of Applicant

Website: [www.klegibcollege.com](http://www.klegibcollege.com)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

Ph: 08338-220116, 220416



**K.L. E. Society's**

**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,  
Dist. Belgaum**

## **DEPARTMENT OF ZOOLOGY**

### **List of students for Dairy farming certificate course(2017-2018)**

SL. No.	NAME	
1	Abhishek chougule	BSc II Year
2	Amit Ammanagi	
3	Arati Gore	
4	Ashrafali Badiger	
5	Chaitali Hegade	
6	Chaitra Hasure	
7	Pranali Chavan	
8	Devyani Khot	
9	Dhanashri Hasure	
10	Dhanashri Chalake	
11	Dhanashri Patil	
12	Divya Chandrakude	
13	Gouravkumar Chougule	
14	Jayashri Balikai	
15	Komal Kadam	
16	Madhuri Shelke	
17	Maigouda Patil	
18	Manoj Kumbar	
19	Narendra Patil	
20	Nutan Kurane	
21	Nutan shettimani	
22	Omkar Magadum	
23	Pallavi Sangane	
24	Pooja Ghorapade	
25	Puja Karekar	
26	Rachana Patil	
27	Sangram Sanadi	
28	Santosh Bilage	
29	Seema Lagamannavar	
30	Sharad Banne	
31	Sheetal Magadum	
32	Shivtej chougale	
33	Shweta Sapagale	
34	Sneha Kamble	
35	Soumya Patil	
36	Sunita Patil	
37	Tejas Patil	
38	Vaishnavi Ajarekar	
39	Vaishnavi Ambale	



40	Yogesh Varute	
41	Pooja Reddy	
42	Digvijay Nigave	



**Head**

**Department of Zoology  
K.L.E's G. I. B. College, Nipani**



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G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.**





**K.L.E Society's**

**G.I .Bagewadi Arts, Science and Commerce College, Nipani-591237**

## **DEPARTMENT OF ZOOLOGY**

### **CERTIFICATE COURSE IN DAIRY FARMING**

#### **Introduction to the programme**

The domestic animals reared for use or profit are referred to as livestock. Livestock includes cattle, goats, sheep, pig, horses, camels. In India livestock population constitutes about 369 million which is 12% of the world's total livestock population. It contributes around 11% of the national income from agriculture.

Among the different livestock, cattle plays an important role in the economy of a developing agriculture country. Early records indicate that cattle were used for draft, milk, sacrifice, and in some cases for meat and sport. Some of these early uses have continued in modern times like bullfighting, sacrificing animals for religious purposes and considering cows as sacred.

#### **Objectives**

4. Development and strengthen Human Resources by infusing/ imparting knowledge  
And skill in dairy Farming through open and distance learning (ODL) mode.
5. Create awareness about the opportunities employment and livelihood in dairy farm sector.
6. Impart basic knowledge and technical proficiency in dairy farming, housing management and nutrition.

**Course Duration- 3 months**

3. Three months i.e January to March
4. Two theory classes/week

**Intake of students- 30 students**



  
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**Department of Zoology**  
**2016-2017**  
**Certificate course in Dairy farming**


**SYLLABUS**

01. Introduction of dairy farming -	01hr
02. Breeds of cattles (Indigenous and exotic breeds) -	06hr
03. Mentainance and diseases of cattles -	04hr
04. Utility of cattles-	04hr
05. Nutritive value of milk, processing of milk, marketing and distribution -	04hr
06. Dairy manure and feeding	02hr
07. Products and byproducts of milk	06hr

**Practicals**

01. Cattle Breeds -	01hr
02. Diseases of Cattles -	01hr
03. Dairy manure & feeding -	01hr
04. Visit to dairy farm	
05. Record book	



  
**Head**  
Department of Zoology  
K.L.E's G. I. B. College, Nipani.



**DEPARTMENT OF ZOOLOGY**

**Syllabus of Dairy farming(Certificate course)2017-2018**

- |  |        |
|--|--------|
| 1. Introduction of dairy farming   | 01 hrs |
| 2. Dairy breeds-Indigenous and exotic cow, buffaloes breeds.   | 05 hrs |
| 3. Breeding& Rearing-selection of breeds,rearing,care of new borns,milk production,milk composition,By products of milk. | 08 hrs |
| 4. Housing& management.  | 04 hrs |
| 5. Manure and feeding.   | 03 hrs |
| 6. Dairy farm training.  | 08 hrs |
| 7. Marketing & economic importance of milk.  | 05 hrs |
| 8. Diseases & their prevention.  | 06 hrs |

**Practical**

- |                        |        |
|------------------------|--------|
| 1. Dairy breeds        | 04 hrs |
| 2. Diseases of dairy   | 04 hrs |
| 3. Visit to dairy farm | 08 hrs |
| 4. Record book         |        |



  
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**Dist. Belgaum**

Date: 05/01/2017

## DEPARTMENT OF ZOOLOGY

2017-18

The following staff members are going to conduct classes for certificate course in Dairy farming.

1. Dr. Smt.V.R.Naik
2. Miss. S.M.Hegade



HQD

Department of Zoology  
K.L.E. Society's G.I. B. College, Nipani

K.L.E Society's

G. I. BAGEWADI ARTS, SCIENCE, COMMERCE & PG COLLEGE, NIPANI

ZOOLOGY DEPARTMENT

REGULAR TIME - TABLE  
YEAR: 2017-18  
(Dairy farming)  
Zoology department

Days	1	2	3	4	5	6	7	8	9
Time	9.15-10.15	10.15-10.30	10.30-11.30	11.30-12.30	12.30-1.30	1.30-2.00	2.00-3.00	3.00-4.00	4.00-5.00 5.00-6.00
MONDAY									
TUESDAY									
WEDNESDAY									
THURSDAY	8.30-9.30 NRW								Practical (VRN + SMH)
FRIDAY	8.30-9.30 SMH								
Saturday									

Dr. M. S. ...  
G. I. Bagewadi College, Nipani

HEAD  
Department of Zoology  
G. I. Bagewadi College, Nipani

K.L.E. Society's

G.I.BAGEWADI ARTS, SCIENCE & COMMERCE DEGREE & P.G.  
COLLEGE NIPANI-591237

Department of Zoology

Dairy farming certificate course Marks

2017-18

B.Sc IV sem

Date:

Roll .No	Marks	Roll .No	marks
96	08	121	15
97	15	122	19
98	14	123	09
99	17	124	09
100	14	125	18
101	14	126	17
102	17	127	08
103	15	128	08
104	08	129	17
105	14	130	09
106	14	131	14
107	14	132	12
108	18	133	08
109	17	134	12
110	16	135	09
111	19	136	08
112	14	137	12
113	16	23	16
114	08		
115	17		
116	16		
117	15		
118	08		
119	18		
120	17		

Head

Department of Zoology  
K.L.E. S. I. S. College, Nipani



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K.L.E SOCIETY'S  
G. I. BAGEWADI COLLEGE, NIPANI.

B.Sc.VI SEM

Subject: Dairy farming

Max.marks: 20

Date: 06.04.2018

Internal Test

**Answer the following questions**

**2x10=20**

- 1. Briefly explain nutritive value of milk.**
- 2. Write a note on Indigenous buffalo breed.**

  
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## EXAMINATION

Class : B.Sc. IV<sup>th</sup> Sem

Subject : Zoology

Roll No. : III

Date : 21/4/18

Marks Scored : Test : 

Signature of Valuer

Signature of the Invigilator with date

## ① Indigenous Buffalo breeds

Buffalo species originated in India. They are classified into two types namely the river and swamp types. In India most of them are river types and are namely milk breeds. Hence the contribution of buffaloes to the milk production is larger than that of the cow breeds. In fact India is considered the home tract of some of the best buffalo breeds and has dominated the world trade in export of improved breeds.

## ① Murrah -

The breed has originated from Punjab, Haryana region. They have docile temperament.

- ① They have a massive body frame with short broad back & short limbs. They possess short and curled horns.
- ② Their color is usually jet black with white streaks on face, feet & entire extremities.
- ③ The he-buffaloes are slow but powerful draft animals. The yield about 1,400 to 2,000 kg milk/lactation.

## ② Surati -

This breed has originated from Gujarat -

- ① They are medium sized with a black to brown characteristic straight back.
- ② Their color varies from black to brown.
- ③ The he-buffaloes are good for light work. The st-buffaloes have capacious udder and are good milk yielders. They yield about 900-1300 kg/lactation.

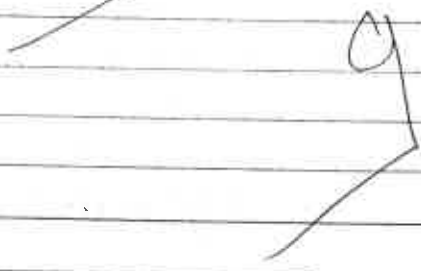
### ⑤ mehsana -

This breed originated from Gujarat it is a cross breed of surti & murrah.

- ① The body is longer than murrah.
- ② Their color usually varies between black & grey with white markings.
- ③ The he-buffaloes are slow but good for heavy work. The she buffaloes have capacious udder & good milk yield. They yield about 1.200 to 1.500 kg milk / lactation.

### ④ Nagpuri - The breed originated from central India. They are also called Elichpuri or Borari.

- ① They have elongated head with long curved horns.
- ② Their color is usually black with patches restricted to face, legs & tips of tail.
- ③ The he buffaloes are slow but good for heavy work. The she buffaloes have capacious udder & good milk yield. They yield about 700 to 1.200 kg lactation.





## ② Nutritive value of milk -

It is considered as a complete and ideal food as it contains the nutrient of a well balanced diet. Through the milk of various mammals it is used for food cow's milk is being used extensively throughout the world for feeding infants, throughout the world for feeding as a supplement to the diet of children & adults the milk of buffalo cow etc used as well as food various milk of various milk product such as curd butter ghee etc are used commonly in our food preparations. Low milk provides around 67 kilocalories of energy 100 ml.

### Composition of milk

Milk is a complex fluid, it contains about 85% water & has the presence of different component in varied forms.

> Proteins - It consists about 3.2% of the milk and exist in a colloid state. It principally consist of casein which contain about 80% of the total protein content other or each albumin about 18% lactose lobutin about 0.05 to 0.07% & rest of proteins are, reported by enzymes protease & peptone.

> Fat - cow milk carries practically 1/2 half the fat content of buffalo milk. It is about 4.1% of the milk. It can be separated by allowing milk to stand for some time after boiling the fat rises to surface as cream. In dairy fat is like vit A D & E cholesterol phospholipids & caseine.

> Carbohydrates - It consists about 4.5% of the milk & exist in a dissolved form. The main sugar present in milk is lactose. It favours the absorption of calcium magnesium & phosphorus the synthesis of some vit B complex in the small intestine. Hence lactose forms an important dietary component.

> vitamins - It consist of vit A, D & K thiamine  
riboflavin & nicotinic acid & traces of vitamin C







## EXAMINATION

Class : BSc IV sem Subject : Zoology

Roll No. : 19000000000000000000 Date : 21/4/18

Marks Scored : Test no. : 01

Signature of Valuer

Signature of the Invigilator with date

## 1) Nutritive value of milk -

It is considered as a complete and ideal food as it contains the nutrients of a well balanced diet. Though the milk of various mammals is used for food, cow's milk is being used extensively throughout the world for feeding infants and as a supplement to the diet of children and adults. The milk of buffalo, goat, cheese, paneer, khoya etc. are used commonly in our food preparations. Cow's milk provides around 67 kcal/calories of energy/100ml

## Composition of milk -

Milk is a complex fluid. It contains about 85% water and has the presence of different components in varied forms. Some are found in combined or bound state, some in emulsion form, some in dissolved state and a few in colloid state.

Proteins - It constitutes about 3.2% of the milk and exists in a colloid state. It principally consists of casein which constitutes about 80% of total protein content. The others are lactalbumin which constitutes about 18% lactoglobulin which is about 0.05 to 0.07% and rest of proteins are represented by enzymes proteases and peptones.

\* Fat - cow's milk contains practically half the fat content of buffalo milk. It is about 4.1% of the milk and is in the form of triglycerides in an emulsified form. It can be separated by allowing milk to stand for some time after boiling, the fat rises to the surface as cream. In dairies fat is separated by centrifugation. Milk also has the presence of certain fat associated substances like vitamin A, D, E, cholesterol, phospholipids and carotene. It is carotene that is responsible for the yellow colour of the butter. It is absent in buffalo's milk.

\* Carbohydrates - It constitutes about 45% of milk and exists in a dissolved form. The main sugar present in milk is lactose. It favours the absorption of calcium, iron, zinc and phosphorus and the synthesis of some vitamin B complex in the small intestine. Hence, lactose forms an important dietary component.





## 2) Indigenous Buffalo breeds -

Buffalo species originated in IND. They are classified into 2 types namely the River and Swamp types. In India most of them are River type and are mainly milk breeds, hence the contribution of buffaloes to the total milk production is larger than that of the cow breeds. In fact, India is considered the home tract of some of the best buffalo breeds and has dominated the world trade in export of reputed breeds.

### 1) Murrah -

This breed has originated from Punjab - Haryana region. They have a docile temperament.

\* They have massive body frame with short broad back and short limbs. They possess short and curled horns.

\* Their colour is usually jet black with white streaks on face, tail and extremities.

\* The he-buffaloes are slow but powerful draft animals. The she-buffaloes have capacious udders and are good milk yielders. They yield about 1,400 to 2,000 kg milk / lactation.

### 2) Surti -

This breed has originated from Gujarat. They have a docile temperament.

\* They are medium sized with a characteristic straight back.

\* They have a fairly long head with sickle shaped horns which grow in a downward and backward direction and then turn upwards like a hook.

\* Their colour varies from black to brown,  
 \* The he-buffaloes are good for light work. The she-buffaloes have capacious udder and are good milk yielders. They yield about 800 to 1300 kg / lactation.

### 3) Mehsana -

This breed originated from Gujarat. It is a cross breed of Surti and Murrah. The body is longer than Murrah, the head is also longer and has long but less curved horns than Murrah.  
 \* Their colour usually varies bet<sup>n</sup> black and grey with white markings.  
 \* The he-buffaloes are slow but good for heavy work. The she-buffaloes have capacious udder and are good milk yielders. They yield about 1,200 to 1,500 kg milk / lactation.

### 4) Nagpuri -

This breed originated from central southern Orissa. They are also called Ellchpur or Barahi.

\* They have an elongated head with long curved horns.  
 \* Their colour is usually black with white patches restricted to face, legs and tips of tail.  
 \* The he-buffaloes are slow but are good for heavy work. The she-buffaloes have capacious udder and are good milk yielders. They yield about 700 to 1,200 kg milk / lactation.



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College with Potential for Excellence

## EXAMINATION



Class : BSC IV Sem

Subject : Zoology

Roll No. : 122

Date : 21.04.2018

Marks Scored : 

Test :

Signature of Valuer

Signature of the Invigilator with date

## ① Indigenous Buffalo breeds.

Buffalo species originated in India. They are classified into two types namely the river and swamp types. In India most of them are river types and are mainly milk breeds. Hence the contribution of buffaloes to the total milk production is larger than that of the cow breeds. In fact, India is considered the home tract of some of the best buffalo breeds and has dominated the world trade in export of reputed breeds.

1) Murrah

This breed has originated from Punjab, Haryana region. They have double temperament.

1) They have a massive body frame with short broad back & short limbs. They possess short and curved horns.

2) Their colour is usually jet black with white streaks on face, tail & extremities.

3) The he-buffaloes are slow and but powerful draft animals. The yield about 1,000 to 2,000 kg milk lactation.

2. Surti

This breed has originated from Gujarat.

1) They are medium sized with a characteristic straight back.

2) Their colour varies from black to brown.

3) The he-buffaloes are good for light work. The the buffaloes have capacious udder and are good.



milk yielders. They yield about 900 to 1300 kg lactation

### ③ Mehsana

This breed originated from Gujarat it is a cross breed of Purbi + Murrah.

- 1) The body is longer than murrah.
- 2) Their colour usually varies in black & grey with white markings.
- 3) The he-buffaloes are slow but good for heavy work. The she-buffaloes have capacious udder & good milk yielders. They yield about 1200 to 1500 kg milk / lactation.

### ④ Nagpuri - This breed originated from central India. They are also called Flichpuri or Barasi.

- 1) They have elongated head with long curved horns.
- 2) Their colour is usually black with patches restricted to face, legs & tips of tail.
- 3) The he-buffaloes are slow but good for heavy work. The she-buffaloes are have capacious & good milk yielders. They yield about 900 to 1200 kg lactation.





## 8) Nutritive value of milk

It is considered as a complete and ideal food as it contains the nutrients of a well balanced diet. Though the milk of various mammals is used for food, cow's milk is being used extensively throughout the world for feeding infants & as a supplement to the diet of children & adults. The milk of buffalo cow etc. are used as utilized as food. Various milk of various milk products such as curd, butter, ghee etc. are used commonly in our food preparations. Cow's milk provides around 67-70 kcal (calories of energy) 100 ml.

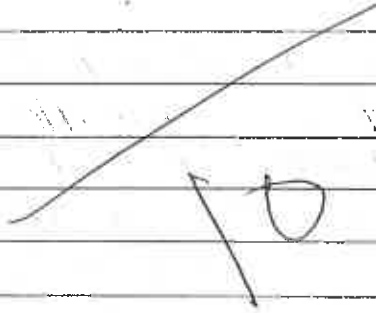
## Composition of milk

Milk is a complex fluid. It contains about 85% water & has the presence of different components in varied forms.

- > **Proteins** - It constitutes about 3.2% of the milk and exists in a colloid state. It is principally composed of casein which contains about 80% of the total protein content. Others are lactalbumin about 18%, lactoglobulin about 0.05 to 0.07%. Proteins are represented by enzymes, proteoses & peptones.
- > **Fat** - Cow's milk contains practically half the fat content of buffalo milk. It is about 4.1% of the milk. It can be separated by allowing milk to stand for some time after boiling. The fat rises to the surface as cream. It contains vitamins A, D, & E, cholesterol, phospholipids & carotene.
- > **Carbohydrates** - It constitutes about 4.5% of the milk & exists in a dissolved form. The main sugar present in milk is lactose. It favours the absorption of calcium, magnesium & phosphorus & the synthesis of some vitamin B complex in the

Small intestine Hence lactose forms an important dietary component.

7 Vitamins - It consists of vitamin A, D, E, K, thiamine, riboflavin & nicotinic acid & traces of vitamin C.



K. L. E. Society's

**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,**

**NIPANI - 591237**

(Reaccredited by NAAC at 'A' Level with CGPA 3.35) )



# Certificate

**DEPARTMENT OF ZOOLOGY**

This is to certify that Mr. / Miss. *Mounali Chendake*

of *B.Sc IV*

Semester has successfully completed a certificate course in

**Dairy Farming** during the year 2017-18

*[Signature]*

**Head  
Department of Zoology.**



*[Signature]*

**PRINCIPAL**





K.L.E. Society's  
G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237

Re-accredited at 'A' level by NAAC with CGPA 3.35

Affiliated to Rani Channamma University, Belagavi, Karnataka, India

Website: WWW.Klegibnpn.edu.in E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph: 08338-220116

### REPORT ON- CERTIFICATE COURSE DAIRY FARMING

Name of the Department	Zoology
Name of the Event Organized	Certificate Course
Title of the Event	Dairy farming
Date of the Event Organized	06-03-2018
Name of the Convener	Dr.Smt.V.R.Naik
Participants	28
No. of Participants	Total 28 Teachers 03 Students 25
Name of the Expert with Designation	Shri.Mattiwade
Contact Number & Address of the Expert	A/P-Nipani-Dist-Belagavi
Objectives of the Event	To study different breeds of cattles, maintenance of farm & different by products of milk.
Outcome of the Event	It is very informative lecture to the rural students to start their own business.

#### Photo Gallery



Cow breed Jersey



Students visit to ARS,Nipani to study cattle breeds

HOD

NUL

Department of Zoology,  
G.I. Bagewadi NIPANI

IOAC Co-ordinator

IOAC Co-ordinator

K.L.E's G. I. B. College, Nipani.

PRINCIPAL

PRINCIPAL

G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





## Department of Political Science

Certificate course in International Organization 2017-18

Registration Fees: Rs.50/-

### List of Students

SL.No.	Class	Names of Students
1	B.A. IV	Mr. Amar Nasalapure
2	B.A. IV	Miss. Amruta Khot
3	B.A. IV	Miss. Arati Kesti
4	B.A. IV	Mr. Beerappa .Zunake
5	B.A. IV	Miss. Kaveri Naik
6	B.A. IV	Miss. Madhuri . Desai
7	B.A. IV	Miss. Mahijabeen Parkuti
8	B.A. IV	Miss. Manisha . Pawar
9	B.A. IV	Mr. Manjunath. Bhanase
10	B.A. IV	Miss. Muskan. Jamadar
11	B.A. IV	Miss. Pooja Belaskar
12	B.A. IV	Miss. Pooja Kumbar
13	B.A. IV	Miss. Pragati. Magadum
14	B.A. IV	Miss. Pranita Shastri
15	B.A. IV	Mr. Prashant. Shidigiri
16	B.A. IV	Mr. Prathamesh .Patil
17	B.A. IV	Miss. Praveena .Chougale
18	B.A. IV	Mr. Raju. Janamati
19	B.A. IV	Mr. Ravi .Shiragavi
20	B.A. IV	Miss. Sangeeta. Takawade
21	B.A. IV	Mr. Santhosh .Shingadi
22	B.A. IV	Miss. Saraswati .Jedar
23	B.A. IV	Miss. Shruti. Hukkeri
24	B.A. IV	Miss. Shruti. Killedar
25	B.A. IV	Miss. Uzma. Goundi
26	B.A. IV	Mr. Virendra Patil
27	B.A. VI	Miss. Aishwarya .Ghodageri
28	B.A. VI	Miss. Akshata .Murgod
29	B.A. VI	Mr. Bharamurthy. Gavade
30	B.A. VI	Miss. Bharati. Divate
31	B.A. VI	Miss. Nasimabanu. Mulla
32	B.A. VI	Miss. Nivedita .Sabakale
33	B.A. VI	Miss. Pallavi Walake
34	B.A. VI	Miss. Pooja Gore
35	B.A. VI	Miss. Pradnya Kamble
36	B.A. VI	Miss. Rajashashri Mayannavar
37	B.A. VI	Mr. Sanju Kode
38	B.A. VI	Miss. Sheetal Ghatge
39	B.A. VI	Miss. Shifa Pangare
40	B.A. VI	Mr. Sunil Bedar
41	B.A. VI	Miss. Swati Pawar
42	B.A. VI	Miss. Vidyashri Kumbar
43	B.A. VI	Miss. Mayuri Bhairashetti

Convener



H.O.D.

Department of Political Science  
K.L.E's G.I.B. College, Niparti. Bagewadi College, Nipani.

PRINCIPAL

K. L. E. Society's

# Certificate course in International Organization

## Contents

- Unit – I :** Meaning , Growth & Classification of International Organization.
- Unit-II:** The League of Nations – Structure and Functions, Work and Achievements of League of Nations Failure of League of Nations
- Unit- III:** United Nations Organization- Origin of UNO, The Preamble, Purpose and Principles, Membership of UNO, The Principal Organs of UNO.
- Unit-IV :** The Specialized Agencies of UNO- U.N.E.S.C.O., F.A.O, I.L.O.,W.H.O.,I.M.F, World Bank
- Unit-V:** Accomplishments of UNO
- Unit-VI:** The Problem of disarmaments
- Unit-VII :** Human Rights under UNO



  
**PRINCIPAL**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

# DEPARTMENT OF POLITICAL SCIENCE


**Certificate Course in International Organization 2017-2018**

## TIME-TABLE

Class: B.A. II & IV SEMESTER

HALL.NO.22

Days	9.15 to 10.15	10.30 to 11.30	11.30 to 12.30	12.30 to 1.30	2.00 to 3.00	3.00 to 4.00	4.00 to 5.00
Monday							
Tuesday	I.O.						
Wednesday							I.O.
Thursday							
Friday							
Saturday							
Sunday		I.O.		I.O.			

  
H.O.D.  
Department of Political Science  
K.L.E's G.I.B. College, Nipani.

  
PRINCIPAL  
G. I. Dagewadi College, Nipani.



KLE Society's

# G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI

Department of Political Science



## Certificate

This is to Certify that Mr/Ms,

*Kavasi Naik*

of

*B. A. IV*

Semester has Successfully Completed

a Certificate Course in "International Organisations" During the Year 2017-18

Head

Department of Political Science



*M.B.L.*  
PRINCIPAL  
K. I. Principal  
G. I. Bagewadi College, Nipani

# NOTICE

## Department of English

All the degree students are hereby informed that Department of English is conducting self-financed Certificate course in "Communicative Skills" for the year 2017-18. The course duration is three months. Interested students can enroll their names with Miss Jayashree Magadum on or before 16<sup>th</sup> of January 2017. The details:

**Course:**

Communicative Skills

**Duration:**

Three Months

**Eligibility:**

Degree Students (Arts, Science and Commerce)

**Modules:**

1. Grammar
2. Dialogue practice
3. Speaking skills

**Fee Structure:**

Registration:
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Rs. 200/-
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**Convener** : Prof. U M Wadeyar

**Place** : GI Bagewadi College, Nipani.



  
**PRINCIPAL**  
**K. L. E. Society's**  
**G. I. Bagewadi College, Nipani.**





ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಬಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾಣಿ - 591237 ಜಿಲ್ಲಾ : ಬೆಳಗಾವಿ

KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist: Belgaum

Application form for admission to Certificate Course in  
Communicative English (CCCE) for the year 2017-18

**PARTICULARS OF APPLICANT**



1. Full Name of the applicant(As per SSLC)

MRUNALI DADASAHEB CHENDAKE

2. Class: BSC II<sup>nd</sup> Sem.

3. Category: III - B

4. Gender: Female

5. Address for Correspondence:

A/P - Kunnur Neer government hospital

Tal - Chikodi

Dist - Belgaum

6. Mobile No: 9591766565

7. E-mail ID: \_\_\_\_\_

Mr. Chendake  
Signature of Applicant





ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾಣಿ - 591237 ಜಿಲ್ಲಾ : ಬೆಳಗಾವಿ

**KLE Society's**  
**G. I. Bagewadi Arts, Science, Commerce & P. G. College,**  
**Nipani - 591237 Dist: Belgaum**

**Application form for admission to Certificate Course in  
Communicative English (CCCE) for the year 2017-18**

**PARTICULARS OF APPLICANT**



1. Full Name of the applicant(As per SSLC)

SNEHAL MARUTI JADHAV

2. Class: Bec II<sup>nd</sup> Sem

3. Category: III-B

4. Gender: Female

5. Address for Correspondence:

A/P Kunnur Near Busstand

Tal- Chikkodi Dist - Belgaum

6. Mobile No: 9686079510

7. E-mail ID: jsnehal791@gmail.com

*Snehal Jadhav*  
Signature of Applicant



KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani – 591237 Dist: Belgaum

Department of English

Certificate course in “Communicative Skills” for the year 2017-18

**Enrollment List**

SL. NO	Name of the Candidate	Roll No.	Class
1	Arati R Chavan		BSc II Sem
2	Anuja Patil		BSc II Sem
3	Bhakti A Patil		BSc II Sem
4	Bhakti B Patil		BSc II Sem
5	Lata Bharamal		BSc II Sem
6	Mrinali Chandaki		BSc II Sem
7	Nikita Jadhav		BSc II Sem
8	Nikita Patil		BSc II Sem
9	Namrata Patil		BSc II Sem
10	Namrata Hindole		BSc II Sem
11	Nivedeeta Dalave		BSc II Sem
12	Poonam Vadrale		BSc II Sem
13	Priti Kallimani		BSc II Sem
14	Reshma Mulla		BSc II Sem
15	Sameena Mulla		BSc II Sem
16	Sneha Patil		BSc II Sem
17	Sangeeta More		BSc II Sem
18	Tejashwini Desai		BSc II Sem
19	Vaishali B Adake		BSc II Sem
20	Varsha B Patil		BSc II Sem
21	Snehal Jadhav		BSc II Sem
22	Pallavi U Pujari		BSc II Sem
23	Rani Navale		BSc II Sem

2  
A 600 amount received  
on 20/04/2017 and  
credited to bank  
on 20/04/2017

Staff in charge

HOD

Head  
Department of English

PRINCIPAL  
K. L. E. Society's



K. L. E. Society's  
G. I. B. College, Nipani

KLE Society's  
**G. I. Bagewadi Arts, Science, Commerce & P. G. College,**  
Nipani – 591237 Dist: Belgaum

## *Department of English*

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### **Certificate Course in “Communicative Skills” for the year 2017-18**

#### **Introduction:**

First impressions they say are lasting impressions. Good communication skills today are of paramount importance in every sphere of life and are mainly responsible for the first impression a person makes on other people. This course is applicable for all those who would like to hone their English language and communication skills and leave lasting impressions in the minds of other people.

#### **Programme Objective:**

The programme serves as a tool to help one become more proficient in the English language. The emphasis is more on right usage of words and conversational English. The idea is to empower the student to communicate better, which will directly boost his / her confidence level. The course comprises of practice exercises and helpful hints to improve language skills. It has been prepared especially keeping the degree students in mind and has a very useful glossary of literary and communicative terms. The programme has a lot of





vocabulary building exercises to improve one's command over the English language and would thus prove beneficial to both students from the regional medium, as well as those having done their schooling through the English medium.

### **Course Duration:**

- Three Months (36hours)

### **Eligibility:**

- Degree (Arts, Science and Commerce)

### **Content of Course:**

- Unit 1: Grammar Skills
- Unit 2: Communication Skills
- Unit 3: English Sounds

### **Fee structure:**

<b>For Registration :</b>
Course Fees : Rs. 200/-

### **Documents Required:**

- 3 passport size current color photographs.
- 10th and Degree previous semester standard mark sheet



  
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**G. I. Bagewadi College, Nipani.**



### Syllabus of the Course:

Sl. No.	Topics / Units	Items to be taught	Total hours
1	Grammar Skills: <ul style="list-style-type: none"><li>- Parts of Speech</li><li>- Sentence Patterns</li><li>- Subject-Verb Agreement</li><li>- Use of Tense</li><li>- Correction of Errors</li></ul>	Grammar structures should be taught	13 hrs
2	Communication Skills: <ul style="list-style-type: none"><li>- Facing an Interview</li><li>- Dialogues</li><li>- Group Discussion</li><li>- Letter Drafting</li><li>- Report Writing</li><li>- Agenda Writing</li><li>- Notice Writing</li></ul>	Communication skills should be taught	10 hrs
3	English Sounds: <ul style="list-style-type: none"><li>- Vowel Sounds</li><li>- Consonant Sounds</li><li>- Stress Pattern</li></ul>	English Sounds and stress pattern should be taught	13 hrs



  
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K. L. E. Society's  
G. I. Bagewadi College, Nipani.

## ***CONVENER:***

**Prof. (smt) U M Wodeyar**.H.O.D.

## ***RESOURCE PERSONS:***

1. Smt. U.M.Wodeyar
2. Miss Shubham Kulkarni.

## ***REFERENCE:***

- N. Krishnaswamy: Modern English, MacMillan,2011.
- R. P. Sinha: Current English Grammar and Usages, Oxford University Press, 2002.
- K Krishnaswamy and T. Sriraman: Creative English Communication, MacMillan, 2009.
- N. Krishnaswamy and T. Sriraman: Current English for Colleges, MacMillan, 2012.
- Z. N. Patil: English for Practical Purposes, MacMillan, 2010.
- T. Balasubramania: A Text of English Phonetics for Indian Students, MacMillan, 2011.
- Bansal and Harison: Spoken English, Orient BlackSwan, 2013.

  
HOD

**Head**  
**Department of English**  
**KLE's G. I. B. College, Nipani.**



**Principal**  
**M. L. E. Society's**  
**G. I. Bagewadi College, Nipani.**



## A Certificate Course In Communicative Skills

(2017-18)

<sup>36</sup>  
Syllabus (40 hours)

1. Tenses	6 hours
Present Tense	
Past Tense	
Future Tense	
2. Modal verbs	6 hours
3. Sentence pattern and correction of errors	8 hours
4. Dialogue writing and practice	5 hours
5. Bilingual practice- Translation	3 hours
6. Use of possessive adjectives/ pronouns	3 hours
7. Transformation of sentences	4 hours
8. Short speeches	5 hours

### References:

1. English Grammar and composition, Wren and Martin, 2016 edition.
2. Advanced English Grammar Paperback- 2016 by D.S. Paul



  
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G. I. Bagewadi College, Nipani.

K.L.E. Society

G. I. Bagewadi Arts, Science, Commerce & PG College Nipani -- 2017-18

DEPARTMENT: ENGLISH

**Time-Table**

Year: 2017-18

**CERTIFICATE COURSE**

DAY	TIME	Resource person
Monday	9.am to 10.am	SRK
Tuesday	9.am to 10.am	SRK
Wednesday	9.am to 10.am	UMW

UMW = Uma Wodeyar

SRK= Shubham Kulkarni

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College, Nipani  
Subject: Communicative Skills

Time : 1 hour

Marks:40

**I. Fill in the blanks using correct form of the verbs in brackets.**

**(1x10=10)**

- (1) Susie \_\_\_\_\_ shopping in Causeway Bay.(love)
- (2) Causeway Bay \_\_\_\_\_ very busy.(be)
- (3) Betty \_\_\_\_\_ early.(not get up)
- (4) I \_\_\_\_\_ fruit.(not like)
- (5) School always \_\_\_\_\_ at eight o'clock in the morning.(start)
- (6) We usually \_\_\_\_\_ at school at half past seven.(arrive)
- (7) The dog \_\_\_\_\_ me. (like)
- (8) Henry \_\_\_\_\_ a nice school bag.(have)
- (9) She \_\_\_\_\_ television every night. (not watch)
- (10) I \_\_\_\_\_ that dress.(not like)

**II. Fill in the blanks using correct form of the verbs in brackets.**

**(1x10=10)**

1. Sam \_\_\_\_\_ (wash)his face every day.
2. Susie \_\_\_\_\_ (kiss)Mum every night.
3. Dad often \_\_\_\_\_ (carry)Susie's books.
4. Nick \_\_\_\_\_ (cook) dinner for his family every evening.
5. He \_\_\_\_\_ (brush)his hair every morning.
6. May often \_\_\_\_\_ (read)books.
7. Kitty \_\_\_\_\_ (wash) the dishes every night.
8. My bird \_\_\_\_\_ (fly) beautifully.
9. The dog \_\_\_\_\_ (like) eating bones.
10. My baby sister \_\_\_\_\_ (cry) every night.

**III. Choose the best option and fill in the blanks.**

**(1x10=10)**

1. Andrew \_\_\_\_\_ lunch by the time they arrived.  
a) finished            c) had finished  
b) was finished      d) has finished
2. I have a terrible headache. I \_\_\_\_\_ another aspirin.  
a) take            c) am taking  
b) 'll take      d) will be taking
3. A cold wind \_\_\_\_\_ for the last week.  
a) has been blowing            c) blows  
b) is blowing                      d) blew





4. We'll meet in September when she \_\_\_\_\_ back.  
 a) will come                      c) came  
 b) will have come                d) comes
  
5. Maria \_\_\_\_\_ a comic when the teacher asked her to come to the blackboard.  
 a) was reading                    c) read  
 b) has been reading              d) has read
  
6. You won't need the jacket. It \_\_\_\_\_ warmer.  
 a) gets                              c) 's got  
 b) 's getting                      d) 'd got
  
7. Bryan \_\_\_\_\_ when the meeting started.  
 a) hasn't arrived                    c) hasn't been arriving  
 b) hadn't arrived                  d) wasn't arriving
  
8. To be honest, I \_\_\_\_\_ she will be able to handle this properly.  
 a) doubt                            c) am doubting  
 b) have doubted                  d) will doubt
  
9. They \_\_\_\_\_ for 5 years at the end of this year.  
 a) will date                        c) will be dating  
 b) will have been dating        d) are going to date
  
10. I am not surprised they've broken up. She never knew if she could trust him and was afraid he \_\_\_\_\_ her.  
 a) will leave                        c) would leave  
 b) is going to leave                d) will have left

IV. Fill in the blanks using correct form of the verbs in brackets.

(1x10=10)

1. He \_\_\_\_\_ (have/not) any brothers.
2. Betty \_\_\_\_\_ (have) one sister.
3. Yuki \_\_\_\_\_ (have/not) a very nice dress.
4. The cat \_\_\_\_\_ (have) a very good place to live at.
5. They \_\_\_\_\_ (have/not) a very big house.
6. We \_\_\_\_\_ (have) a very kind class teacher.
7. Peter and Jason \_\_\_\_\_ (have) a powerful computer.
8. I \_\_\_\_\_ (have) 5 members in my family.
9. She \_\_\_\_\_ (have/not) long hair.
10. He \_\_\_\_\_ (have) white teeth.



KLE Society's

**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI**

**Department of English**



# Certificate

This is to Certify that **Mr/Ms,**

**Mounali**

**Chenelake**

of

**B.Sc II Sem**

Semester has Successfully Completed

a Certificate Course in "Communicative Skills" During the Year 2017-18

**Shubha**

**Head**

**Department of English**



**Principal**



K.L.E. Society's

**G. I. Bagewadi Arts, Science & Commerce College, Nipani**

[Accredited at 'A' Grade by NAAC with 3.35 CGPA]

Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

Phone No: 08338-220116

## Department of English

### Report on Certificate Course (2017-18)

Considering the essence of English communication in this competitive world, the department of English conducted certificate course "**Communicative Skills**" during the academic year 2017-18. On 4<sup>th</sup> January, 2020 a notice was issued by the department regarding the certificate course. 43 students joined the certificate course.

Smt.U. M. Wadeyar and Miss. Shubham Kulkarni were the resource persons of the certificate course. Eventually, evaluation of the students was done through written test. The course lasted for 36 hours from 23<sup>rd</sup> January, 2018 to 12<sup>th</sup> April, 2018. Later, certificates were awarded to the students.

*Rulla*  
HOD  
Head  
Department of English  
K.L.E.'s G. I. B. College, Nipani.

*M. B. Ch.*  
PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.



IV

11



K.L.E. Society's



**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

Ph: 08338-220116, 220416

Website: [www.klegibnnpn.org](http://www.klegibnnpn.org)  
E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

**Application form for admission to Certificate Course in "Non -Brahmin  
leader Sri Panditappa Chikodi" for the year 2017- 18**

To,

HOD of History

K.L.E. Society's G. I. Bagewadi college, Nipani

**PARTICULARS OF APPLICANT**

1) Full Name of the applicant

ALMAS YUNUS MULLA

2) Class : B.A I<sup>st</sup> year.

3) Category : III B

4) Gender : Female

5) Address for correspondence:

Alp Pattankudi, Tal: Chikodi,

Dist: Belgaum

Contact No.: 9900349659

6) E-mail ID : -

Ayroulla  
8/2/18  
Signature of Applicant





K.L.E. Society's



**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

Ph: 08338-220116, 220416

Website: [www.klegibnnpn.org](http://www.klegibnnpn.org)  
E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

**Application form for admission to Certificate Course in "Non -Brahmin  
leader Sri Panditappa Chikodi" for the year 2017- 18**

To,

HOD of History

K.L.E. Society's G. I. Bagewadi college, Nipani

**PARTICULARS OF APPLICANT**

1) Full Name of the applicant

CHAITANA S. UPADHYE

2) Class : BA I<sup>st</sup> year

3) Category : III B

4) Gender : Female

5) Address for correspondence:

Chintamani Nivas, Anand Nagar, Akkol  
Road, Nipani, Tal: Chikodi, Dist: Belgaum

Contact No.: 9844471008

6) E-mail ID : Chaitana.05@gmail.com

  
Signature of Applicant





SL.No	CERTIFICATE COURSE	AMOUNT
1	Almas yunus Mulla	Rs 50
2	Bahubali Chandrakant Anggale	Rs 50
3	Chaitana S Upadhya	Rs 50
4	Harsita Gangadhar Yadav	Rs 50
5	Maruti Ningappa Gavade	Rs 50
6	Sandya B Bansode	Rs 50
7	Shivani R chandagade	Rs 50
8	Sahana Mallikarjuna Bagi	Rs 50
9	Sangita Ningappa Mali	Rs 50
10	Pallavi Shantynath Kurde	Rs 50
11	Gayatri Iragouda Patil	Rs 50
12	Prashant Arun Patil	Rs 50
13	Priya prakas Bhoje	Rs 50
14	Pooja ravsab Patil	Rs 50
15	Pallavi a chougale	Rs 50
16	Reshma j mutnale	Rs 50
17	Vandana a malaj	Rs 50
18	Sneha N Mangsuli	Rs 50
19	Pratima U Paramaje	Rs 50
20	gazal Rafiq Gawandi	Rs 50
21		
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26		
27		
28		
29		



Focus on  
employability.  
Social Sector -

Start date  
next step

SL.No	CERTIFICATE COURSE	AMOUNT
1	Almas yunus Mulla	Rs 50
2	Bahubali Chandrakant Anggale	Rs 50
3	Chaitana S Upadhya	Rs 50
4	Harsita Gangadhar Yadav	Rs 50
5	Maruti Ningappa Gavade	Rs 50
6	Sandya B Bansode	Rs 50
7	Shivani R chandagade	Rs 50
8	Sahana Mallikarjuna Bagi	Rs 50
9	Sangita Ningappa Mali	Rs 50
10	Pallavi Shantynath Kurde	Rs 50
11	Gayatri Iragouda Patil	Rs 50
12	Prashant Arun Patil	Rs 50
13	Priya prakas Bhoje	Rs 50
14	Pooja ravsab Patil	Rs 50
15	Pallavi a chougale	Rs 50
16	Reshma j mutnale	Rs 50
17	Vandana a malaj	Rs 50
18	Sneha N Mangsuli	Rs 50
19	Pratima U Paramaje	Rs 50
20	gazal Rafiq Gawandi	Rs 50
21		
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Certificate course in

Shri. Panditappa R. Chikodi Non-Brahmin leader - clearing the year

2017-2018.



# **Sri Panditappa R Chikodi**

## **Non -Brahmin leaders**

### **Chapters**

- 1. Early life**
- 2. Contribution of sri Panditappa R Chikodi to Non -Brahmin community**
- 3. Sri Panditappa R Chikodi and other Non -Brahmin leaders**
- 4. Conclusion**



## References

1. K le samsteya yugapurusharu a collection of life history of by A R Patil kle society belgaum 2004 p89-95
2. Bombay legislative council debates volume xxxv 18<sup>th</sup> oct 1932 p1684-1690
3. Ibid Vol no XXXIX 10<sup>th</sup> march 1934 p.1357-58
4. Ibid Vol no XXXXii july 8<sup>th</sup> and 9<sup>th</sup> 1935 p1058-59
5. Ibid Vol no Xlv july 8<sup>th</sup> and 9<sup>th</sup> 1935 p71-164
6. Ibid Vol no Xlv 2nd oct 1936 p1368-69
7. Ibid Vol no VII 1922 P. 542-543
8. Ibid Vol no VI 1923 2<sup>nd</sup> March P. 620-21
9. Ibid Vol no xi V 1925 26 aug P. 676-80

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagarwal College, Nipani.



K. L. E. Society's

# G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,

NIPANI - 591237

(Re-accredited at 'A' Level by NAAC with CGPA 3.35)



## Certificate

DEPARTMENT OF HISTORY

This is to certify that **Mr. Miss.** Almas Mulla

of B. A I Semester has successfully completed a certificate course in

**Shri. Panditappa R. Chikodi Non-Brahmin Leader** during the year 2017 -2018

  
Head

Department of History.



  
PRINCIPAL  
PRINCIPAL  
K. L. E. Society's





**K.L.E. Society's**

**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

**[Re-accredited at 'A' level by NAAC with CGPA 3.35]**

Date : 02.08.2017

**DEPARTMENT OF PHYSICS**

**NOTICE**

Our department is going to start a certificate course in Designing of power supply for the academic year 2017-2018. The interested students are informed to enroll their names in Department of physics on or before 16<sup>th</sup> August 2017.

Principal  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI  
Department of Physics &  
Commerce College, NIPANI



  
HOD

Head  
Department of Physics  
G.I. Bagewadi College, NIPANI

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

K. L. E Society's

G.I. Bagewadi Arts, Science, Commerce & PG College, Nipani

DEPARTMENT OF PHYSICS

Application form for admission to Certificate Course in "DESIGNING OF POWER SUPPLY" for the year 2017- 18

To,

HOD of Physics

K.L.E. Society's G. I. Bagewadi college, Nipani

PASS PORT SIZE  
PHOTO

PARTICULARS OF APPLICANT

1) Full Name of the applicant

Priyanka D Mohite

2) Class : B.S.C VI<sup>th</sup> sem

3) Category : 3 B

4) Gender : Female

5) Address for correspondence:

Alp : Gattaga

Tal : Chikkodi

dist : Belgum

Contact No.: 9901885557

6) E-mail ID : \_\_\_\_\_

Priyanka  
Signature of Applicant



K. L. E Society's

G.I. Bagewadi Arts, Science, Commerce & PG College, Nipani

DEPARTMENT OF PHYSICS

Application form for admission to Certificate Course in "DESIGNING OF POWER SUPPLY" for the year 2017- 18

To,  
HOD of Physics  
K.L.E. Society's G. I. Bagewadi college, Nipani

PASS PORT SIZE  
PHOTO

PARTICULARS OF APPLICANT

1) Full Name of the applicant

Madhuri Sanjay Hawaldar

2) Class : B.Sc VI<sup>th</sup> sem

3) Category : III B

4) Gender : Female

5) Address for correspondence:

A/P : Hanchnal (K-3)

Tal : Gu Nipani

Dist : Belgaum

Contact No.: 741147387

6) E-mail ID : \_\_\_\_\_

  
Signature of Applicant



KLE'S

G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI.

DEPARTMENT OF PHYSICS

CERTIFICATE COURSE IN PHYSICS

2017-2018

**DESIGNING OF POWER SUPPLY**

**LIST OF STUDENTS**

SL.NO	NAME OF THE STUDENTS	CLASS
1	PRIYANKA MOHITE	B.Sc VI sem
2	MADHURI HAVALDAR	B.Sc VI sem
3	POOJA YADAGUDE	B.Sc VI sem
4	MANISHA PATHADE	B.Sc VI sem
5	SANMATI MUNNOLI	B.Sc VI sem
6	SHRADHA GURAV	B.Sc VI sem
7	SNEHA KAGE	B.Sc VI sem
8	AKSHATA PATIL	B.Sc VI sem
9	SNEHAL KHOT	B.Sc VI sem
1	SHRUTIKA PATIL	B.Sc VI sem
11	LAXMI MULLOLI	B.Sc VI sem
12	PRATIMA SADALAGE	B.Sc VI sem
13	SANAMATI CHOUGALA	B.Sc VI sem
14	SAMMED PATIL	B.Sc VI sem
15	SANDEEP GHASTE	B.Sc VI sem
16	SADANAND SWAMI	B.Sc VI sem
17	ANIL BANNE	B.Sc VI sem
18	PRATIK PATIL	B.Sc VI sem
19	NIKIT NIMBALKAR	B.Sc VI sem
20	MHALU DIVATE	B.Sc VI sem
21	RANI KHOT	B.Sc VI sem
22	SHUBHANGI PARIT	B.Sc VI sem
23	REKHA PATIL	B.Sc VI sem
24	RAJESHWARI JANAWADE	B.Sc VI sem
25	HARSHADA NIGAVE	B.Sc VI sem



*Palle*  
Head  
Department of Physics  
K.L.E's G. I. B. College, Nipani.

# SYLLABUS

## UNIT-I

1. Active components, Passive components.

02 Hours

i) Battery, Transistor, Rectifier

ii) Capacitors, Inductors, Resistors

## UNIT-II

1. Transformers: Types

04 Hours

i) Step up transformer

ii) Step down transformer

iii) Turn Ratio

## UNIT-III

1. Diode: Types

04 Hours

i) Diode as a rectifier

ii) Zener diode

## UNIT-IV

1. Rectifier: Types

04 Hours

i) Half wave rectifier

ii) Full wave rectifier

iii) Bridge rectifier

2. Determination of  $V_{dc}$ ,  $I_{dc}$ , Voltage drop & Efficiency.





## UNIT-V

### 1. Filters: Types

05 Hours

i) Capacitor input filter

ii) Inductor input filter

iii) LC filter

### 2. Efficiency, Ripple factor and PIV

## UNIT-VI

### 1. Circuit diagram and explanation of circuit diagram.

05 Hours

Total

24 Hours

### Practical's:

- Designing of 9 volt dc battery eliminator.

24 Hours

Total:

48 Hours

  
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# DEPARTMENT OF PHYSICS

## CERTIFICATE COURSE IN PHYSICS

2017-2018

### DESIGNING OF POWER SUPPLY

#### TIME TABLE

THEORY	
DAY	TIME
MONDAY	4.00 pm to 6.00 pm
TUESDAY	4.00 pm to 6.00 pm
PRACTICAL	
THURSDAY	4.00 pm to 6.00 pm
SATURDAY	4.00 pm to 6.00 pm

  
Head  
Department of Physics  
G. I. Bagewadi College, NIPANI



  
PRINCIPAL  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI

## Distribution of Syllabus

S. No.	Name of The Teacher	Units
1	Dr. M.B.Kothale	1
2	Dr R.G.Kharabe	2
3	Prof A.D.Tigadi	3
4	Prof.V.N.Chougule	4
5	Prof. P.R. Patil	5

*A*

**HOD,  
Head**

**Department of Physics  
K.L.E's G. I. B. College, Nipani.**




**DEPARTMENT OF PHYSICS**  
**CERTIFICATE COURSE IN PHYSICS**  
**2017-2018**

**DESIGNING OF POWER SUPPLY**

**FINALEXAM MARKS LIST**

SL.NO	NAME OF THE STUDENTS	CLASS	MARKS
1	PRIYANKA MOHITE	B.Sc VI sem	20
2	MADHURI HAVALDAR	B.Sc VI sem	21
3	POOJA YADAGUDE	B.Sc VI sem	22
4	MANISHA PATHADE	B.Sc VI sem	19
5	SANMATI MUNNOLI	B.Sc VI sem	24
6	SHRADHA GURAV	B.Sc VI sem	23
7	SNEHA KAGE	B.Sc VI sem	25
8	AKSHATA PATIL	B.Sc VI sem	17
9	SNEHAL KHOT	B.Sc VI sem	19
10	SHRUTIKA PATIL	B.Sc VI sem	23
11	LAXMI MULLOLI	B.Sc VI sem	22
12	PRATIMA SADALAGE	B.Sc VI sem	22
13	SANAMATI CHOUGALA	B.Sc VI sem	19
14	SAMMED PATIL	B.Sc VI sem	20
15	SANDEEP GHASTE	B.Sc VI sem	25
16	SADANAND SWAMI	B.Sc VI sem	23
17	ANIL BANNE	B.Sc VI sem	23
18	PRATIK PATIL	B.Sc VI sem	20
19	NIKIT NIMBALKAR	B.Sc VI sem	24
20	MHALU DIVATE	B.Sc VI sem	19
21	RANI KHOT	B.Sc VI sem	20
22	SHUBHANGI PART	B.Sc VI sem	19
23	REKHA PATIL	B.Sc VI sem	18
24	RAJESHWARI JANAWADE	B.Sc VI sem	20
25	HARSHADA NIGAVE	B.Sc VI sem	20



  
Head  
Department of Physics  
G. I. Bagewadi, NIPANI

  
PRINCIPAL  
K. L. S. Society's  
G. I. Bagewadi College, Nipani.




K.L.E. Society's  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)


Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

**REPORT ON CERTIFICATE COURSE ON "DESIGNING OF POWER SUPPLY"**

Name of the Department	Physics
Name of the Event Organized	Certificate Course
Title of the Event	Designing of Power Supply
Date of the Event Organized	16/8/2017
Name of the Convener	HOD of Physics
Participants	27
No. of Participants	Total 27 Teachers 02 Students 25
Name of the Expert with Designation	Prof. Vishal Coughle, Professor, Department of Physics
Contact Number & Address of the Expert	Cell No : 8095737365 KLE'S G.I. Bagewadi College, Nipani
Objectives of the Event	To develop a power conversion system suitable for supplying power to both ac & dc loads simultaneously from both ac sources such as the power grid & dc sources such as photovoltaic panel.
Outcome of the Event	Students can design power supply for electronic devices like T.V Refrigerator, computers etc & will get employability in Electronics companies.
Photo Gallery	

  
IQAC Coordinator  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



  
HOD  
Department of Physics  
K.L.E's G. I. B. College, Nipani.

  
Principal  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.



IV 13

K.L.E. Society's

G.I.Bagewadi Arts, Science & Commerce College, Nipani.

Department of Physics

NOTICE

Certificate Course 2017-18

"MOBILE REPAIRING"

All the B.Sc Students<sup>(VI<sup>th</sup> SEM) (PCM)</sup> are hereby informed that Department of Physics is going to start Certificate Course in "MOBILE REPAIRING" for the year 2017-18 from 30/01/2018.

"MOBILE REPAIRING" is very essential in this trend. We are all aware about technological Developments. So, interested students of B.Sc take the benefit of it and are informed to enroll their names in the department of Physics on or before 29/01/2018. Time table and Syllabus will be notified later.

HOD

Head

Department of Physics  
K.L.E's G. I. B. College, Nipani.

Co-ordinator

PRINCIPAL

PRINCIPAL

G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI



**Application form for admission to Certificate Course in "MOBILE REPAIRING" for the year 2017- 18**

To,

HOD of Physics

K.L.E. Society's G. I. Bagewadi college, Nipani



**PARTICULARS OF APPLICANT**

1) Full Name of the applicant

AARIF N. PATHAN

2) Class : B.Sc VI sem

3) Category : HB PCM

4) Gender : M


5) Address for correspondence:

A/P - Bhoj

Tq - chikodi

Contact No.: 8792637035

6) E-mail ID : ~~www~~ aarifpathan6174@gmail.com

  
Signature of Applicant





K.L.E. Society's

**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

[Re-accredited at 'A' level by NAAC with CGPA 3.35]

Ph: 08338-220116, 220416

Website: [www.kleglbnpn.org](http://www.kleglbnpn.org)  
E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

**Application form for admission to Certificate Course in "MOBILE REPAIRING" for the year 2017- 18**

To,  
HOD of Physics  
K.L.E. Society's G. I. Bagewadi college, Nipani



**PARTICULARS OF APPLICANT**

1) Full Name of the applicant

Ajit. Khot.

2) Class : B.Sc. VI<sup>th</sup> sem

3) Category : Sec. PCM

4) Gender : Male

5) Address for correspondence:

A/P: Ramnagar Nipani, Tq: Chikodi,

Dist: Belagavi

Contact No.: 9535197909

6) E-mail ID : ajitkhot888@gmail.com

Signature of Applicant



**K.L.E.'s G.I.BAGEWADI COLLEGE, NIPANI**  
**DEPARTMENT OF PHYSICS**  
**CERTIFICATE COURSE IN "MOBILE REPAIRING"**  
**Year- 2017/18**  
**STUDENTS ENROLLMENT LIST**

SL.NO	NAME OF THE STUDENTS	CLASS
1	Arif Pathan	B.Sc VI SEM
2	Ajink mahajan	B.Sc VI SEM
3	Ajit khot	B.Sc VI SEM
4	Amar Langote	B.Sc VI SEM
5	Akshata Bilikudre	B.Sc VI SEM
6	Archana kamate	B.Sc VI SEM
7	Asmita Burji	B.Sc VI SEM
8	Amruta Patil	B.Sc VI SEM
9	Ashwini Gadakari	B.Sc VI SEM
10	Anand Patil	B.Sc VI SEM
11	Ameet Patil	B.Sc VI SEM
12	Akshay Heggana	B.Sc VI SEM
13	Jyoti chavan	B.Sc VI SEM
14	Karishma Aparaj	B.Sc VI SEM
15	Laxmi Honnamani	B.Sc VI SEM
16	Mahantesh Patil	B.Sc VI SEM
17	Nitin Deshmane	B.Sc VI SEM
18	Nikita Kamane	B.Sc VI SEM
19	Nikita Paymalle	B.Sc VI SEM
20	Pooja Patil	B.Sc VI SEM
21	Pooja Yadav	B.Sc VI SEM
22	Prashant Hiremath	B.Sc VI SEM
23	Priya Patil	B.Sc VI SEM
24	Pranjali Potadar	B.Sc VI SEM
25	Poonam Kamble	B.Sc VI SEM
26	Shubhangi Parit	B.Sc VI SEM
27	Suraj Koot	B.Sc VI SEM
28	Sunil Dhang	B.Sc VI SEM
29	Sourabh Panade	B.Sc VI SEM
30	Shreemanti Patil	B.Sc VI SEM
31	Shruti Patil	B.Sc VI SEM
32	Salamabi Nadaf	B.Sc VI SEM
33	Vani Bhairshetti	B.Sc VI SEM



  
**PRINCIPAL**  
**K. L. E. Society's**  
**G. I. Bagewadi College, Nipani.**

**K.L.E.'s G.I.BAGEWADI COLLEGE, NIPANI**

**DEPARTMENT OF PHYSICS**

**CERTIFICATE COURSE IN "MOBILE REPAIRING"**

**Syllabus: THEORY**

**TOTAL 30 hours**

**Unit I**

Basic Electronics- Introduction to electronics, charge, voltage, type of current,

Electronic Components- Identification and overview

**Unit II**

Mobile Phone- History of mobile phone, Principle, construction and working, GSM, CDMA structure and generation of mobile phones, frequency and channels, GPRS, Bluetooth and Infrared Wi-Fi, Sim, and IMEI.

**Unit III**

Mobile phone assembly and disassembly, Chip level soldering and desoldering, complete software repairing-software training with coding, Chinese mobile phone repairing.

**LIST OF EXPERIMENTS**

1. Components Information
2. Total disassemble and assemble of phones- 3 to 4 phones.
3. Components replacement
4. Check faulty components
5. Account Sharing- Gmail and Apple (I cloud) Accounts.

**NOTE: All the units are of 5 hours duration.**

**Experiments are of 3 hours duration.**



  
**PRINCIPAL**  
**K. L. E. Society's**  
**G. I. Bagewadi College, Nipani.**



## Distribution of Syllabus

S. No.	Name of The Teacher	Units
1	Dr. M.B.Kothale	1
2	Dr R.G.Kharabe	2
3	Prof A.D.Tigadi	3
4	Prof.V.N.Chougule	4
5	Prof. P.R. Patil	5

*A*  
HOD  
Department of Physics  
G.I. Bagewadi College, NIPANI  
Head  
*[Signature]*  
Head  
Department of Physics  
G.I. Bagewadi College, NIPANI



**K.L.E.'s G.I.BAGEWADI COLLEGE, NIPANI**

**DEPARTMENT OF PHYSICS**

**CERTIFICATE COURSE IN "MOBILE REPAIRING"**

**Year- 2017/18**

**TIME TABLE- THEORY**

<b>DAY</b>	<b>TIME</b>
Monday	5 to 6
Tuesday	5 to 6

**TIME TABLE – PRACTICALS**

<b>DAY</b>	<b>TIME</b>
Thursday	2 to 5

**NOTE:** The duration of the Certificate Course is one and half months.

Duration- Theory + Practicals = 30 hours.



**K.L.E.'s G.L.BAGEWADI COLLEGE, NIPANI**  
**DEPARTMENT OF PHYSICS**  
**CERTIFICATE COURSE IN "MOBILE REPAIRING"**  
**Year- 2017/18**  
**STUDENTS MARK LIST**

SLNO	NAME OF THE STUDENTS	CLASS	Marks
1	Arif Pathan	B.Sc VI SEM	18
2	Ajink mahajan	B.Sc VI SEM	19
3	Ajit khot	B.Sc VI SEM	20
4	Amar Langote	B.Sc VI SEM	18
5	Akshata Bilikudre	B.Sc VI SEM	17
6	Archana kamate	B.Sc VI SEM	15
7	Asmita Burji	B.Sc VI SEM	16
8	Amruta Patil	B.Sc VI SEM	20
9	Ashwini Gadakari	B.Sc VI SEM	18
10	Anand Patil	B.Sc VI SEM	20
11	Armeet Patil	B.Sc VI SEM	20
12	Akshay Heggana	B.Sc VI SEM	16
13	Jyoti chavan	B.Sc VI SEM	20
14	Karishma Aparaj	B.Sc VI SEM	19
15	Laxmi Honnamani	B.Sc VI SEM	17
16	Mahantesh Patil	B.Sc VI SEM	17
17	Nitin Deshmane	B.Sc VI SEM	19
18	Nikita Kamane	B.Sc VI SEM	20
19	Nikita Paymalle	B.Sc VI SEM	20
20	Pooja Patil	B.Sc VI SEM	19
21	Pooja Yadav	B.Sc VI SEM	19
22	Prashant Hiremath	B.Sc VI SEM	18
23	Priya Patil	B.Sc VI SEM	20
24	Pranjali Potadar	B.Sc VI SEM	18
25	Poonam Kamble	B.Sc VI SEM	19
26	Shubhangi Parit	B.Sc VI SEM	18
27	Suraj Koot	B.Sc VI SEM	15
28	Sunil Dhang	B.Sc VI SEM	18
29	Sourabh Panade	B.Sc VI SEM	18
30	Shreemanti Patil	B.Sc VI SEM	20
31	Shruti Patil	B.Sc VI SEM	20
32	Salamabi Nadaf	B.Sc VI SEM	17
33	Vani Bhairshetti	B.Sc VI SEM	20



**PRINCIPAL**  
**K. L. E. Society's**  
**G. L. Bagewadi College, Nipani.**



KLE Society's

# G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI



Department of Physics

## Certificate of Participation

This is to certify that Mr/Ms. Jyoti Chavan  
of B.Sc VI Semester has completed certificate course in physics entitled

“ Mobile Repairing ” during the year 2017-18.

*R. R. R.*

Head of the Department



*M. R.*  
Principal  
K. L. E. Society's



K.L.E. Society's  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)


Website: [www.klegibnnpn.edu.in](http://www.klegibnnpn.edu.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116


**REPORT ON CERTIFICATE COURSE ON "MOBILE REPAIRING"**

Name of the Department	Physics
Name of the Event Organized	Certificate Course
Title of the Event	Mobile Repairing
Date of the Event Organized	29/1/2018
Name of the Convener	HOD of Physics
Participants	37
No. of Participants	Total 37 Teachers 04 Students 33
Name of the Expert with Designation	Shri Nandakumar Potadar
Contact Number & Address of the Expert	Cell No : 9156770077 Rjarampuri Kolhapur
Objectives of the Event	With complications in technologies used for making the mobile phone, the need for complicated repair has also increased. This creates the demand for well trained individuals
Outcome of the Event	Employability in Mobile companies & Rural youth can be engaged and empowered with self employment.

**Photo Gallery**



  
**IQAC Coordinator**  
**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
**HOD**  
**Head**  
Department of Physics  
K.L.E.'s G. I. B. College, Nipani.



  
**PRINCIPAL**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.





K.L.E. Society's

**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

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Ph: 08338-220116, 220416

Website: [www.klegibnnpn.org](http://www.klegibnnpn.org)  
E-mail: [klegib\\_nnpn@yahoo.co.in](mailto:klegib_nnpn@yahoo.co.in)

## DEPARTMENT OF PHYSICS

### CERTIFICATE COURSE IN "MOBILE REPAIRING"

#### BRIEF REPORT 2017-18

KLE's G.I. Bagewadi College, Nipani. Department of Physics conducted a certificate course in "MOBILE REPAIRING" for the year 2017-18.

The duration of certificate was 30 hours including practical sessions. A course was inaugurated on 30<sup>th</sup> January 2018. Shri Nandakumar Potadar a mobile repairing technician from Kolhapur was invited to conduct a course.

In first session of five hours we dealt with basic electronics, identification of components & its overview. The second session of five hours was about history of mobile phones, GSM, CDMA structures, GPRS, SIM & Internet. In session III of ten hours we covered total disassemble & assemble of mobile phones. In session IV of ten hours we replaced components & we checked faulty components in the mobile phones.

Total 33 students were participated in this certificate course.

  
HOD

Head  
Department of Physics  
G.I. Bagewadi College, NIPANI



  
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14  
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E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

## DEPARTMENT OF BOTANY

Ref.- GIBN/Bot/CC/Hort-1

Date: 27.12.2017

### NOTICE

Department of Botany is introducing a "Certificate Course in Horticultural techniques" in the month of. The interested students can enroll their names to Dr. S.D.Payamalle on or before 2<sup>nd</sup> January 2018.

HOD  
HEAD

Department of Botany  
G. I. Bagewadi College, Nipani.

PRINCIPAL

Principal,  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





K. L. E. Society's  
G. I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237  
[Re-accredited at 'A' level by NAAC with CGPA 3.35]

Website: www.kleglbcollge.com

Ph: 08338-220116, 220416

E-mail: kleglbnbotany@gmail.com

## DEPARTMENT OF BOTANY

Students enrolled for Certificate Course 2018

Name	Fees in Rs.	Sign of student
Achal Magadum	300	
Akshay Havaladar	300	
Ankita Magadum	300	
Arati Bhalebaidar	300	
Archana Kumbar	300	
Ashwini Sabale	300	
Harsha Shirkoli	300	
Varsha Jabade	300	
Kalyani Shitole	300	
Karisma Halakarni	300	
Kaveri Kumbar	300	
Laxmi Shetti	300	
Mahadevi Banase	300	
Maruti Gurav	300	
Mayuri Jasud	300	
Pallavi Kumbar	300	
Pallavi Nagave	300	
Shivani Patil	300	
Pragati Patil	300	
Reshma Chougule	300	
Rushikesh Majage	300	
Sanobar Mulla	300	
Shraddha Sangane	300	
Shruti Chonchannavar	300	
Sonali Naik	300	
Tejashree Mangavate	300	
Trupti Kamble	300	
Uzma Mulla	300	
Varsha Kenawade	300	
Vijayakumar Karoshi	300	
Yashoda Hunakumpi	300	
Megharani Patil	300	
Aishwarya Modi	300	
Chaitanya Chavan	300	

Botany Dept Certificate Course fee

B. I. College Draft

18557

Syndicate Bank

दिनांक/Date: 02/10/18

शाखा/ Branch: G. I. Bagewadi College

हालत में जमा के लिए/ Nature of A/c: Cash

राशि सं./ Amount: 10,200/-

रुपये (शब्दों में)/ the sum of Rupees (in words): Thousand two hundred

रकम/चेक द्वारा/by Cash/Cheque

₹ 10,200/-

खर्चा/Cashier

प्राधिकृत हस्ताक्षर/ Authorised Signatory

HEAD  
Department of Botany  
G. I. Bagewadi College, Nipani.



PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

## DEPARTMENT OF BOTANY

### Certificate Course in Horticultural techniques

#### Introduction:

**Horticulture** is the branch of agriculture that deals with the art, science, technology, and business of growing plants. It includes the cultivation of medicinal plants, fruits, vegetables, nuts, seeds, herbs, sprouts, mushrooms, algae, flowers, seaweeds and non-food crops such as grass and ornamental trees and plants. It also includes plant conservation, landscape restoration, landscape and garden design, construction, and maintenance, and arboriculture. Inside agriculture, horticulture contrasts with extensive field farming as well as animal husbandry

#### Programme Objective:

Through Horticulture one can apply their knowledge, skills, and technologies used to grow intensively produced plants for human food and non-food uses and for personal or social needs.

They can work to propagate plants and cultivate them with the aim of improving plant growth, yields, quality, nutritional value, and resistance to insects, diseases, and environmental stresses.

It makes people to work as gardeners, growers, therapists, designers, and technical advisors in the food and non-food sectors of horticulture. Horticulture even refers to the growing of plants in a field or garden.

**Course Duration:** Three Months (30 hrs theory + 10 hrs practical= 40 hours)

**Eligibility:** SSLC/PUC/ to read and write



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## DEPARTMENT OF BOTANY

### Syllabus of the Course:

#### Unit 1:

8 hrs

- Methods of Propagation: Natural and Artificial
- Landscaping- means of plant resources conservation

#### Unit 2: Green House technology:

8 hrs

- Introduction , advantages and limitations
- Types and structure.
- As applied to ornamental, vegetable, fruit and medicinal plants

#### Unit 3: Harvest Technology:

8 hrs

- Management of Flowers and fruits
- Artificial ripening
- Post harvest technology

#### Unit 4: Weed Management:

6 hrs

- Invasive weeds
- Weed control

### Practicals:

2 hrs each

6. Tools used in horticulture
7. Study of methods of vegetative propagation
8. Bonsai techniques
9. Flower arrangement
10. Vegetable carving

Fee structure: Rs. 300/-

CONVENER: Prof. (smt) S.B.Patil<sub>H.O.D.</sub>

RESOURCE PERSONS: Prof. Dr. S.D.Payamalle.

Prof. Smt. Shilpa Sunnal



  
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## DEPARTMENT OF BOTANY

Ref.- GIBN/Bot/CC/Hort-2

Date:03.01.2018

### TIME-TABLE

#### CERTIFICATE COURSE IN HORTICULTURAL TECHNIQUE"

On every Sunday two classes of one and half hour duration.

On alternate Sundays two hours practical

Day / Time	10 am-11.30am	11.30am-1.00pm	1.30pm-3.30pm
1 <sup>st</sup> Sunday	Theory	Theory	-
2 <sup>nd</sup> Sunday	Theory	Theory	Practical
3 <sup>rd</sup> Sunday	Theory	Theory	-
4 <sup>th</sup> Sunday	Theory	Theory	Practical

Effective from January 2018

  
HOD  
HEAD

Department of Botany  
G. I. Bagewadi College, Nipani.

  
PRINCIPAL

Principal,  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.





**K.L.E.Society's**  
**G.I.Bagewadi Arts, Science and Commerce College, Nipani**  
**Examination 2017-18**  
**Certificate Course in Horticultural Techniques**

**Time: 30 mins**

**Marks: 30**

**Answer any Fifteen of the following. Each carries equal marks**

**2X15 = 30**

1. What is a lawn?
2. What are the miniature gardens?
3. How Floribunda is resulted?
4. Give the reason why Sulphuric acid can't be used as flower preservative?
5. Name the atomic rays used for mutation breeding in plants in atomic garden.
6. Define green carpet.
7. Name the vascular plant grown in garden that do not have flowers and seeds.
8. Name the plant developed by TNAU by mutation.
9. How are the lines in Hogarth course?
10. Why is heating is essential in Bouganvillea?
11. Name the disease caused in Tulip.
12. What intensity of light is suggested for cut flowers to be exposed
14. What is the size of Bonsai of bonsai?
15. Why is capillary mat used in hydroponics?
16. What is Pot-Porris?





(Re-accredited at 'A' Level by NAAC with CGPA 3.254)

## EXAMINATION

Class : BSC V sem

Subject : Horticulture Tech.

Roll No. : 95

Date : 17/4/2018

Marks Scored : 

Test :

Signature of Valuer

Signature of the Invigilator with date

4. 1

1/2 Lawn is an area covered with green grass. It is termed as green carpet.

2. Miniature gardens

The Japanese rock garden or zen garden has miniaturized look with skillfully sculptured rocks, pruned trees, beautifully created river, hills & hillocks.

3. The first floribunda is a result of the cross between Hybrid Teas X perpetual polyanthas in 1924.

2 The cultivar was Rodhatte.

4. sulphuric Acid is an odourless, colourless chemical. It is soluble in water. It has exothermic nature & can't be used as flower preservative.

5. cobalt-60 and caesium-130 are radioactive atomic source. These atomic / gamma rays are used for mutation breeding in plants in atomic garden.

6. Lawn is a green carpet. It is a special feature of any home garden. The ideal area of a lawn under home garden should be up to 30%.

7. Fern is a member of vascular plants which produces spores. Flower & seeds are absent.





8. Pitchi or coimbatore-1 is developed by TNAU by mutation.
9. Lines in Hogarth curve are curved & and serpentine shaped originated during 18<sup>th</sup> century. It is an art originated from William Hogarth's painting.
10. Bottom heating is very essential to bougainvillea. It is necessary process to regulate soil temperature. Temperature should be 25-29°C.
11. Sower is a disease caused by fusarium. It is common in tulip.
12. Scientific research suggests that the cut flowers should be exposed to red or blue light about 2000-2500 lux.
13. The bonsai of bonsai is known as mamie. Standard size of mamie is 2-6 inch.
14. In passive hydroponics capillary mat is used as nutrient reservoir. Maintenance of a large quantity of plant is possible with passive hydroponics.
15. Pot-porriss is a special floral arrangement in which mixture of smelling leaves, spices, seeds, roots and essential oils are filled in sachets.



K.L.E. SOCIETY'S

**GIBAGEWADI ARTS, SCIENCE & COMMERCE  
COLLEGE NIPANI - 591 237** (Karnataka-India)

(Reaccredited by NAAC at 'A' Level with CGPA 3.35)

## “Certificate Course in Horticultural Techniques”

*Conducted By*

**DEPARTMENT OF BOTANY**

# Certificate

This is to certify that Mr./Ms. *Laxmi Shetti* of

*B.S.C.*

has completed the Certificate Course in

Horticultural Techniques satisfactorily and secured \_\_\_\_\_ grade.

*[Signature]*

**HEAD**

**DEPT. OF BOTANY**



*[Signature]*  
**PRINCIPAL**



## DEPARTMENT OF BOTANY

Ref.:

Date: 17.04.2018

### Report on Certificate course in Horticultural Techniques 2017-18

Name of the Department	Botany
Name of the Event Organized	Certificate course
Title of the Event	Horticultural Techniques
Date of the Event Organized	January to April 2018
Name of the Convener	Smt. S.B.Patil
Participants	V semester Botany Students
No. of Participants	17
Name of the Expert with Designation	Dr. S.D.Payamalle and Smt. S.S.Sunnal
Contact Number & Address of the Expert	K.L.E.GI.Bagewadi College, Nipani
Objectives of the Event	To develop skill in Horticultural techniques
Outcome of the Event	Participants can work as gardeners, growers, garden technique advisers

  
HOD

Head

Department of Botany

K.L.E's G. I. B. College, Nipani.

  
IQAC Coordinator

IQAC Co-ordinator

K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL

K. L. E. Society's

G. I. Bagewadi College, Nipani.





Ph: 08338-220116, 220416

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G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237  
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
## DEPARTMENT OF BOTANY

Ref. - GIBN/Bot/CC/FN-1

Date: 11.01.2018

### NOTICE

Department of Botany is introducing a “Certificate Course in Food Processing and Nutrition” in the month of February 2018. The interested students can enroll their names to Smt. S.B.Patil on or before 20<sup>th</sup> January 2018.

  
HOD  
Head  
Department of Botany  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
Principal,  
G. I. Bagewadi Arts, Science &  
Commerce College, NIPANI.



**DEPARTMENT OF BOTANY****Certificate course in Food processing and Nutrition****Introduction:**

Nutrition assumes a vital part of one's health and well being. A decent balanced diet keeps the body active and fit. The course prepares the candidates in the areas of nutrition, food, health and management. The candidates will get the knowledge and skills in food science, cooking, menu planning or preparation, innovations and technology in new healthy foods, special diets, catering and cafeteria. Food processing and Nutrition certificate course helps to provide students with a broad range of both fundamental principles and innovative practices in the subject areas, so they may be able to apply their knowledge proficiently in the food and health sectors and in related industries. The course is designed to enable the students to engage in direct services for older adults such as old age homes, residential and day care facilities, rehabilitation services in the government and private sector.

**Programme Objective:**

The goal of this certificate program is to provide an all-encompassing overview of current substance, nutrition problems and issues along with their effects on social, emotional, physical, and spiritual health.

The course focus on understanding nutritional science, creating awareness on nutrition, its role and benefits, interpretation of nutrition, people's nutrition needs, teaching others and implementation of the nutrition program.

**Course Duration:** Three Months (30 hrs theory + 10 hrs practical= 40 hours)

**Eligibility:** SSLC/PUC/ to read and write



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## DEPARTMENT OF BOTANY

### SYLLABUS FOR CERTIFICATE COURSE IN FOOD PROCESSING AND NUTRITION

UNIT I. Introduction and importance and scope of food and nutrition. 02 hrs

UNIT II. Food Science: Food, function, food groups, nutrient compositions.

Cereals, Pulses, Vegetables and Fruits, Milk and milk products 12 hrs

UNIT III. Food chemistry: Carbohydrates, lipids, Proteins and their interaction.

Food safety: Food spoilage, control of micro-organisms. 06 hrs

UNIT IV. Food Processing and Preservation: 10 hrs

Fee structure: Rs. 300/-

CONVENER: Prof. (Smt) S.B.Patil<sub>H.O.D.</sub>

RESOURCE PERSONS: Prof. Smt. S.B.Patil

#### EVALUATION METHOD:

- Theory: One paper of one and half hrs duration for 30 marks
- Practical: 2 hours duration for 20 marks

#### REFERENCE:

- Foods: Facts and Principles by N.Shakuntala Manay & M. Shadaksharaswamy. New Age International Publishers, New Delhi.
- Food Fundamentals by Williamsons M. John Willey & Sons. Inc. N.Y.
- Food Science by Patter M.N, AVI Publ.Co.N.Y
- Industrial Microbiology by Cassida L.T. wiley Eastern Ltd., London



  
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**DEPARTMENT OF BOTANY**

**TIME-TABLE**


**CERTIFICATE COURSE IN FOOD PROCESSING AND NUTRITION**

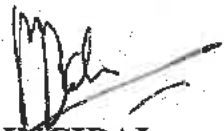
On every Sunday two classes of one and half hour duration.

On alternate Sundays two hours practical

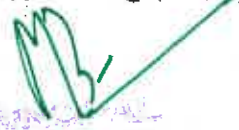
Day / Time	10 am-11.30am	11.30am-1.00pm	1.30pm-3.30pm
1 <sup>st</sup> Sunday	Theory	Theory	-
2 <sup>nd</sup> Sunday	Theory	Theory	Practical
3 <sup>rd</sup> Sunday	Theory	Theory	-
4 <sup>th</sup> Sunday	Theory	Theory	Practical

Effective from February 2018

  
**HOD** Head  
 Department of Botany  
 K.L.E.'s G. I. B. College, Nipani.

  
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 Principal,  
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 Commerce College, NIPANI.



  
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2017-18

Certificate course in Food Processing & Nutrition - 2018

Reg. No.	Roll No.	Student Name	28/01/19	04/02/19	11/02/19	18/02/19	25/02/19	04/03/19	11/03/19	18/03/19	25/03/19	01/04/19	08/04/19	15/04/19	22/04/19	29/04/19	06/05/19	13/05/19	20/05/19	27/05/19	03/06/19	10/06/19	17/06/19	24/06/19	01/07/19		
1	82	Akshay Havaldar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
2	83	Ankita Magachum	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
3	85	Archana Kumbhar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
4	86	Ashwini Sabale	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
5	87	Harsha Shirkole	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
6	90	Karishma Halkarni	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
7	91	Kaveti Kumbhar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
8	99	Shivani Patil	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
9	102	Rushikesh Majake	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
10	103	Sanobai Mulla	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
11	105	Shweta choncharnavas	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
12	106	Sonal Naik	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
13	107	Tejashree Mangarabate	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
14	109	Uzma Mulla	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
15	111	Vijaykumar Karoshi	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
16	113	Mezharani Patil	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										
17	114	Aishwarya Modi	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15										

*(Handwritten signature)*



PRINCIPAL  
A. L. E. Society's  
G. I. Bapewas College, Nipani.

26  
30

K.L.E.Society's  
G.I.Bagewadi Arts, Science and Commerce College, Nipani  
Certificate Course Examination 2017-18  
Food Processing and Nutrition

Time: 90 minutes

Marks : 30

All Questions carry equal marks  
Tick the right answer for following questions

30 X 1 = 30

Roll.No. 83

1. The mode of obtaining food for growth, energy, repair, and maintenance is called

- a. Carbohydrate
- b. Nutrition
- c. Calorie
- d. Fatty acid

2. All of the following are the components of foods except\_\_\_\_\_.

- a. Carbohydrates
- b. Proteins
- c. Vitamins
- d. Fiber

4. Which of the following are called macronutrients?

- a. Carbohydrates, Proteins, and Vitamins
- b. Minerals, Proteins, and Vitamins
- c. Carbohydrates, Proteins, and Fats
- d. Proteins, Fats, and Minerals.

5. Which of the following are the micronutrients?

- a. Vitamins and Minerals
- b. Proteins and Vitamins
- c. Carbohydrates and Fats
- d. Proteins and Minerals

6. Which components of food are called body builder?

- a. Carbohydrates
- b. Proteins
- c. Vitamins
- d. Minerals

7. Which of the following nutrients is the energy producer?

- a. Carbohydrates and Proteins
- b. Proteins and Fats
- c. Carbohydrates and Fats
- d. Proteins and Vitamins



8. Which of the following is called Metabolic regulators?

- a. Vitamins and Minerals
- b. Vitamins and Water
- c. Minerals and Roughage
- d. Carbohydrates and Vitamins

9. Which of the following are the primary products of photosynthesis?

- a. Proteins
- b. Carbohydrates
- c. Minerals
- d. Water

10. The elements present in the carbohydrates are

- a. Carbon, Hydrogen, and Oxygen
- b. Carbon, Hydrogen, and Nitrogen
- c. Hydrogen, Oxygen, and Sulphur
- d. Carbon, Oxygen, and Nitrogen

11. How much energy will you get from one gram of glucose?

- a. 3.8 kilocalories
- b. 4.2 kilocalories
- c. 4.8 kilocalories
- d. 5.2 kilocalories

12. How much percentage of calories are contributed by carbohydrates in the most of our diets?

- a. 45
- b. 48
- c. 50
- d. 40

13. What is the formula for glucose?

- a.  $C_6H_{12}O_6$
- b.  $C_6H_6O_{12}$
- c.  $C_6H_6O_6$
- d.  $C_{12}H_6O_{11}$

14. Which of the following is the sweetest among naturally occurring sugar?

- a. Glucose
- b. Lactose
- c. Starch
- d. Fructose

15. Which of the following carbohydrates give the instant source of energy?

- a. Glucose
- b. Fructose
- c. Cellulose
- d. Starch



16. Which of the following is found more in the human milk in comparison to milk of cow, buffalo, and goat?

- a. Lactose
- b. Fructose
- c. Starch
- d. Cellulose

17. Which of the following are the examples of Monosaccharides?

- a. Glucose, galactose, and fructose
- b. Galactose, maltose
- c. Cellulose, starch, and glycogen
- d. Glucose and cellulose

18. Monosaccharides are formed by how many sugar molecules?

- a. Two sugar molecules
- b. One sugar molecule
- c. Three sugar molecules
- d. Five sugar molecules

19. Oligosaccharides are formed by how many sugar molecules?

- 7+1
- a. 2 to 5 monosugars
  - b. 3 to 6 monosugars
  - c. 2 to 10 monosugars
  - d. 5 to 10 monosugars

20. Which of the following are the examples of Oligosaccharides/Disaccharides?

- a. Maltose, sucrose, lactose
- b. Lactose, sucrose
- c. Maltose, sucrose, cellulose
- d. None

21. Which of the following are the examples of Polysaccharides?

- a. Cellulose, glucose, sucrose
- b. Cellulose, starch, glycogen
- c. Glycogen, starch
- d. Cellulose, starch, glycogen, heprin

22. Which of the following are structural polysaccharides?

- a. Cellulose and chitin
- b. Cellulose and starch
- c. Heprin and starch
- d. None

23. The human body uses carbohydrates in the form of \_\_\_\_.

- a. Glucose
- b. Glycogen
- c. Starch
- d. enzymes



24. In which form body stores glucose?

- a. Cellulose
- b. Starch
- c. Glycogen and cellulose
- d. Glycogen

25. Which organ of human body stores glucose in the form of glycogen?

- a. Lungs
- b. Liver and muscles
- c. Stomach and muscles
- d. Small intestine

26. The brain and RBC needs energy source in the form of

- a. Proteins
- b. Glucose
- c. Fats
- d. Enzymes

27. If a person has not consumed food for a period of time then blood glucose levels start to get low then which organ of body release glucose into the bloodstream to maintain healthy levels?

- a. Liver
- b. Heart
- c. Heart and Liver
- d. Muscles

28. Condensation of glucose molecules ( $C_6H_{12}O_6$ ) results in

- a. starch
- b. cellulose
- c. glycogen
- d. glucagon

29. Starch ( $C_6H_{10}O_5$ )<sub>n</sub> is broken down to form glucose ( $C_6H_{12}O_6$ ) units when hydrolysed by

- a. alkaline base
- b. acidic base
- c. neutral base
- d. salty base

30. Lactose ( $C_{12}H_{22}O_{11}$ ) can be hydrolyzed in glucose ( $C_6H_{12}O_6$ ) and galactose ( $C_6H_{12}O_6$ ) in the presence of the enzyme

- a. lactase
- b. maltase
- c. sucrose
- d. lipases



K.L.E. SOCIETY'S

G I BAGEWADI ARTS, SCIENCE & COMMERCE  
COLLEGE NIPANI - 591 237 (Karnataka-India)

(Accredited by NAAC at 'A' Level with CGPA 3.35)

# “FOOD PROCESSING AND NUTRITION”

Conducted By

DEPARTMENT OF BOTANY

## Certificate

This is to certify that Mr./Ms. Yasuha Konaowade of

B. Sc

has completed the Certificate Course in

Food Processing and Nutrition satisfactorily and secured \_\_\_\_\_ grade.

*[Signature]*

CO-ORDINATOR



*[Signature]*  
PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.



## DEPARTMENT OF BOTANY

Ref.:E:/E/Cert/1pg

Date: 17.04.2018

### Report on Certificate course in Food Processing and Nutrition 2017-18

Name of the Department	Botany
Name of the Event Organized	Certificate course
Title of the Event	Food Processing And Nutrition
Date of the Event Organized	January to April 2018
Name of the Convener	Smt. S.B.Patil
Participants	V semester Botany Students
No. of Participants	17
Name of the Expert with Designation	S.B . Patil
Contact Number & Address of the Expert	G. I. Bagewadi College, Nipani
Objectives of the Event	To create awareness about nutrition
Outcome of the Event	Students learnt the of Food and Nutrition

  
HOD

Head

Department of Botany  
K.L.E's G. I. B. College, Nipani.

  
IQAC Coordinator  
K.L.E's G. I. B. College, Nipani.

  
Principal

PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.





Ph .08338220116 ,220416

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e-mail : [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

IQAC- Initiative

Date: 20/12/2016


**Department of chemistry**  
**Certificate course - Water Analysis**  
**Notice**

The department of Chemistry organising Certificate course for B.Sc. VI<sup>th</sup> Semester students on "Water analysis" which is jointly organised with research lab at Devachand College Arjun-Nagar Nipani.

All the B.Sc. VI<sup>th</sup> Semester students are here by informed to enroll their names to Prof. Prashant T. Narawade for certificate course in Chemistry, on or before 24/12/2016.

  
Convener

  
HOD  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.

  
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Website: [www.klegibnpn.org.in](http://www.klegibnpn.org.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2016-17**  
**ENROLLMENT FORM**

Mr./Miss.: Abhijit Sankannaver of Class : B.Sc VI Sem Date: 24/12/16  
Roll No.: 01  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

[Signature]  
Staff Incharge

[Signature]  
Head  
HOD  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.



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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2016-17**  
**ENROLLMENT FORM**

Mr./Miss.: Akshata Navanale of Class : B.Sc VI Sem Date: 24/12/2016  
Roll No.: 02  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

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Staff Incharge

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Department of Chemistry  
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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2016-17**  
**ENROLLMENT FORM**

Mr./Miss.: Akshay Khavare of Class : B.Sc VI Sem Date: 25/12/16  
Roll No.: 03  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

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Staff Incharge

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HOD  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.





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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2016-17**  
ENROLLMENT FORM

Mr./Miss.: Akshay Kamate of Class : B.Sc. V Sem Date: 28/12/18  
Roll No.: 04  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

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Staff Incharge

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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2016-17**  
ENROLLMENT FORM

Mr./Miss.: Amol Nikam of Class : B.Sc. V Sem Date: 28/12/18  
Roll No.: 05  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

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Department of Chemistry  
**CERTIFICATE COURSE IN WATER ANALYSIS - 2016-17**  
ENROLLMENT FORM

Mr./Miss.: Anjum Mujawar of Class : B.Sc. V Sem Date: 30/12/18  
Roll No.: 06  
Has enrolled for Certificate Course in Water Analysis for the academic year 2016-17.

[Signature]  
Staff Incharge

[Signature]  
Head  
HOD  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.



**G.I. Bagewadi Arts, Science & Commerce College Nipani**  
**ADMISSION & ROLL CALL OF B.Sc. V & VI SEMESTER FOR THE**  
**YEAR 2016-17**



ROLL No.	REG.NO	SEX	NAME	FATHER	CASTE	SUBJECTS OFFERED		
						PHY	CHEM	MAT
1	S1417201	M	ABHIJIT SANKANNAVAR	SHIVSHANKAR	3B	PHY	CHEM	MAT
2	S1417204	F	AKSHATA NAVANALE	SUBHASH	2A	PHY	CHEM	MAT
3	S1417205	M	AKSHAY KHAVARE	SATTAPPA	3B	PHY	CHEM	MAT
4	S1417206	M	AKSHAY KAMATE	PRAKASH	3B	PHY	CHEM	MAT
5	S1417207	M	AMOL NIKAM	SAMBHAJI	3B	PHY	CHEM	MAT
6	S1417208	F	ANJUM MUJAWAR	BASHUDDIN	2B	PHY	CHEM	MAT
7	S1417209	F	ARADHINI KAGE	ANNASAHEB	3B	PHY	CHEM	MAT
8	S1417211	F	ASHWINI JADHAV	BHANUDAS	3B	PHY	CHEM	MAT
9	S1417212	F	ASHWINI KHOT	SHIVAJI	3B	PHY	CHEM	MAT
10	S1417215	F	PADMASHRI BHOJGAR	VIJAY	3B	PHY	CHEM	MAT
11	S1417216	F	CHAITALI BABAR	PRAKASH	3B	PHY	CHEM	MAT
12	S1417217	F	CHAYA GADAKARI	APPASO	2A	PHY	CHEM	MAT
13	S1417221	M	DAYANAND KUMBAR	DASHRATH	2A	PHY	CHEM	MAT
14	S1417222	F	DEEPALI NAVI	MAHADEV	2A	PHY	CHEM	MAT
15	S1417223	M	RANJEET DESAI	BHAUSO	3B	PHY	CHEM	MAT
16	S1417224	F	SHRUTIKA DESAI	VIJAY	3B	PHY	CHEM	MAT
17	S1417225	F	DHANASHREE NAVANALE	RAJENDRA	3B	PHY	CHEM	MAT
18	S1417226	F	DHARMASHREE SOMANKHOT	MAHAVEER	3B	PHY	CHEM	MAT
19	S1417227	M	GANAPA SHENDRE	SHANKAR	3B	PHY	CHEM	MAT
20	S1417228	F	GAYATRI KAMBLE	SURESH	SC	PHY	CHEM	MAT
21	S1417229	M	HIRACHAND DONAGE	ADINATH	3B	PHY	CHEM	MAT
22	S1417235	F	KHUSHBOO NAIK	SHIRAJ	2B	PHY	CHEM	MAT
23	S1417238	M	ABHIJEET KONE	APPASO	2A	PHY	CHEM	MAT
24	S1417239	F	KRUTIKA LAKKANNAVAR	SUBHASH	3B	PHY	CHEM	MAT
25	S1417240	M	VISHAL KUMBHAR	SANJAY	2A	PHY	CHEM	MAT
26	S1417241	F	LAXMI PATIL	SHANKAR	3B	PHY	CHEM	MAT
27	S1417243	M	MAHESH KOOT	BALU	3B	PHY	CHEM	MAT
28	S1417245	F	NAKUSHA KHOT	MAHADEV	3B	PHY	CHEM	MAT
29	S1417246	F	NAMRATA CHOUGULE	DEEPAK	3B	PHY	CHEM	MAT
30	S1417247	F	NIKITA JADHAV	SHRIKANT	3B	PHY	CHEM	MAT
31	S1417249	F	PALLAVI SHANDAGE	SANJAY	3B	PHY	CHEM	MAT
32	S1417250	M	GUNADHAR PATIL	DHONDIRAM	3B	PHY	CHEM	MAT
33	S1417253	F	PAYAL KSHIRSAGAR	BAJIRAO	3B	PHY	CHEM	MAT
34	S1417255	F	POOJA PATIL	MALAGOUDA	3B	PHY	CHEM	MAT
35	S1417256	F	PRADNYA GOURAI	MALLAPPA	3B	PHY	CHEM	MAT
36	S1417257	M	PRASHANT HEGANNA	SHRIKANT	3B	PHY	CHEM	MAT
37	S1417258	F	PRATIBHA OTARI	RAMA	CAT-I	PHY	CHEM	MAT
38	S1417260	F	PRIYA KANKANWADI	JAYAKUMAR	3B	PHY	CHEM	MAT
39	S1417261	F	PRIYA PANCHAXARI	SIDALINGAPPA	2A	PHY	CHEM	MAT
40	S1417263	F	PRIYANKA DAVANE	BALASAB	SC	PHY	CHEM	MAT
41	S1417264	F	PRIYANKA HAVALDAR	PRAVEEN	3B	PHY	CHEM	MAT
42	S1417265	F	PRIYANKA CHOUGULE	RAJARAM	3B	PHY	CHEM	MAT
43	S1417266	F	PRIYANKA PATIL	SHRIKANT	3B	PHY	CHEM	MAT
44	S1417269	M	RANJEET HALAPPANAVAR	MAHADEV	3B	PHY	CHEM	MAT
45	S1417273	M	ROHAN DABHADE	SURESH	SC	PHY	CHEM	MAT
46	S1417275	F	SABREEN TAHSILDAR	MUSHTAQ	2B	PHY	CHEM	MAT
47	S1417280	F	SANGEETA BHADAKAR	BASAVRAJ	3B	PHY	CHEM	MAT
48	S1417282	M	SANTOSH INGALE	PRABHAKAR	3B	PHY	CHEM	MAT



ROLL No.	REG.NO	SEX	NAME	FATHER	CASTE	SUBJECTS OFFERED		
49	S1417283	F	SARASWATI SHEBANNAVAR	BASAPPA	3B	PHY	CHEM	MAT
50	S1417285	F	SAVITA KAMBLE	RAVINDRA	SC	PHY	CHEM	MAT
51	S1417286	F	SAYALI KULKARNI	PRABHAKAR	GM	PHY	CHEM	MAT
52	S1417290	F	ARCHANA SHINTRE	ANNASO	3B	PHY	CHEM	MAT
53	S1417291	F	SHITAL TANGADE	MAHADEV	3B	PHY	CHEM	MAT
54	S1417293	F	SHRUTIKA PATIL	NARSAGOUDA	3B	PHY	CHEM	MAT
55	S1417294	M	SHUBHAM RODD	BAHUBALI	3B	PHY	CHEM	MAT
56	S1417295	M	SHUBHAM DEVAMURE	PREMKUMAR	3B	PHY	CHEM	MAT
57	S1417296	M	SOORAJ PATIL	RAMGOUDA	3B	PHY	CHEM	MAT
58	S1417300	F	SUJATA GHATAGE	NAMDEV	SC	PHY	CHEM	MAT
59	S1417302	M	SUNIL JANGATE	SHANTINATH	3B	PHY	CHEM	MAT
60	S1417305	M	SURAJ KUMBAR	DUNDAPPA	2A	PHY	CHEM	MAT
61	S1417308	F	SWATI PATIL	TANAJI	3B	PHY	CHEM	MAT
62	S1417310	M	UMARFAROOK JAMADAR	SHAMSHUDDIN	2B	PHY	CHEM	MAT
63	S1417311	M	VARDHAMAN PATIL	RAJGONDA	3B	PHY	CHEM	MAT
64	S1417312	M	VIRESH SHIRAGAVI	MALLIKARJUN	3B	PHY	CHEM	MAT
65	S1417313	M	VISHAL JABADE	RAJENDRA	3B	PHY	CHEM	MAT
66	S1417202	M	ABHISHEK SULTANNAVAR	ANNASAHEB	3B	CHEM	BOT	ZOO
67	S1417213	M	VISHAL AWATI	ANNASAHEB	3B	CHEM	BOT	ZOO
68	S1417214	M	BALKRISHNA PATIL	ARJUN	3B	CHEM	BOT	ZOO
69	S1417218	M	AVADHUT CHINCHANE	SURESH	3B	CHEM	BOT	ZOO
70	S1417219	M	CHINMAY KULKARNI	NANDKUMAR	6M	CHEM	BOT	ZOO
71	S1417231	F	FARHEEN JAMADAR	MOHAMMADSA	2B	CHEM	BOT	ZOO
72	S1417232	F	SANIYA JAMADAR	GULAB	2B	CHEM	BOT	ZOO
73	S1417234	F	SUHASINI KADAM	VINODKUMAR	SC	CHEM	BOT	ZOO
74	S1417236	F	KIRTI PATIL	ASHOK	3B	CHEM	BOT	ZOO
75	S1417237	F	TEJASWINI KONDEKAR	RAJENDRA	3B	CHEM	BOT	ZOO
76	S1417242	F	KOMAL MAHAJAN	BALASO	3B	CHEM	BOT	ZOO
77	S1417248	F	NISHA MAGADUM	MAHADEV	3B	CHEM	BOT	ZOO
78	S1417251	F	RUTUJA PATIL	KESHAVRAO	3B	CHEM	BOT	ZOO
79	S1417252	F	SHWETA PATIL	NANASAHEB	3B	CHEM	BOT	ZOO
80	S1417254	F	POOJA LUKK	DILEEP	3B	CHEM	BOT	ZOO
81	S1417259	M	PRAVIN BATTE	BALASO	2A	CHEM	BOT	ZOO
82	S1417262	F	PRIYANKA SHINDE	BALKRISHNA	3B	CHEM	BOT	ZOO
83	S1417267	F	PRIYANKA KAMATE	SUDHAKAR	3B	CHEM	BOT	ZOO
84	S1417270	M	RANJIT PUNDE	DATTATRAY	3B	CHEM	BOT	ZOO
85	S1417274	F	ROHINI PATIL	ANIL	3B	CHEM	BOT	ZOO
86	S1417277	M	SACHIN KULKARNI	RAMCHANDRA	GM	CHEM	BOT	ZOO
87	S1417279	M	SAGAR SANGANE	GAJANAN	3B	CHEM	BOT	ZOO
88	S1417281	F	SANMATI MEKKALIKE	MALAKARI	SC	CHEM	BOT	ZOO
89	S1417284	F	NIKITA SAVANT	SURESH	3B	CHEM	BOT	ZOO
90	S1417288	F	SHEETAL SHIROLE	CHANDRAKANT	3B	CHEM	BOT	ZOO
91	S1417289	M	SHEKHAR JOLE	ABHINANDAN	3B	CHEM	BOT	ZOO
92	S1417292	M	SHIVANAND SHENDRE	APPASAB	3B	CHEM	BOT	ZOO
93	S1417298	F	SUJATA MAGADUM	MADHUKAR	2A	CHEM	BOT	ZOO
94	S1417299	F	SUJATA KUMBAR	NAGENDRA	2A	CHEM	BOT	ZOO
95	S1417303	M	SURAJ PATIL	JANARDAN	3B	CHEM	BOT	ZOO
96	S1417304	M	SURAJ PATIL	KALGOUDA	3B	CHEM	BOT	ZOO
97	S1417307	F	SWATI SANKPAL	RAJENDRA	3B	CHEM	BOT	ZOO
98	S1417314	M	VIVEK CHAVAN	BALASO	3B	CHEM	BOT	ZOO
99	S1417315	F	PREETI YADAV	GANGADHAR	SC	CHEM	BOT	ZOO
100	S1417316	F	DEEPIKA KULKARNE	PRAKASH	3B	CHEM	BOT	ZOO





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Website: www.klegibnnpn.edu.in E-mail: klegib\_npn@yahoo.co.in Ph.: 08338-220116

### IQAC INITIATIVE

Department of Chemistry

Certificate Course in Water Analysis

Syllabus for Water Analysis

Theory

(16 Hours)

#### Chapter I

##### Introduction

(3 Hours)

1.1 Environment and Environmental Pollution

1.2 Elements of environment

1.3 Types of pollution & pollutant

1.4 Water as natural resource

Ref

1) Global warming and environmental laws by H.V. Jadhav, Dr. S. H. Purohit.

#### Chapter II Water Pollution

(3 Hours)

2.1 Introduction water pollution & its definition

2.2 Physical and chemical properties of water

2.3 Classification of water pollutants

2.4 Sources of water pollution

Ref.

Water pollution by Dr. Anuradha Salpekar.

#### Chapter III Waste Water Treatment

(4 Hours)

3.1 Characteristics (parameters) of waste water

3.2 Treatment of water pollution

3.3 Preprimary treatment

3.4 Primary treatment

3.5 Secondary treatment

3.6 Tertiary treatment

Ref

1) Environmental pollution Analysis by S.M. Khopkar.

#### Chapter IV Instrumentation for Water Analysis

(6 Hours)

4.1 TDS rating for various types of water

4.2 Determination of pH and electrical conductivity of water sample

4.3 Estimation of Na and K present in water sample by using flame photometry

4.4 Estimation of chloride in water sample

4.5 Estimation of carbonate and bicarbonate present in water sample

4.6 Estimation of calcium and magnesium in water sample

Ref

1) Environmental pollution Analysis by S.M. Khopkar.



  
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G. I. Bagewadi College, Nipani.





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**Practicals**

**(16 Hours)**

Sl. No.	Name of the experiment
1	To determine Total Alkalinity of Water
2	To determine the total hardness of the water sample
3	To determine pH and conductance of waste water
4	To determine Dissolve oxygen of waste water
5	To determine Chemical oxygen demand of waste water
6	To determine Acidity of Water
7	To determine TS, TSS, TDS of water
8	To determine salinity of the given water sample
9	To determination of pH, moisture and humidity of soil
10	To determine carbonate of soil
11	To determine gypsum of soil

  
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## DEPARTMENT OF CHEMISTRY

### Certificate Course (Water Analysis)

2016-17

### STAFF LIST

- Dr. A. S. Jaganure
- Dr. S. B. Solabannavar
- Prof. G. B. Kumbar
- Mr. P. T. Narawade
- Miss. P. G. Soude
- Miss. P. P. Shedbal
- Miss. G. B. Chandake



*P. Jaganure*  
PRINCIPAL  
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G. I. Bagewadi College, Nipani.  
*P. Jaganure*



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**DEPARTMENT OF CHEMISTRY**  
**CERTIFICATE COURSE TIME TABLE 2016-2017**

DAY	THEORY ( 10am – 11pm)	PRACTICAL ( 12pm – 4pm)
08/01/2017	ASJ	PTN
15/01/2017	SBS	PGS
22/01/2017	PPS	GBC
29/01/2017	GBK	PPS
05/02/2017	PTN	GBK
12/02/2017	PGS	PTN
19/02/2017	ASJ	PGS
26/02/2017	SBS	GBK
05/03/2017	PPS	SBS
12/03/2017	PTN	ASJ
19/03/2017	Theory test paper	
26/03/2017	Practical test paper	

  
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Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
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**IQAC- Initiative**

## Department of chemistry

### Certificate course - Water Analysis

#### Marks Statement -2016-17

Roll. NO.	NAME OF THE CANDIDATES	Marks Obtained [20]	Roll NO	NAME OF THE CANDIDATES	Marks Obtained [20]	Roll NO.	NAME OF THE CANDIDATES	Marks Obtained [20]
1	ABHIJIT SANKANAVAR	18	18	DHARMASHREE SOMANKHOT	13	35	PRADNYA GOURAI	14
2	AKSHATA NAVANALE	20	19	GANAPA SHENDRE	16	36	PRASHANT HEGANNA	18
3	AKSHAY KHAVARE	15	20	GAYATRI KAMBLE	14	37	PRATIBHA OTARI	19
4	AKSHAY KAMATE	14	21	HIRACHAND DONAGE	10	38	PRIYA KANKANWADI	17
5	AMOL NIKAM	16	22	KHUSHBOO NAIK	15	39	PRIYA PANCHAXARI	16
6	ANJUM MUJAWAR	17	23	ABHIJEET KONE	14	40	PRIYANKA DAVANE	10
7	ARADHINI KAGE	19	24	KRUTIKA LAKKANAVAR	17	41	PRIYANKA HAVALDAR	09
8	ASHWINI JADHAV	13	25	VISHAL KUMBHAR	18	42	PRIYANKA CHOUGULE	16
9	ASHWINI KHOT	12	26	LAXMI PATIL	19	43	PRIYANKA PATIL	13
10	PADMASHRI BHOJKAR	15	27	MAHESH KOOT	12	44	RANJEET HALAPPANAVAR	13
11	CHAITALI BABAR	16	28	NAKUSHA KHOT	13	45	ROHAN DABHADE	20
12	CHAYA GADAKARI	16	29	NAMRATA CHOUGULE	16	46	SABREEN TAHSILDAR	20
13	DAYANAND KUMBAR	18	30	NIKITA JADHAV	18	47	SANGEETA BHADAKAR	20
14	DEEPALI NAVI	17	31	PALLAVI SHANDAGE	15	48	SANTOSH INGALE	16
15	RANJEET DESAI	16	32	GUNADHAR PATIL	17	49	SARASWATI SHEBANAVAR	15
16	SHRUTIKA DESAI	15	33	PAYAL KSHIRSAGAR	15	50	SAVITA KAMBLE	14
17	DHANASHREE NAVANALE	13	34	POOJA PATIL	19	51	SAYALI KULKARNI	19



  
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52	ARCHANA SHINTRE	18	69	AVADHUT CHINCHANE	12	72	SANIYA JAMADAR	15
53	SHITAL TANGADE	17	70	CHINMAY KULKARNI	13	73	SUHASINI KADAM	16
54	SHRUTIKA PATIL	19	71	FARHEEN JAMADAR	14	74	KIRTI PATIL	18
55	SHUBHAM RODD	13	72	SANIYA JAMADAR	15	75	TEJASWINI KONDEKAR	17
56	SHUBHAM DEVAMURE	12	73	SUHASINI KADAM	16	76	KOMAL MAHAJAN	19
57	SOORAJ PATIL	12	74	KIRTI PATIL	18	77	NISHA MAGADUM	20
58	SUJATA GHATAGE	15	75	TEJASWINI KONDEKAR	17	78	RUTUJA PATIL	20
59	SUNIL JANGATE	20	76	KOMAL MAHAJAN	19	79	SHWETA PATIL	20
60	SURAJ KUMBAR	15	77	NISHA MAGADUM	20	80	POOJA LUKK	15
61	SWATI PATIL	14	78	RUTUJA PATIL	20	81	PRAVIN BATTE	16
62	UMARFAROOK JAMADAR	12	79	SHWETA PATIL	20	82	PRIYANKA SHINDE	17
63	VARDHAMAN PATIL	15	80	POOJA LUKK	15	83	PRIYANKA KAMATE	18
64	VIRESH SHIRAGAVI	14	81	PRAVIN BATTE	16	84	RANJIT PUNDE	20
65	VISHAL JABADE	16	82	PRIYANKA SHINDE	17	85	ROHINI PATIL	19
66	ABHISHEK SULTANNAVAR	17	69	AVADHUT CHINCHANE	12	86	SACHIN KULKARNI	16
67	VISHAL AWATI	18	70	CHINMAY KULKARNI	13	87	SAGAR SANGANE	16
68	BALKRISHNA PATIL	19	71	FARHEEN JAMADAR	14	88	SANMATI MEKKALIKE	16



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89	NIKITA SAVANT	12	93	SUJATA MAGADUM	20	97	SWATI SANKPAL	16
90	SHEETAL SHIROLE	20	94	SUJATA KUMBAR	20	98	VIVEK CHAVAN	12
91	SHEKHAR JOLE	20	95	SURAJ PATIL	20	99	PREETI YADAV	20
92	SHIVANAND SHENDRE	20	96	SURAJ PATIL	10	100	DEEPIKA HULIKOPPE	16
						101	SUJATA KUMBAR	18

  
Convener

  
HOD  
Head  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.



  
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K.L.E. Society's,  
G.I. Bagewadi Arts, Science and Commerce and PG College  
Nipani-591237  
(Affiliated to Rani Channamma University, Belgavi)



Department of Chemistry

2016-17

## CERTIFICATE

This is to certify by ~~Mr/~~ Miss. Nikita Shrikant Jadhav.....  
B.Sc. VI Sem Student has satisfactorily completed the project in Chemistry  
prescribed by the Rani Channamma University, Belagavi for B.Sc. VI Semester  
of this college in the year 2016-17.

  
Staff Incharge

Examiner

  
Head of Department



  
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Certificate Course in Chemistry

Project Report on

WATER ANALYSIS

Submitted by:

Me / Miss. . . Nikita . . . shrikant . . . Jadhav . . .

of B.Sc. VI Sem. Student

To,

THE DEPARTMENT OF CHEMISTRY

  
Signature  
Of Student

  
Signature of  
Staff Incharge

  
HOD  
Chemistry  
22/11/22



## ACKNOWLEDGEMENT

We the B.Sc. VI Semester student of chemistry, wish to thank our teacher Prof. A.S. Jagnure, Head of the department of chemistry, Prof. G.D. Kumbhar, Prof S.B.Solbannavar, Prof C.N. Naikar , Prof. Prashant Narwade and Prof. Priyanka Soudi who has encouraged and worked with us in completing this project.

Our teachers of chemistry Department were well co-operative and gave us more relevant information about "WATER ANALYSIS". And special thanks to Prof. Shirgave coordinator of Department of Agrochemicals and Pest Management, Devchand college Arjun Nagar, who guided us to know more about the analysis and to conduct the practical. Lastly it was a very unforgettable and highly memorable study tour to all of us.

## DECLARATION

Mr./Miss. Nikita Shrikant Jadhav of B.Sc. VI Semester Studying in K.L.E's " G.L. Bagewadi College, Nipani. Hereby declare that this project is genuine and original work of study prepared by me. It is based on the data and information collected by me. To the best of my knowledge and belief, the matter presented in this report has not been copied from any report submitted to Rani Chanamma University, Belagavi, to Complete B.Sc.

I Hope this report will serve the purpose.

Place: Nipani

Signature

Date: 15/04/2017

(Nikita Jadhav)

Name: Nikita S. Jadhav



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## Introduction:

Water is elixir of life. Every living organism needs water. Without water organisms cannot survive. Chemically water is made up of two moles of Hydrogen and One Mole of Oxygen. And purified water is very important for healthy life. So we need pure water. Pure water has not colour and no test.

- a) Above  $100^{\circ}\text{C}$  it occurs in the form of water vapour or steam.
- b) Below  $0^{\circ}\text{C}$  it forms ice
- c) Between  $0-100^{\circ}\text{C}$  it occurs in the form of liquid.

According to Kabisch and Hanjmerling (1982), our planet Earth contains 537.6 million sq. kms of water. Of which, only about 5.376 million sq. kms (approx) is available for human use.

Of the natural elements, water is considered to be of prime importance to the existence of man, plants and animals. It also plays an essential role in agriculture, industries, pisciculture, forestry and navigation.

Eutrophication of water, which in simplest terms, is pollution of water or increase in nutrients, results in the degradation of its quality accompanied luxuriant growth of algae or macrophytes. This is recognized as a major problem all around the globe. Weber (1907- in Zutshi, 1981) first introduced the concept of eutrophication to describe the nutrient contents determining the flora of German peat bogs. Nauman (1907) in Zutshi, 1981) used the term oligotrophic, mesotrophic and eutrophic, according to the concentration of phosphorus, nitrogen and calcium along with the associated density of phytoplankton population.

The need of water is increasing day by day invariably due to increasing population urbanization etc. Simultaneously the quality of standing water is degrading which affects the flora particularly the plankton. A glance at an earlier study reveals that plankton grow in water of particular trophic levels. Hence some

of these planktons may act as indicators of pollution. Some plankton is capable of tolerating pollution load.

The problem of pollution of water resources due to the discharge of wastes of domestic and industrial origin is a great threat on the international scale. Added to this is the surface run off from the heavily fertilized agricultural fields, which after reaching the water body cause pollution. Thus the reliable and economical methods to assess water pollution are needed. Any impairment caused by pollution has its effect on the aquatic biota. Therefore, a continuous monitoring of the aquatic biota reflects the conditions existing in the aquatic environment and the data can be utilized for the biological monitoring of water pollution.

The problem of water pollution in India is very critical as India is a developing country among the developing and developed countries. Though a lot of work has been done on the Indian waters, the extensive studies are few. The pioneer workers in the study of the Indian waters are Ganapati (1940), Singh (1960), Sreenivasan (1972) and Zafar (1964, 1967).

In India the total water available for use is about 1900 cubic meters. Of this, about 86% is in the form of rivers, streams, lakes and ponds (Kiran, 1992). Karnataka is one of the agriculturally and industrially leading states in India. Industrial effluents, treated or untreated, are dumped into the natural water bodies causing irreparable damage to the aquatic biota. Karnataka state is known for its large number of water bodies like small

## *Composition of water*

Everyone is very familiar with water. We observe it as rain and snow and can see it in the oceans, lakes, rivers, and streams. Although the water in our bodies is not as apparent, recognize that most of our weight is made up of water. In fact, the normal adult is made up of approximately 60% water. Thus, water is essential for life.

Water is made up of hydrogen ions ( $H^+$ ) linked to hydroxyl ions ( $OH$ ) to form  $H_2O$ . The molecular formula for water is  $H_2O$ . From this formula and the atomic weights for hydrogen and oxygen you can calculate that the molecular weight of water is approximately 18 grams.

*Note: The atomic weight of hydrogen (H) is 1 gram and the atomic weight of oxygen (O) is 16 grams.*

18 grams of water can also be referred to as being 1 mole of water. A mole of a substance (e.g. water), contains a particular number of molecules. That number is  $6.02 \times 10^{23}$  and is often referred to as Avogadro's number: named after Amedeo Avogadro, an Italian physicist.

Recognize that  $6.02 \times 10^{23}$  is in scientific notation and represents a huge number: 602 billion trillion. Written in standard form, this number is: 602,000,000,000,000,000,000,000. Thus, a mole of water which weighs 18 grams contains a huge number of water molecules.

18 grams or 1 mole of water occupies a volume of 18 milliliters. Therefore, 1000 milliliters (1 liter) of water contains 55.6 moles of water (1000 milliliters / 18 milliliters per mole)

Water molecules exist in the form of  $H_2O$ ; hydrogen ions ( $H^+$ ) linked to hydroxyl ions ( $OH$ ). A few of these water molecules split apart to create free  $H^+$  and  $OH^-$  ions. Pure, deionized water contains the same number of  $H^+$  ions and  $OH^-$  ions. One liter of pure, deionized water contains  $1 \times 10^{-7}$  moles of  $H^+$  and  $1 \times 10^{-7}$  moles of  $OH^-$  ions. This is

still a very large number of free hydrogen ions, namely:  $6.02 \times 10^{16}$  or 60,200,000,000,000,000.

---

### **Natural sources of water pollution**

Natural processes and animals cause the following:

- **Organic Matter/Low D.O:** There are a lot of cypress swamps, float marshes, salt marsh wetlands, and animals, in the Barataria and Terrebonne Watersheds. The trees and marsh plants naturally produce a lot of organic matter from their leaves, stems, and roots. When these plant parts fall off or get washed into a waterbody by storm water they can lower dissolved oxygen.
- **Nutrients:** These are substances required by plants and animals to grow. The nutrients that have a large impact on the natural balance of waterways are nitrogen and phosphorus. These nutrients cause plankton to grow excessively. Plankton also die excessively and this puts a large amount of organic matter into the water which results in lower dissolved oxygen. Under natural situations nutrients are recycled from plant to animal, plankton to fish. Animals that live in water in large numbers, like ducks and geese, put manure directly into the water causing pollution.
- **Sediment:** In a natural condition, sediment in the water is usually related to large storm events, like hurricanes. Sometimes it is hard to tell whether the sediment is natural or from humans unless you look at aerial photographs and land use patterns.
- **Disease-Causing Organisms:** Animals that live on water in large numbers, such as ducks and geese, and put manure directly into the water cause pollution that can contaminate the water with disease-causing organisms.



## Industrial waste

*Industries cause huge water pollution with their activities. These come mainly from:*

*Sulphur - This is a non-metallic substance that is harmful to marine life.*



*Asbestos* - This pollutant has cancer-causing properties. When inhaled, it can cause illnesses such as asbestosis and some types of cancer.

*Lead and Mercury* - These are metallic elements and can cause environmental and health problems for humans and animals. It is also poisonous. It is usually very hard to clean it up from the environment once it gets into it because it is non-biodegradable.

*Nitrates & Phosphates* - These are found in fertilizers, and are often washed from the soils to nearby water bodies. They can cause environment, which can be very problematic to marine environments.

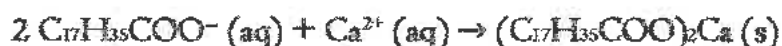
*Oils* - Oils form a thick layer on the water surface because they do not dissolve in water. This can stop marine plants receiving enough light for photosynthesis. It is also harmful to fish and marine birds. A classic example is the BP oil spill in 2012 with killed thousands of animal species. Read more on this [HERE](#)

### Oil Pollution by Oil Industries

Routine shipping, run-offs and dumping of oils on the ocean surfaces happen every day. Oil spills make up about 12% of the oil that enters the ocean. Oil spills cause major problems, and can be extremely harmful to local marine wildlife such as fish, birds and sea otters and other aquatic life. Because oil does not dissolve, it stays on the water surface and suffocates fish. Oil also gets caught in the feathers of seabirds, making it difficult for them to fly. Some animals die as a result.

## Effects of Hard Water:

With hard water, soap solutions form a white precipitate (soap scum) instead of producing lather, because the  $2^+$  ions destroy the surfactant properties of the soap by forming a solid precipitate (the soap scum). A major component of such scum is calcium stearate, which arises from sodium stearate, the main component of soap:



Hardness can thus be defined as the soap-consuming capacity of a water sample, or the capacity of precipitation of soap as a characteristic property of water that prevents the lathering of soap. Synthetic detergents do not form such scums.



A portion of the ancient Roman Eifel aqueduct in Germany. In service for about 180 years, the aqueduct had deposits of scale up to 20 cm thick along the walls.

Hard water also forms deposits that clog plumbing. These deposits, called "scale", are composed mainly of calcium carbonate ( $\text{CaCO}_3$ ), magnesium hydroxide ( $\text{Mg}(\text{OH})_2$ ), and calcium sulfate ( $\text{CaSO}_4$ ). Calcium and magnesium carbonates tend to be deposited as off-white solids on the inside surfaces of pipes and heat exchangers. This precipitation (formation of an insoluble solid) is principally caused by thermal decomposition of bicarbonate ions but also happens in cases where the carbonate ion is at saturation concentration. The resulting build-up of scale restricts the flow of water in pipes. In boilers, the deposits impair the flow of heat into water, reducing the heating efficiency and allowing the metal boiler components to overheat. In a pressurized system, this overheating can lead to failure of the boiler. The damage caused by calcium carbonate deposits varies on the crystalline form, for example, calcite or aragonite.

The presence of ions in an electrolyte, in this case, hard water, can also lead to galvanic corrosion, in which one metal will preferentially corrode when in contact with another type of metal, when both are in contact with an electrolyte. The softening of hard water by ion exchange does not increase its corrosivity *per se*. Similarly, where lead plumbing is in use, softened water does not substantially increase plumbo-solvency.

In swimming pools, hard water is manifested by a turbid, or cloudy (milky), appearance to the water. Calcium and magnesium hydroxides are both soluble in water. The solubility of the hydroxides of the alkaline-earth metals to which calcium and magnesium belong (group 2 of the periodic table) increases moving down the column. Aqueous solutions of these metal hydroxides absorb carbon dioxide from the air, forming the insoluble carbonates, giving rise to the turbidity. This often results from the pH being excessively high ( $\text{pH} > 7.6$ ). Hence, a common solution to the problem is, while maintaining the chlorine concentration at the proper level, to lower the pH by the addition of hydrochloric acid, the optimum value being in the range of 7.2 to 7.6.

### Softening

It is often desirable to soften hard water. Most detergents contain ingredients that counteract the effects of hard water on the surfactants. For this reason, water softening is often unnecessary. Where softening is practised, it is often recommended to soften only the water sent to domestic hot water systems so as to prevent or delay inefficiencies and damage due to scale formation in water heaters. A common method for water softening involves the use of ion exchange resins, which replace ions like  $\text{Ca}^{2+}$  by twice the number of monocations such as sodium or potassium ions.



Washing soda (sodium carbonate -  $\text{Na}_2\text{CO}_3$ ) is easily obtained and has long been used as a water softener for domestic laundry, in conjunction with the usual soap or detergent.

**Hard water...** is water that contains an appreciable quantity of dissolved minerals (like calcium and magnesium).

**Soft water...** is treated water in which the only ion is sodium.

As rainwater falls, it is naturally soft. However, as water makes its way through the ground and into our waterways, it picks up minerals like chalk, lime and mostly calcium and magnesium. Since hard water contains essential minerals, it is sometimes the preferred drinking water. Not only because of the health benefits, but also the flavor. On the other hand, soft water tastes salty and is sometimes not suitable for drinking. So why, then, do we soften our water?

When it boils down, the major difference between hard and soft water can best be seen while doing household chores. Hard water is to blame for dingy looking clothes, dishes with spots and residue, and bathtubs with lots of film and soap scum. Even hair washed in hard water may feel sticky and look dull. Hard water can take a toll on household appliances as well and use up more energy. The elements of hard water are to blame for all of these negative factors, as soap is less effective due to its reaction to the magnesium and calcium. The lather is not as rich and bubbly.

Chore-doers will love using soft water, as tasks can actually be performed more efficiently with it. Soap will lather better and items will be left cleaner. Glasses will sparkle and hair will look healthy. The shower curtain will be scum-free. Clothes and skin are left softer. In addition to time, this can also save money, as less soap and detergents will be used. Since appliances have to work less hard, soft water can also prolong the life of washing machines, dishwashers and water heaters. Energy bills are noticeably lower when in households with water softeners. In a time of rising energy costs, this is something to think about.

## Measurement

Hardness can be quantified by instrumental analysis. The total water hardness is the sum of the molar concentrations of  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$ , in mol/L or mmol/L units. Although water hardness usually measures only the total concentrations of calcium and magnesium (the two most prevalent divalent metal ions), iron, aluminium, and manganese can also be present at elevated levels in some locations. The presence of iron characteristically confers a brownish (rust-like) colour to the calcification, instead of white (the color of most of the other compounds).

Water hardness is often not expressed as a molar concentration, but rather in various units, such as degrees of general hardness (dGH), German degrees ( $^{\circ}\text{dH}$ ), parts per million (ppm, mg/L, or American degrees), grains per gallon (gpg), English degrees ( $^{\circ}\text{e}$ , e, or  $^{\circ}\text{Clark}$ ), or

French degrees ( $^{\circ}\text{fH}$ ,  $^{\circ}\text{F}$  or  $^{\circ}\text{F}$ ; lowercase *f* is used to prevent confusion with degrees Fahrenheit). The table below shows conversion factors between the various units.

Hardness unit conversion.						
	mmol/L	ppm, mg/L	dGH, $^{\circ}\text{dH}$	gpg	$^{\circ}\text{e}$ , $^{\circ}\text{Clark}$	$^{\circ}\text{fH}$
mmol/L	1	0.009991	0.1783	0.171	0.1424	0.09991
ppm, mg/L	100.1	1	17.85	17.12	14.25	10
dGH, $^{\circ}\text{dH}$	5.608	0.05603	1	0.9591	0.7986	0.5603
gpg	5.847	0.05842	1.043	1	0.8327	0.5842
$^{\circ}\text{e}$ , $^{\circ}\text{Clark}$	7.022	0.07016	1.252	1.201	1	0.7016
$^{\circ}\text{fH}$	10.01	0.1	1.785	1.712	1.425	1

Example 1: 1 mmol/L = 100.1 ppm; Example 2: 1 ppm = 0.056 dGH.

The various alternative units represent an equivalent mass of calcium oxide (CaO) or calcium carbonate (CaCO<sub>3</sub>) that, when dissolved in a unit volume of pure water, would result in the same total molar concentration of Mg<sup>2+</sup> and Ca<sup>2+</sup>. The different conversion factors arise from the fact that equivalent masses of calcium oxide and calcium carbonates differ, and that different mass and volume units are used. The units are as follows:

- *Parts per million (ppm)* is usually defined as 1 mg/L CaCO<sub>3</sub> (the definition used below). It is equivalent to mg/L without chemical compound specified, and to **American degree**.
- *Grains per Gallon (gpg)* is defined as 1 grain (64.8 mg) of calcium carbonate per U.S. gallon (3.79 litres), or 17.118 ppm.
- a *mmol/L* is equivalent to 100.09 mg/L CaCO<sub>3</sub> or 40.08 mg/L Ca<sup>2+</sup>.
- A *degree of General Hardness (dGH or 'German degree ( $^{\circ}\text{dH}$ , *deutsche Härte*))'* is defined as 10 mg/L CaO or 17.848 ppm.
- A *Clark degree ( $^{\circ}\text{Clark}$ )* or *English degrees ( $^{\circ}\text{e}$  or *e*)* is defined as one grain (64.8 mg) of CaCO<sub>3</sub> per Imperial gallon (4.55 litres) of water, equivalent to 14.254 ppm.
- A *French degree ( $^{\circ}\text{fH}$  or  $^{\circ}\text{f}$ )* is defined as 10 mg/L CaCO<sub>3</sub>, equivalent to 10 ppm.



### Hard/soft classification

Because it is the precise mixture of minerals dissolved in the water, together with the water's pH and temperature, that determine the behavior of the hardness, a single-number scale does not adequately describe hardness. However, the United States Geological Survey uses the following classification into hard and soft water,

Classification	hardness in mg/L	hardness in mmol/L	hardness in dGH/°dH	hardness in gpg	hardness in ppm
Soft	0–60	0–0.60	0–3.37	0–3.50	less than 60
Moderately hard	61–120	0.61–1.20	3.38–6.74	3.56–7.01	60–120
Hard	121–180	1.21–1.80	6.75–10.11	7.06–10.51	120–180
Very hard	≥ 181	≥ 1.81	≥ 10.12	≥ 10.57	> 181

Seawater is considered to be very hard due to various dissolved salts. Typically seawater's hardness is in the range of 6630 ppm. In contrast, freshwater has hardness in the range of 15 - 375 ppm.

# WATER AND SOIL ANALYSIS KIT



## WATER ANALYSIS

### Standards used in water analysis

#### conductivity

Electrical conductivity in water is a measure of the ion-facilitated electron flow through it. Water molecules dissociate into ions as a function of pH and temperature and result in a very predictable conductivity. Some gases, most notably carbon dioxide, readily dissolve in water and interact to form ions, which predictably affect conductivity as well as pH. For the purpose of this discussion, these ions and their resulting conductivity can be considered intrinsic to the water.

Water conductivity is also affected by the presence of extraneous ions. The extraneous ions used in modeling the conductivity specifications described below are the chloride and sodium ions. The conductivity of the ubiquitous chloride ion (at the theoretical endpoint concentration of 0.47 ppm when it was a required attribute test in USP XXII and earlier revisions) and the ammonium ion (at the limit of 0.3 ppm) represent a major portion of the allowed water impurity level. A balancing quantity of cations, such as sodium ions, is included in this allowed impurity level to maintain electroneutrality. Extraneous ions such as these may have significant impact on the water's chemical purity and suitability for use in pharmaceutical applications. The procedure described in the section Bulk Water is designed for measuring the conductivity of waters such as Purified Water, Water for Injection, Water for Hemodialysis, and the condensate of Pure Steam produced in bulk. For water packaged in bulk but manufactured elsewhere or for Sterile Purified Water, Sterile Water for Injection, Sterile Water for Inhalation, and Sterile Water for Irrigation, some additional conductivity tests may be required. Such tests are described in the section Packaged Water

## Procedure

### STAGE I

Stage I is intended for online measurement or may be performed offline in a suitable container.

1. Determine the temperature of the water and the conductivity of the water using a nontemperature-compensated conductivity reading.
2. Using the Stage I—Temperature and Conductivity Requirements table, find the temperature value that is not greater than the measured temperature, i.e., the next lower temperature. The corresponding conductivity value on this table is the limit. [NOTE—Do not interpolate.]
3. If the measured conductivity is not greater than the table value, the water meets the requirements of the test for conductivity. If the conductivity is higher than the table value, proceed with Stage 2.

#### Stage I—Temperature and Conductivity Requirements

(for no temperature-compensated conductivity measurements only)

TEMPERATURE	CONDUCTIVITY REQUIREMENTS (
0	0.6
5	0.8
10	0.9
15	1.0
20	1.1
25	1.3
30	1.4
35	1.5
40	1.7
45	1.8
50	1.9
55	2.1
60	2.2

## STAGE 2

4. Transfer a sufficient amount of water (100 mL or more) to a suitable container, and stir the test specimen. Adjust the temperature, if necessary, and, while maintaining it at  $25 \pm 1^\circ$ , begin vigorously agitating the test specimen while periodically observing the conductivity. When the change in conductivity (due to uptake of atmospheric carbon dioxide) is less than a net of 0.1  $\mu\text{S}/\text{cm}$  per 5 minutes, note the conductivity.

5. If the conductivity is not greater than 2.1  $\mu\text{S}/\text{cm}$ , the water meets the requirements of the test for conductivity. If the conductivity is greater than 2.1  $\mu\text{S}/\text{cm}$ , proceed with Stage 3.

## STAGE 3

6. Perform this test within approximately 5 minutes of the conductivity determination in Step 5, while maintaining the sample temperature at  $25 \pm 1^\circ$ . Add a saturated potassium chloride solution to the same water sample (0.3 mL per 100 mL of the test specimen), and determine the pH to the nearest 0.1 pH unit, as directed under pH (791).

7. Referring to the Stage 3—pH and Conductivity Requirements table, determine the conductivity limit at the measured pH value. If the measured conductivity in Step 4 is not greater than the conductivity requirements for the pH determined in Step 6. The water meets the requirements of the test for conductivity. If either the measured conductivity is greater than this value or the pH is outside the range of 5.0 to 7.0, the water does not meet the requirements of the test for conductivity.

### Stage 3—pH and Conductivity Requirements

#### pH

pH is a measure of the hydrogen ion concentration of the water as ranked on a scale of 1.0 to 14.0. The lower the pH of water, the more acidic it is. The higher the pH of water, the more basic, or alkaline, it is. pH affects many chemical and biological processes in the water



and different organisms have different ranges of pH within which they flourish. The largest variety of aquatic animals prefer a pH range of 6.5 - 8.0. pH outside of this range reduces the diversity in the stream because it stresses the physiological systems of most organisms and can reduce reproduction.

### pH Measurement

#### Equipment Required:

- pH-Meter
- Buffers (4.01 and 7.00)
- Deionized or distilled water
- 150ml Glass Beaker
- Magnetic Stirrer

After calibrating your meter with the buffers, rinse the electrode(s) and glassware with distilled or deionized water. Carefully measure 100 ml of your sample and place in a 150 ml beaker for the pH and alkalinity part. Place the rinsed electrode in the test sample. We strongly encourage letting all samples come to room temperature in the tightly capped bottle before analyzing. If you are conducting other analyses with the sample water, keep in mind that pH should be analyzed within 5 minutes of uncapping the sample bottle. The sample should be stirred very gently, preferably with a magnetic stirrer. It may take up to 3 minutes for the reading to become stable. When stable, but not in excess of 5 minutes, record the sample pH to the nearest 0.01 pH unit.

pH	Conductivity Requirement
5.0	4.7
5.1	4.1
5.2	3.6
5.3	3.3
5.4	3.0
5.5	2.8
5.6	2.6
5.7	2.5
5.8	2.4
5.9	2.4
6.0	2.4
6.1	2.4
6.2	2.5
6.3	2.4
6.4	2.3
6.5	2.2
6.6	2.1
6.7	2.6
6.8	3.1
6.9	3.8
7.0	4.6

## Alkalinity

Alkalinity is a measure of a river's "buffering capacity," or its ability to neutralize acids. Alkaline compounds in the water such as bicarbonates (baking soda is one type), carbonates, and hydroxides remove  $H^+$  ions and lower the acidity of the water (which means increased pH). They do this usually by combining with the  $H^+$  ions to make new compounds. Without this acid neutralizing capacity, any acid added to a river would cause an immediate change in the pH. Measuring alkalinity is important to determining a river's ability to neutralize acidic pollution (as measured by pH) from rainfall or snowmelt. It's one of the best measures of the sensitivity of the river to acid input

### Alkalinity Measurement

Equipment required:

- ✓ pH-Meter
- ✓ Refillable Electrode
- ✓ Buffers (4.01 and 7.00)
- ✓ Deionized or distilled water
- ✓ 150ml Glass Beaker
- ✓ Magnetic Stirrer
- ✓ Stir Bar
- ✓ 100ml Graduated Cylinder
- ✓ Digital Titrator
- ✓ 0.16N Sulfuric Acid Cartridge

After placing the sulfuric acid cartridge in position in the Hach Digital Titrator, be sure to advance the plunger manually until titrant is forced out of the delivery tip. Do this as you would a hypodermic syringe, with the delivery tip up to remove bubbles. Get all the bubbles out! Then advance the plunger using the delivery knob on the end of the titrator until you are sure that the delivery tip is filled with solution. Check for leaks where the tip connects to the cartridge. Rinse the tip WELL with distilled water or sample: this is important because the titrant is concentrated and a little bit goes a long way. Reset the counter to zero and you are ready to titrate.

After completing a titration and recording the digits of titrant used, rinse the delivery tip with distilled water or the next sample, reset the counter (THIS IS EASILY FORGOTTEN WHEN BUSY), and you are immediately ready for the next sample.

Titrations go better if the delivery tip is positioned under the surface of the solution being titrated. For one or two samples, the titrator can be held in the hand, however, it is easier to mount the titrator on a ring stand using a clamp. Try to keep the titrator vertical through all titrations; putting the titrator horizontally on the bench between titrations may introduce bubbles in the tip.

The acid cartridges provided are 0.16N sulfuric acid. Our waters are typically quite low in alkalinity, so we use a special double end-point alkalinity procedure to accurately measure alkalinity below 20 mg L<sup>-1</sup>. After reading and recording the pH as described above, titrate with the digital titrator and sulfuric acid cartridge to pH 4.5; record titrant used to this point as A. Continue the titration to pH 4.2. Record the titrant used to this point as B. If the initial pH is less than 4.5, record the initial pH value. Titrate until the pH is 0.3 units below the starting point. Enter the digits of titrant used as B; A = 0. Write down the pH reading where you stopped (as an accuracy check). We will use computers to calculate the alkalinity, but you may do your own calculations using the formulas below. The examples will help to clarify what can be somewhat confusing formulas.

A = digits used to pH 4.5

B = digits used to pH 4.2 or 0.3 pH units below initial value (total titrant including A)

Double end-point alkalinity =  $(2A - B) \times 0.1$

**EXAMPLE:** A sample required 120 digits to reach pH 4.5. An additional 15 digits were required to reach pH 4.2. for a total of 135 digits. Therefore. A = 120 and B = 135.

Double end-point alkalinity =  $(240 - 135) \times 0.1 = 10.5 \text{ mg/l}$

**EXAMPLE:** A sample had an initial pH of 4.3. The sample required 22 digits to lower the pH to 4.0. Therefore. A = 0; B = 22. Double end-point alkalinity =  $(0 - 22) \times 0.1 = -2.2 \text{ mg/l}$

Although the negative alkalinity value may seem not to make much sense, it is an extremely important measurement for assessment of acidification

## Measuring Dissolved Oxygen by the Sensor Method



The most popular method for dissolved oxygen measurements is with a dissolved oxygen meter and sensor. While the general categories of dissolved oxygen sensors are optical and electrochemical, electrochemical sensors can be further broken down into polarographic, pulsed polarographic and galvanic sensors. In addition to the standard analog output, several of these dissolved oxygen sensor technologies are available in a smart sensor platforms with a digital output. Measuring dissolved oxygen with a sensor and meter (photo credit: Fondriest Environmental; Flickr).

A dissolved oxygen sensor can be used in the lab or in the field. DO sensors can be designed for biochemical oxygen demand (BOD) tests, spot sampling or long-term monitoring applications. A dissolved oxygen meter, water quality sonde or data logging system can be used to record measurement data taken with a DO sensor.

As dissolved oxygen concentrations are affected by temperature, pressure and salinity, these parameters need to be accounted for<sup>7</sup>. These compensations can be done manually or automatically with a dissolved oxygen meter or data logging software. Temperature is generally measured by a thermistor within the sensor and is acquired by the meter or data logger without prompting. Many DO meters include an internal barometer, and data logging systems can be set up with an external barometer or water level sensor for pressure measurements. Barometric pressure can also be manually input as altitude, true barometric pressure or corrected barometric pressure. Salinity can be measured with a conductivity/salinity sensor and automatically compensated for, or approximated and manually input as<sup>7</sup>:

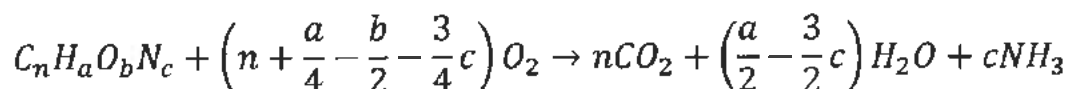
Fresh water	< 0.5 ‰ (PPT or parts per thousand)
Brackish water	0.5-30 ‰
Seawater	33-37 ‰
Saline water	30-50 ‰
Brine	> 50 ‰

Calibration and operating procedures can vary between models and manufacturers. An instruction manual should be referenced during the measurement and calibration processes.



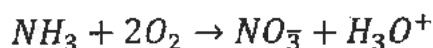
## Chemical oxygen Demand

The basis for the COD test is that nearly all organic compounds can be fully oxidized to carbon dioxide with a strong oxidizing agent under acidic conditions. The amount of oxygen required to oxidize an organic compound to carbon dioxide, ammonia, and



Water is given by

This expression includes the oxygen demand caused by the oxidation of ammonia into nitrate. The process of ammonia being converted into nitrate is referred to as *nitrification*. The following is the correct equation for the oxidation of ammonia into nitrate.

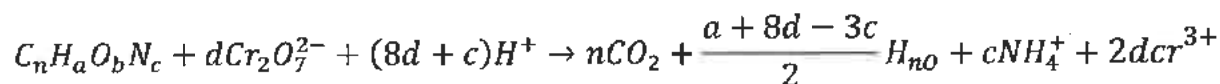


It is applied after the oxidation due to nitrification if the oxygen demand from nitrification must be known. Dichromate does not oxidize ammonia into nitrate, so this nitrification can be safely ignored in the standard chemical oxygen demand test.

The International Organization for Standardization describes a standard method for measuring chemical oxygen demand in ISO 6060

Potassium dichromate is a strong oxidizing agent under acidic conditions. (Acidity is usually achieved by the addition of sulfuric acid.) The reaction of potassium dichromate with organic compounds is given by:

where  $d = 2n/3 + a/6 - b/3 - c/2$ . Most commonly, a 0.25 N solution of potassium dichromate is used for COD determination, although for samples with COD below 50 mg/L, a lower concentration of potassium dichromate is preferred.



In the process of oxidizing the organic substances found in the water sample, potassium dichromate is reduced (since in all redox reactions, one reagent is oxidized and the other is reduced), forming Cr. The amount of  $Cr^{3+}$  is determined after oxidation is complete, and is used as an indirect measure of the organic contents of the water sample.

### Measurement:

For all organic matter to be completely oxidized, an excess amount of potassium dichromate (or any oxidizing agent) must be present. Once oxidation is complete, the

amount of excess potassium dichromate must be measured to ensure that the amount of  $\text{Cr}^{3+}$  can be determined with accuracy. To do so, the excess potassium dichromate is titrated with ferrous ammonium sulfate (FAS) until all of the excess oxidizing agent has been reduced to  $\text{Cr}^{3+}$ . Typically, the oxidation-reduction indicator Ferroin is added during this titration step as well. Once all the excess dichromate has been reduced, the Ferroin indicator changes from blue-green to a reddish-brown. The amount of ferrous ammonium sulfate added is equivalent to the amount of excess potassium dichromate added to the original sample. Note: Ferroin Indicator is bright red from commercially prepared sources but when added to a digested sample containing potassium dichromate it exhibits a green hue. During the titration the color of the indicator changes from a green hue to a bright blue hue to a reddish-brown upon reaching the endpoint. Ferroin indicator changes from red to pale blue when oxidized.

### Calculation

The following formula is used to calculate COD:

$$\text{COD} = \frac{8000(b - s)n}{\text{Sample volume}}$$

where  $b$  is the volume of FAS used in the blank sample,  $s$  is the volume of FAS in the original sample, and  $n$  is the normality of FAS. If milliliters are used consistently for volume measurements, the result of the COD calculation is given in mg/L.

The COD can also be estimated from the concentration of oxidizable compound in the sample, based on its stoichiometric reaction with oxygen to yield  $\text{CO}_2$  (assume all C goes to  $\text{CO}_2$ ),  $\text{H}_2\text{O}$  (assume all H goes to  $\text{H}_2\text{O}$ ), and  $\text{NH}_3$  (assume all N goes to  $\text{NH}_3$ ), using the following formula:

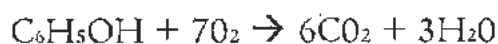
$$\text{COD} = (C/\text{FW})(\text{RMO})(32)$$

Where  $C$  = Concentration of oxidizable compound in the sample,

FW = Formula weight of the oxidizable compound in the sample,

RMO = Ratio of the # of moles of oxygen to # of moles of oxidizable compound in their reaction to  $\text{CO}_2$ , water, and ammonia

For example, if a sample has 500 wppm of phenol:



$$\text{COD} = (500/94)(7)(32) = 1191 \text{ wppm}$$

**Biochemical oxygen demand:**

Biochemical oxygen demand (BOD, also called biological oxygen demand) is the amount of dissolved oxygen needed (i.e., demanded) by aerobic biological organisms to break down organic material present in a given water sample at certain temperature over a specific time period. The BOD value is most commonly expressed in milligrams of oxygen consumed per litre of sample during 5 days of incubation at 20°C and is often used as a surrogate of the degree of organic pollution of water.

BOD can be used as a gauge of the effectiveness of wastewater treatment plants. It is listed as a conventional pollutant in the U.S. Clean Water Act.

BOD is similar in function to chemical oxygen demand (COD), in that both measure the amount of organic compounds in water. However, COD is less specific, since it measures everything that can be chemically oxidized, rather than just levels of biodegradable organic matter.

**Dilution method**

This standard method is recognized by U.S. EPA, which is labeled Method 5210B in the Standard Methods for the Examination of Water and Wastewater. In order to obtain BODs, dissolved oxygen (DO) concentrations in a sample must be measured before and after the incubation period, and appropriately adjusted by the sample corresponding dilution factor. This analysis is performed using 300 ml incubation bottles in which buffered dilution water is dosed with seed microorganisms and stored for 5 days in the dark room at 20 °C to prevent DO production via photosynthesis. In addition to the various dilutions of BOD samples, this procedure requires dilution water blanks, glucose glutamic acid (GGA) controls, and seed controls. The dilution water blank is used to confirm the quality of the dilution water that is used to dilute the other samples. This is necessary because impurities in the dilution water may cause significant alterations in the results. The GGA control is a standardized solution to determine the quality of the seed, where its recommended BODs concentration is  $198 \text{ mg/l} \pm 30.5 \text{ mg/l}$ . For measurement of carbonaceous BOD (cBOD), a nitrification inhibitor is added after the dilution water has been added to the sample. The inhibitor hinders the oxidation of ammonia nitrogen, which supplies the nitrogenous BOD (nBOD). When performing the BODs test, it is conventional practice to measure only cBOD because nitrogenous demand does not reflect the oxygen demand from organic matter. This is because nBOD is generated by the breakdown of proteins, whereas cBOD is produced by the breakdown of organic molecules.

BOD<sub>5</sub> is calculated by:

- Unseeded: 
$$\text{BOD}_5 = \frac{(D_0 - D_5)}{P}$$
- Seeded: 
$$\text{BOD}_5 = \frac{(D_0 - D_5) - (B_0 - B_5)f}{P}$$

where:

$D_0$  is the dissolved oxygen (DO) of the diluted solution after preparation (mg/l)

$D_5$  is the DO of the diluted solution after 5 day incubation (mg/l)

$P$  is the decimal dilution factor

$B_0$  is the DO of diluted seed sample after preparation (mg/l)

$B_5$  is the DO of diluted seed sample after 5 day incubation (mg/l)

$f$  is the ratio of seed volume in dilution solution to seed volume in BOD test on seed

### Total dissolved solids (TDS)

Total dissolved solids (TDS) is a measure of the combined content of all inorganic and organic substances contained in a liquid in molecular, ionized or micro-granular (colloidal sol) suspended form. Generally the operational definition is that the solids must be small enough to survive filtration through a filter with two-micrometer (nominal size, or smaller) pores. Total dissolved solids are normally discussed only for freshwater systems, as salinity includes some of the ions constituting the definition of TDS. The principal application of TDS is in the study of water quality for streams, rivers and lakes, although TDS is not generally considered a primary pollutant (e.g. it is not deemed to be associated with health effects) it is used as an indication of aesthetic characteristics of drinking water and as an aggregate indicator of the presence of a broad array of chemical contaminants.

The two principal methods of measuring total dissolved solids are gravimetric analysis and conductivity. Gravimetric methods are the most accurate and involve evaporating the liquid solvent and measuring the mass of residues left. This method is generally the best, although it is time-consuming. If inorganic salts comprise the great majority of TDS, gravimetric methods are appropriate.

Electrical conductivity of water is directly related to the concentration of dissolved ionized solids in the water. Ions from the dissolved solids in water create the ability for that water to conduct an electric current, which can be measured using a conventional conductivity meter or TDS meter. When correlated with laboratory TDS measurements, conductivity provides an approximate value for the TDS concentration, usually to within ten-percent accuracy.

The relationship of TDS and specific conductance of groundwater can be approximated by the following equation:

$$TDS = k \cdot EC$$

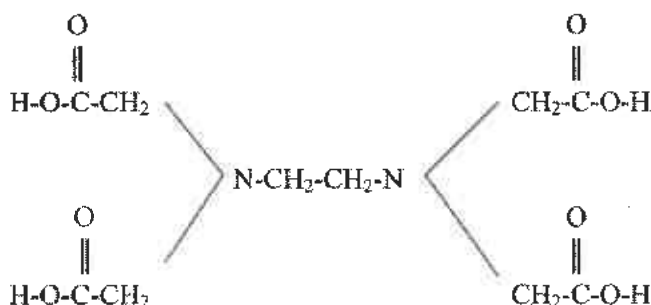
where TDS is expressed in mg/L and EC is the electrical conductivity in microsiemens per centimeter at 25 °C. The correlation factor  $k$  varies between 0.55 and 0.8.



### Calcium Analysis by EDTA Titration

One of the factors that establish the quality of a water supply is its degree of hardness. The hardness of water is defined in terms of its content of calcium and magnesium ions. Since an analysis does not distinguish between  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$ , and since most hardness is caused by carbonate deposits in the earth, hardness is usually reported as total parts per million calcium carbonate by weight. A water supply with a hardness of 100 parts per million would contain the equivalent of 100 grams of  $\text{CaCO}_3$  in 1 million grams of water or 0.1 gram in one liter of water. In the days when soap was more commonly used for washing clothes, and when people bathed in tubs instead of using showers, water hardness was more often directly observed than it is now, since  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  form insoluble salts with soaps and make a scum that sticks to clothes or to the bath tub. Detergents have the distinct advantage of being effective in hard water, and this is really what allowed them to displace soaps for laundry purposes. Calcium in water will be analyzed this week by EDTA titration and next week by atomic absorption analysis and the results compared.

Water hardness can be readily determined by titration with the chelating agent EDTA (ethylenediaminetetraacetic acid). This reagent is a weak acid that can lose four protons on complete neutralization; its structural formula is below.

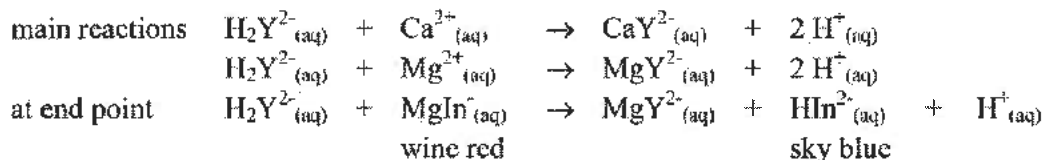


The four acid sites and the two nitrogen atoms all contain unshared electron pairs, so that a single EDTA ion can form a complex with up to six sites on a given cation. The complex is typically quite stable, and the conditions of its formation can ordinarily be controlled so that it contains EDTA and the metal ion in a 1:1 mole ratio. In a titration to establish the concentration of a metal ion, the EDTA that is added combines quantitatively with the cation to form the complex. The end point occurs when essentially all of the cation has reacted.

In this experiment you will standardize a solution of EDTA by titration against a standard solution made from calcium carbonate,  $\text{CaCO}_3$ . You will then use the EDTA solution to determine the hardness of an unknown water sample. Since both EDTA and  $\text{Ca}^{2+}$  are both colorless, it is necessary to use a rather special indicator to detect the end point of the titration. The indicator you will employ is called Eriochrome Black T, which forms a rather stable wine-red complex,  $\text{MgIn}^-$ ,

with the magnesium ion. A tiny amount of this complex will be present in the solution during the titration. As EDTA is added, it will complex free  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  ions leaving the  $\text{MgIn}^-$  complex alone until essentially all of the calcium and magnesium has been converted to chelates. At this point, the EDTA concentration will increase sufficiently to displace  $\text{Mg}^{2+}$  from the indicator complex; the indicator reverts to an acid form, which is sky blue, and this establishes the end point of the titration.

The titration is carried out at a pH of 10, in an  $\text{NH}_3\text{-NH}_4^+$  buffer, which keeps the EDTA ( $\text{H}_4\text{Y}$ ) mainly in the half-neutralized form,  $\text{H}_2\text{Y}^{2-}$ , where it complexes the Group IIA ions very well but does not tend to react as readily with other cations such as  $\text{Fe}^{3+}$  that might be present as impurities in the water. Taking  $\text{H}_4\text{Y}$  and  $\text{H}_3\text{In}$  as the formulas for EDTA and Eriochrome Black T respectively, the equations for the reactions that occur during the titration are as follows.



A little magnesium ion is already present in the solutions you will be using to form the initial red complex with the indicator.

This experiment requires that you recall the concepts of stoichiometry, molarity and dilutions. You may need to refresh your memory before you begin the prestudy and the experiment.

### EXPERIMENTAL PROCEDURE

Obtain a 50 mL buret, a 250 mL volumetric flask and 25 and 50 mL pipets.

Using weighing paper, accurately weigh 0.3120 g of  $\text{CaCO}_3$ . Transfer it quantitatively to a 250 mL beaker. (That is, make sure that every bit of the  $\text{CaCO}_3$  gets from the paper into the beaker.) Add 25 mL of distilled water to the beaker and then slowly, about 20 drops of 12 M HCl. (CAUTION: 12 M HCl will burn flesh and clothing.) If the solution is not clear add a few drops more of the HCl. Cover the beaker with a watch glass and allow the reaction to proceed until all of the solid carbonate has dissolved. Heat the solution until it just begins to boil. (Be sure not to be confused by the evolution of  $\text{CO}_2$  which occurs with the boiling.) Carefully transfer the solution, using a clean funnel, to the 250 mL volumetric flask. Rinse the beaker several times with small portions of distilled water and transfer each portion to the flask through the funnel. Rinse the funnel several times also. All of the  $\text{Ca}^{2+}$  originally in the beaker should now be in the volumetric flask; the solution is one of slightly acidic  $\text{CaCl}_2$ .

Fill the volumetric flask with distilled water, adding the last few mL a drop at a time with your wash bottle or an eye dropper. When the bottom of the meniscus is just even with the horizontal mark on the flask, stopper the flask and mix the solution thoroughly by inverting the flask at least a dozen times and shaking at intervals over a period of five minutes. **This solution will contain 499.7 ppm of calcium ion needed for use in next week's AA experiment.**

Clean your buret thoroughly. Draw about 300 mL of the stock EDTA solution from the carboy into a clean, dry beaker. Rinse the buret with 5 mL of the solution three times. Make sure the tip of the buret is full before continuing with the titration. Don't forget to check the tip for air bubbles.

Pipet 25 mL portions of your  $\text{Ca}^{2+}$  solution from the volumetric flask into two clean but not necessarily dry 250 mL Erlenmeyer flasks. To each flask add 5 mL of the pH 10 buffer and 2 drops of indicator. The initial color should be red and the endpoint color blue with no purple tint to it. **Reference solutions will be available for color comparison.** Be sure to read the buret to 0.01 mL. Refill the buret, read it, and titrate the second solution. Do a third titration if there is poor agreement between the first two. Use your best two values in your calculations.

Your instructor will furnish you with a sample of water for hardness analysis. Since the concentration of  $\text{Ca}^{2+}$  is probably lower than that in the standard calcium solution you prepared, pipet 50 mL of the water sample into two clean 250 mL Erlenmeyer flasks. As before, add 2 drops of indicator and 5 mL of pH 10 buffer and titrate to a blue endpoint. If the volume of EDTA required in the first titration is low due to the fact that the water is not very hard, increase the volume of the water sample so that in succeeding titrations, it takes at least 20 mL of EDTA to reach the endpoint. As above two titrations must be reported, do a third titration if necessary.

**Be sure to save about 50 mL of your standard calcium solution in a bottle for next week's experiment and label it "500 ppm calcium".**

**Be sure to save about 50 mL of your unknown solution in a bottle for next week's experiment and label it "unknown calcium".**

**Be sure to save the unknown number and the ppm  $\text{CaCO}_3$  calculated in this experiment for use in next weeks AA experiment.**

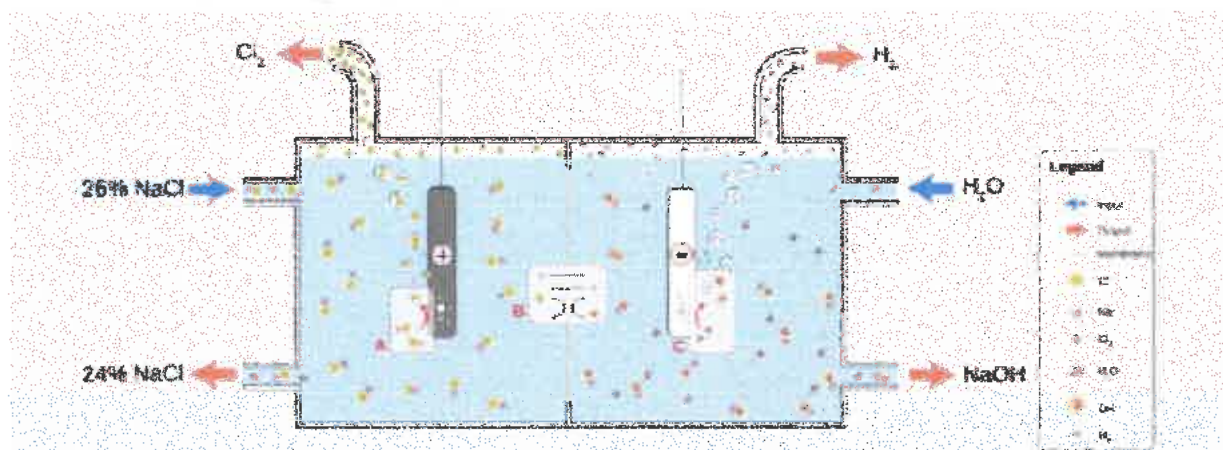
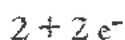
## Chloride analysis:

### Introduction:

The chloride ion is the anion (negatively charged ion)  $\text{Cl}^-$ . It is formed when the element chlorine (a halogen) gains an electron or when a compound such as hydrogen chloride is dissolved in water or other polar solvents. Chloride salts such as sodium chloride are often very soluble in water. It is an essential electrolyte located in all body fluids responsible for maintaining acid/base balance, transmitting nerve impulses and regulating fluid in and out of cells. Less frequently, the word *chloride* may also form part of the "common" name of chemical compounds in which one or more chlorine atoms are covalently bonded. For example, methyl chloride, with the standard name chloromethane (see IUPAC books) is an organic compound with a covalent C-Cl bond in which the chlorine is not an anion.

### Measurement:

The chlor-alkali industry is a major consumer of the world's energy budget. This process converts sodium chloride into chlorine and sodium hydroxide, which are used to make many other materials and chemicals. The process involves two parallel reactions:



Basic membrane cell used in the electrolysis of brine. At the anode (A), chloride ( $\text{Cl}^-$ ) is oxidized to chlorine. The ion-selective membrane (B) allows the counterion  $\text{Na}^+$  to

freely flow across, but prevents anions such as hydroxide ( $\text{OH}^-$ ) and chloride from diffusing across. At the cathode (C), water is reduced to hydroxide and hydrogen gas.

### Water quality and processing

Another major application involving chloride is desalination, which involves the energy intensive removal of chloride salts to give potable water. In the petroleum industry, the chlorides are a closely monitored constituent of the mud system. An increase of the chlorides in the mud system may be an indication of drilling into a high-pressure saltwater formation. Its increase can also indicate the poor quality of a target sand.

Chloride is also a useful and reliable chemical indicator of river / groundwater fecal contamination, as chloride is a non-reactive solute and ubiquitous to sewage & potable water. Many water regulating companies around the world utilize chloride to check the contamination levels of the rivers and potable water sources.



## Nitrate Determination

Solutions containing nitrates absorb UV light at 220 nm. Thus, the concentration of nitrates in a water sample can be calculated by comparing the sample's absorption to that of a known nitrate concentration. However, dissolved organic materials can also absorb at 220 nm (thus skewing the nitrate value.) A correction can be calculated by using a second absorption value at 275 nm. At this wavelength, nitrates do not absorb, but dissolved organics do. The nitrate levels in our aquarium can vary significantly, from 1 ppm to over 20 ppm. You may want to check the aquarium log or do an initial test with the nitrate "test kit" to determine the approximate nitrate level before constructing your calibration curve. For example, if the approximate nitrate concentration is 15 ppm, the calibration curve should be in the range of 5-25 ppm. If the nitrate level is around 5 ppm, a calibration curve of 1-10 ppm will give you more accurate results. If the nitrate level in the tank is extremely high (more than 40 ppm) you may need to dilute the tank water sample to get an accurate analysis. Consult with an instructor about your strategy.

### Reagents:

**Stock nitrate solution:** Potassium nitrate ( $\text{KNO}_3$ ) has been dried in an oven at  $105^\circ\text{C}$  for 24 hours. It is stored in a small dessicator. Dissolve 0.0408 g in 250 mL of distilled water in a volumetric flask (use the analytical balance to mass out the potassium nitrate). This solution is 100 ppm  $\text{NO}_3$

*forget to return the  $\text{KNO}_3$  to the dessicator when you are done!*

**Seawater:** Tare a large beaker on a balance. Add 50.0 g distilled water to the beaker. Add small portions of sea salt to the water until you reach the desired weight:  $50.0 \text{ g} \times \text{specific gravity} = \text{desired weight of seawater}$ . (for example, if the specific gravity of the tank is 1.020 that day, your desired weight is  $50.0 \times 1.020 = 51.0 \text{ g}$ .) Mix well, use as your spectrometry blank. You can share your leftover seawater with the several

other people in your lab section ( $\text{NH}_3$ ,  $\text{NO}_2^-$ ,

P04

3-) who need a few mL for their analyses. Any unused seawater can be disposed of down the drain.

## STANDARD PARAMETERS (VALUES)

Sl. No.	Parameters	Protocol	Unit	Results		Standard Desirable Limit	Standard Permissible limits in absence of alternate source
				Well Benadi	Borewell Khadakalar		
1	Conductivity	Titrimetric	$\mu\text{S}/\text{cm}$	1180	940	-	-
2	pH	Cond / TDS meter	Mg/L	7.4	6.8	-	-
3	Total alkalinity as $\text{CaCO}_3$	Cond / TDS meter	Mg/L	340	420	200.00	600.00
4	DO	Titrimetric	Mg/L	7.2	6.80	-	-
5	COD	Titrimetric	Mg/L	-	-	-	-
6	BOD	Titrimetric	Mg/L	0.60	0.70	-	-
7	Magnesium as Mg.	By calculation	Mg/L	708	573	500	2000.00
8	Calcium as Ca	Spectrometer	Mg/L	200	216	75.00	200.00
9	Chlorides	Spectrometer	Mg/L	225	250	250.00	1000.00
10	Nitrate as $(\text{NO}_3)$	Titrimetric	Mg/L	10.87	11.26	45.00	No Relaxation

## PRACTICAL VALUES RECORDED:

Parameters	Sankeshwar, Well Water	Bhoj Borewell Water
DO	356 PPM	329 PPM
TDS	0.199 PPM	0.18 PPM
Salinity	0.03 PPM	0.01 PPM
PH	7.1	7.4
Temperature	31°C	32°C
EC	0.01 PPM	0.02 PPM

## RESULTS AND DISCUSSION:

The physicochemical parameters of the well of Benadi and borewell of Khadaklat been given in the table. Conductivity measures the electrical current, which is proportional to Lie mineral matter present in water. Conductivity is thus measurement of total dissolved solids [IDS] in water. Conductivity is represent in umhos/cm in water analysis. It is a very important parameter for determining the water quality for drinking and agricultural purpose. Conductivity value in water samples in borewell is 940 and well is 1180.

Dissolved *oxygen* is one of the most important factors in water quality assessment and reflects the physical and biological process prevailing in natural water. In present investigation the dissolved oxygen concentration higher in well water and lower in the borewell water . this may be due to the decomposition of organic matter was an important factors in consumption of dissolved oxygen.the presence of chlorides in natural water is mainly due to the dissolution of salts deposits. The maximum chloride concentration in borewell water and less in well.

Calcium is one of the important components of the plant tissues and regulates many physiological function in organism . in present work the minimum calcium in well and maximum in borewell.

Magnesium is sn essential constituent of chlorophyllous plants, as it forms the nucleolus of the prophyrin ring of the chlorophyll molecule in the present work maximum in well and less in borewell. It shows direct relation with the dissolved organic matter.

Nitrates is the most oxidized form of nitrogen which is the important plant material. The nitrate content of the water sample varies i.e. in more in borewell water and less in well.

Dissolved solids , which are also refered to as total dissolved solids are various kinds of mineral substances present in water. The concentration of dissolved solids in water gives

an idea about suitability of this water for various uses including that of potable water. TDS are more in well and less in borewell.

BOD is of great importance In water quality assessment, seasonal variations in the values of bio chemical oxygen demand appears to be a function of changes in the degree of dilution, quantity of organic matter and the activity of microorganism carrying out decomposition of carbonous and nitrogenous wastes . it is more in borewell water and less in well water. So, before using borewell water one should analyse the water and then use.

## SUMMARY AND CONCLUSION

All phytoplankton groups are positively inter-co-related with each other. By observing the results one may conclude that the Bore well water contains high salts which directly effect the human health. So, before using borewell water one should analyse the water and then use.

In present study, conductivity values of well is 1180 and borewell is 940. Dissolved oxygen concentration in borewell is 6.80 and maximum in well is 7.4. The total solids in the well is 708 and that of borewell is 573. Total alkalinity of well is 340 and borewell is 420. it is recorded low alkalinity in well and high in borewell due to dilution effect of rainfall. The total hardness is the total soluble magnesium salt present in the well is 199 and for borewell is 124 and for calcium in well is 200 and that of borewell is 216. Total alkalinity as  $\text{CaCO}_3$  for well is 340 and that of borewell is 420. The total hardness of chloride of borewell is 250 and that of well is 225. even that of nitrate in well is 10.87 and borewell is 11.26. The BOD of well is 0.60 and borewell is 0.70.



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K. L. E. Society's

**G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI - 591237**



(Reaccredited by NAAC at 'A' Level with CGPA 3.35)

"College with Potential for Excellence"

# Certificate

## DEPARTMENT OF CHEMISTRY

This is to certify that Mr./Miss. Nikita Savant

of B.Sc VI<sup>th</sup> Semester has successfully completed a certificate course in

**Water Analysis** & Submitted the report during the academic year 2016-17.

  
Head

Department of Chemistry.

  
Staff Incharge



  
PRINCIPAL



**K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-  
591237**

Accredited at 'A' level by NAAC with CGPA 3.35  
(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)  
Website: [www.kleibnnpn.edu.in](http://www.kleibnnpn.edu.in) E-mail: [kleibnnpn@yahoo.co.in](mailto:kleibnnpn@yahoo.co.in) Ph.: 08338-220116

**IQAC INITIATIVE  
Department of Chemistry  
REPORT ON :- Certificate Course on water analysis**

Name of the Department	Chemistry					
Name of the Event Organized	Guest Lecture					
Title of the Event	Certificate Course on water analysis					
Date of the Event Organized	04/03/2017					
Name of the Convener	Shri. P. T. Narawade					
Participants	102					
No. of Participants	Total	102	Teachers	12	Students	90
Name of the Expert with Designation	Dr. P. D. Shiragave, Associate Professor					
Contact Number & Address of the Expert	Head of Department of Agro Chemistry, Devachand College, Arjun Nagar, Maharashtra.					
Objectives of the Event	1. To understand the different types of water. 2. To make students to understand the different parameters of water analysis.					
Outcome of the Event	It enhances the skill of water analysis and can become self-entrepreneurship.					

**Photo Gallery**



*(Signature)*  
**IQAC Coordinator**  
**Co-ordinator IQAC**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

*(Signature)*  
**HOD**  
**Head**  
Department of Chemistry  
K.L.E's G. I. B. College, Nipani.

*(Signature)*  
**Principal**  
**PRINCIPAL**  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.







K.L.E. Society's

**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

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Date: 22/03/2017

**IQAC INITIATIVE**

**Department of Chemistry**

**Report**

**Certificate Course on Water Analysis - 2016-17**

Department of chemistry conducted certificate course in chemistry which includes 16 hours theory and 16 hours practicals for B.Sc. VI<sup>th</sup> semester PCM students. A total 101 B.Sc. chemistry students were enrolled for 'Water Analysis'. The classes were conducted from 08/01/2017 to 26/03/2017 by experienced faculty of chemistry department. Dr. P. D. Shiragavi, Dept. of Agro Chemistry, Devachand College Arjunnagar delivered a lecture on water analysis and elaborated pH of water and other parameters on 04/03/2017.

For the practical training on Water Analysis the students were divided into 4 batches and sent to Department of Agro Chemistry, Devachand College, Arjun Nagar on 16/03/2017 to 21/03/2017. During practicals students were exposed to measure the factors like acidity, turbidity, suspended particles, pH & conductivity etc and students were made to handle sophisticated instruments like absorption spectrophotometer, pH meter, conductometer, Kjeldahl's apparatus and flame photometer. After the completion of the Certificate Course a written test of 20 marks was conducted & Certificates were issued to all students. 101 students and 12 staff members attended the function.

**PRINCIPAL**  
**K. L. E. Society's**

**G. I. Bagewadi College, Nipani.**





Water analysis demonstration by Dr. P. D. Shiragave, Devchand College, Arjun nagar.



Students using Water analysis kit.

  
Convener

  
Head  
Department of Chemistry  
K.L.E.'s G. I. B. College, Nipani.

  
Principal  
**PRINCIPAL**  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.







V 2

**K.L.E.Society**  
**G.I.BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,**  
**Dist. Belgaum**

05/01/2017

## **DEPARTMENT OF ZOOLOGY**

### **NOTICE**

The department of zoology is decided to carry and conduct a certificate course in **VERMITECH** for three months that is January 2017 to March 2017 for B.Sc. III year CBZ students.

This course is with weekly 2 hrs theory class and 1 (2hrs) practical.

Students of B.Sc.III are informed to enroll their names to HOD on or before 9th January 2017 with minimum registration fee of Rs. 200/-. The classes will start on 11th January 2017 according to the time table.

**HOD**

**Department of zoology**  
*Department of Zoology*  
**G. I. Bagewadi College, Nipani.**



## DEPARTMENT OF ZOOLOGY

Application form for admission to Certificate Course in Zoology for the year 2016-17.

To,  
HOD of Zoology  
K.L.E. Society's G.I. Bagewadi College, Nipani



### PARTICULARS OF APPLICANT

1. Full name of the applicant:

Deepika. Prakash. Hulikoppa.

2. Class: B. Sc III year

3. Category: III - B

4. Gender: Female

5. Address for correspondence

A/p: Examba  
Tal: Chikodi  
Dist: Belgaum.

Contact No.: 9743326787

6. E-mail ID: deepuhuli@gmail.com

  
Signature of Applicant



Website: [www.klegibcollege.com](http://www.klegibcollege.com)  
E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)  
Ph: 08338-220116, 220418

## DEPARTMENT OF ZOOLOGY

Application form for admission to Certificate Course in Zoology for the year 2016-17.

To,  
HOD of Zoology  
K.L.E. Society's G.I. Bagewadi College, Nipani



### PARTICULARS OF APPLICANT

1. Full name of the applicant:

Preeti G. Yadav

2. Class: B.Sc Third year [V<sup>th</sup> Sem]

3. Category: SC

4. Gender: Female

5. Address for correspondence

Behind Municipal High School, Nipani

Contact No.: 7611550682

6. E-mail ID: Gangadhar yadav 55@gmail.com

*Gangadhar*

Signature of Applicant



Website: [www.klegibcollege.com](http://www.klegibcollege.com)  
E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)  
Ph: 08338-220116, 220416



K.L.E. Society's

G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,  
Dist. Belgaum

DEPARTMENT OF ZOOLOGY

LIST OF STUDENTS IN CERTIFICATE COURSE 2016-17

SL. No.	NAME	CLASS	Sign
1	ABHISHEK SULTANNAVAR	B. Sc. III	
2	VISHAL AWATI		
3	BALKRISHNA PATIL		
4	AVADHUT CHINCHANE		
5	CHINMAY KULKARNI		
6	FARHEEN JAMADAR		
7	SANIYA JAMADAR		
8	SUHASINI KADAM		
9	KIRTI PATIL		
10	TEJASWINI KONDEKAR		
11	KOMAL MAHAJAN		
12	NISHA MAGADUM		
13	RUTUJA PATIL		
14	SHWETA PATIL		
15	POOJA LUKK		
16	PRAVIN BATTE		
17	PRIYANKA SHINDE		
18	PRIYANKA KAMATE		
19	RANJIT PUNDE		
20	ROHINI PATIL		
21	SACHIN KULKARNI		
22	SAGAR SANGANE		
23	SANMATI MEKKALIKE		
24	NIKITA SAVANT		
25	SHEETAL SHIROLE		
26	SHEKHAR JOKE		
27	SHIVANAND SHENDRE		
28	SUJATA MAGADUM		
29	SUJATA KUMBHAR		
30	SURAJ PATIL		
31	SURAJ PATIL		
32	SWATI SANKPAL		
33	VIVEK CHAVAN		
34	Deepika Hullikoppi		
35	PREETI YADAV		



Head

Department of Zoology  
K.L.E.'s G. I. B. College, Nipani

PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

**SYLLABUS:**

**Theory:**

**1 hour X 20=20 hours**

**UNIT-I: 2 Hrs**

General properties of the soil - structure of the soil - sand, clay, salt, types of soils -soil organisms.

**UNIT-II: 5 Hrs**

Soil biota - Earthworms -Ecological classification of earth worms as Epigeics - Introduction to earthworm biology - role of earthworms in soil - classification of earthworms based on ecological strategies - Burrowing activity of earthworms -- Drilospheres -Microorganisms and their relationship with earthworms.

**UNIT-III: 5 Hrs**

Composting - anaerobic composting, aerobic composting, types of composting, vermicompost - earthworm species used in vermicompost production-endemic species, exotic species.

**UNIT-IV: 8 Hrs**


Vermicompost -setting up vermicompost unit - vermiculture - vermiwash - role of vermicompost in organic farming - its quality and advantages over chemical inputs. Earthworms in bioreclamation of soil. Problems in vermiculture units - remedial suggestions. Vermicomposting as a tool for solid waste management -a small scale industry and its economics.

**Practical:**

**10 X 2 Hrs = 20 Hrs**


- |   |   |
|---|---|
| 1. General properties of the soil - structure of the soil - sand, clay, salt, types of soils -soil organisms. | 1 |
| 2. Introduction to earthworm, types of Earthworm.   | 1 |
| 3. Composting: Types  | 1 |
| 4. Vermicomposting. Set up of pit, specifications, and preparations   | 2 |
| 5. Vermiculture: selection of species, Introduction of earthworm and rearing techniques.                      | 2 |
| 6. Harvesting the Product.  | 1 |
| 7. Visit to demo Plant  | 1 |
| 8. Field Visit  | 1 |

**Total 10 Practicals**

  
H.O.D.  
Department of Zoology  
G.L. Bagewadi NIPANI

Theory - 20 hrs  
Prac - 20 hrs  
Total 40 hrs



  
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G.I .BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,  
Dist. Belgaum

DEPARTMENT OF ZOOLOGY

ANNUAL REPORT ON CERTIFICATE COURSE IN  
VERMITECH  
2016-17

- Number of students enrolled - 35
- Number of staff - 02
  - 1) Mrs. Hemalata Halappanavar
  - 2) Miss. Tanu Kumbhar
- Number of classes conducted - 40 (20 Th+20Pr)
- We have conducted the practicals with the help of our vermitech unit at college garden.
- One MCQ test conducted for 20 marks
- Certificates are distributed to all the students on 12.04.2017



HOD

Head  
Department of Zoology  
K. L. E. Society's

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K. L. E. Society's  
G. I. Bagewadi College, Nipani.





Date: 05/01/2017

## DEPARTMENT OF ZOOLOGY

2016-17

The following staff members are going to conduct classes for certificate course in Vermitech.

1. Smt. Hemalata Halappanavar
2. Miss. Tanu Kumbhar



  
HOD

*Department of Zoology*  
G. I. Bagewadi College, Nipani.

**K.L.E. Society**  
**G. I. Bagewadi Arts, Science, Commerce & PG College, Nipani**

**TIME-TABLE**

**VERMITECH.**

Name of the Department: ZOOLOGY

B.Sc. VI Semester.

Year: 2018-19

Days	1	2	3	4	5	6	7	8	9	10	
Time	8.15 to 10.15	10.15 to 10.30	10.30 to 11.30	11.30 to 12.30	12.30 to 1.30	1.30 to 2.00	2.00 to 3.00	3.00 To 4.00	4.00 To 5.00	5.00 To 6.00	
Monday		SHORT BREAK				LUNCH BREAK					
Tuesday											
Wednesday											
Thursday	← PRACTICALS HIH + TK									B.Sc III TK	
Friday										B.Sc III HIH.	
Saturday											

*[Signature]*  
**HOD**  
 Head

Department of Zoology  
 K.L.E's G. I. B. College, Nipani



*[Signature]*  
**Principal**  
 PRINCIPAL  
 G.I. Bagewadi Arts, Science &  
 Commerce College, NIPANI




DEPARTMENT OF ZOOLOGY  
CERTIFICATE COURSE 2016-17

TEST MARKS

SL. No.	NAME	MARKS
1	ABHISHEK SULTANNAVAR	08
2	VISHAL AWATI	11
3	BALKRISHNA PATIL	12
4	AVADHUT CHINCHANE	08
5	CHINMAY KULKARNI	13
6	FARHEEN JAMADAR	17
7	SANIYA JAMADAR	15
8	SUHASINI KADAM	12
9	KIRTI PATIL	09
10	TEJASWINI KONDEKAR	17
11	KOMAL MAHAJAN	09
12	NISHA MAGADUM	10
13	RUTUJA PATIL	15
14	SHWETA PATIL	09
15	POOJA LUKK	10
16	PRAVIN BATTE	08
17	PRIYANKA SHINDE	11
18	PRIYANKA KAMATE	12
19	RANJIT PUNDE	11
20	ROHINI PATIL	10
21	SACHIN KULKARNI	04
22	SAGAR SANGANE	08
23	SANMATI MEKKALIKE	11
24	NIKITA SAVANT	09
25	SHEETAL SHIROLE	12
26	SHEKHAR JOKE	10
27	SHIVANAND SHENDRE	09
28	SUJATA MAGADUM	11
29	SUJATA KUMBHAR	09
30	SURAJ PATIL	09
31	SURAJ PATIL	12
32	SWATI SANKPAL	11
33	VIVEK CHAVAN	09
34	PREETI YADAV	13
35	DEEPIKA HULIKOPPE	AB



  
HOD  
Head  
03.4.17.  
Department of Zoology  
K.L.E.'s G. I. B. College, Nipani

2016-17

K.L.E SOCIETY'S  
G.I.BAGEWADI COLLEGE, NIPANI.  
B.Sc. VI SEM Certificate Course

Subject: Vermitech

Internal Test

Max.Marks: 20

Answer the following:

31-03-2017

1. Soil is formed by .....  
a) Weathering of rocks    b) loosening of substratum    c) formation of clay    d) by fine particles
2. The incompletely decayed organic matter added to the soil is called.....  
a) humus    b) soil porous    c) dead matter    d) clay
3. ....% Of soil contains gasses.  
a) 50%    b) 60%    c) 25%    d) 15%
4. Soil is formed of ..... main layers  
a) 10    b) 02    c) 06    d) 05
5. Organic horizon is otherwise called.....  
a) O horizon    b) A horizon    c) D horizon    d) B horizon
6. The process of formation of soil from rock is called.....  
a) Pedogenesis    b) humification    c) mineralization    d) alluviation
7. All the organisms living in the soil constitutes.....  
a) Microfauna    b) macrofauna    c) microflora    d) all of these
8. .... are nitrifying bacteria  
a) Rhizobium    b) clostridium    c) azatobacter    d) all of these
9. The relative proportions of mineral particles of different sizes present in soil is called.....  
a) Silt    b) loamy soil    c) soil profile    d) soil texture
10. Common name for *Eisenia fetida* is.....  
a) Tiger worm    b) manure worm    c) brandling worm    d) all of these
11. Which of the following species is reported for its ability to create fine worm casting.....  
a) *Eisenia andrei*    b) *Perionyx excavatus*    c) *Lumbricus*    d) *Eisenia fetida*
12. These worms cannot make burrows in the soil.....  
a) *Eudrilus eugeniae*    b) *Perionyx excavatus*    c) *Eisenia fetida*    d) *Eisenia andrei*
13. Earthworms do not like acid soils with pH  
a) less than 4    b) less than 4.5    c) more than 5    d) more than 4.5
14. The liquid material produced during compost..... is called  
a) Manure    b) vermiwash    c) compost    d) all of these
15. Pit culture is a .....method for vermicomposting  
a) Large scale    b) small scale    c) pot unit    d) none of these
16. The rearing of earthworms is called.....  
a) Vermitech    b) vermiculture    c) vermicompost    d) vermimanure
17. Earth worm culturing should be done under shelter to avoid.....  
a) Direct sunlight    b) heavy rain    c) heavy downpour    d) heavy wind
18. Endogeic earthworms are.....  
a) Sub soil dwellers    b) upper soil dwellers    c) mid layer dwellers    d) burrowers
19. *Lumbricus terrestris* is the .....  
a) Anecic    b) endogeic    c) epigeic    d) all of these
20. Vermicompost is the excreta of earthworm, which is rich in.....  
a) Nitrogen    b) sulphur    c) humus    d) carbon



K.L.E SOCIETY'S  
 G.I.BAGEWADI COLLEGE, NIPANI,  
 B.Sc. VI SEM Certificate Course

Subject: Vermitech

Internal Test

Max.Marks: 20

Answer the following:

11/20

1. Soil is formed by .....  
 a) Weathering of rocks    b) loosening of substratum    c) formation of clay    d) by fine particles
2. The Incompletely decayed organic matter added to the soil is called.....  
 a) humus    b) soil porous    c) dead matter    d) clay
3. ....% Of soil contains gasses  
 a) 50%    b) 60%    c) 25%    d) 15%
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 a) O horizon    b) A horizon    c) D horizon    d) B horizon
6. The process of formation of soil from rock is called.....  
 a) Pedogenesis    b) humification    c) mineralization    d) alluviation
7. All the organisms living in the soil constitutes.....  
 a) Microfauna    b) macrofauna    c) microflora    d) all of these
8. .... are nitrifying bacteria  
 a) Rhizobium    b) clostridium    c) azatobacter    d) all of these
9. The relative proportions of mineral particles of different sizes present in soil is called.....  
 a) Silt    b) loamy soil    c) soil profile    d) soil texture
10. Common name for Eisenia fetida is.....  
 a) Tiger worm    b) manure worm    c) brandling worm    d) all of these
11. Which of the following species is reported for its ability to create fine worm casting.....  
 a) Eisenia andrei    b) Perionyx excavatus    c) Lumbricus    d) Eisenia fetida
12. These worms cannot make burrows in the soil.....  
 a) Eudrilus eugeniae    b) Perionyx excavatus    c) Eisenia fetida    d) Eisenia andrei
13. Earthworms do not like acid soils with pH  
 a) less than 4    b) less than 4.5    c) more than 5    d) more than 4.5
14. The liquid material produced during compost..... is called  
 a) Manure    b) vermiwash    c) compost    d) all of these
15. Pit culture is a .....method for vermicoposting  
 a) Large scale    b) small scale    c) pot unit    d) none of these
16. The rearing of earthworms is called.....  
 a) Vermitech    b) vermiculture    c) vermicompost    d) vermimanure
17. Earth worm culturing should be done under shelter to avoid.....  
 a) Direct sunlight    b) heavy rain    c) heavy downpour    d) heavy wind
18. Endogeic earthworms are.....  
 a) Sub soil dwellers    b) upper soil dwellers    c) mid layer dwellers    d) burrowers
19. Lumbricus terrestris is the .....  
 a) Anecic    b) endogiec    c) epigeic    d) all of these
20. Vermicompost is the excreta of earthworm, which is rich in.....  
 a) Nitrogen    b) sulphur    c) humus    d) carbon





09  
20

K.L.E SOCIETY'S  
G.I.BAGEWADI COLLEGE, NIPANI.  
B.Sc. VI SEM Certificate Course

Subject: Vermitech

Internal Test

Max.Marks: 20

Answer the following:

1. Soil is formed by .....  
a) Weathering of rocks    b) loosening of substratum    c) formation of clay    d) by fine particles
2. The incompletely decayed organic matter added to the soil is called.....  
a) humus    b) soil porous    c) dead matter    d) clay
3. ....% Of soil contains gasses.  
a) 50%    b) 60%    c) 25%    d) 15%
4. Soil is formed of ..... main layers  
a) 10    b) 02    c) 06    d) 05
5. Organic horizon is otherwise called.....  
a) O horizon    b) A horizon    c) D horizon    d) B horizon
6. The process of formation of soil from rock is called.....  
a) Pedogenesis    b) humification    c) mineralization    d) alluviation
7. All the organisms living in the soil constitutes.....  
a) Microfauna    b) macrofauna    c) microflora    d) all of these
8. .... are nitrifying bacteria  
a) Rhizobium    b) clostridium    c) azatobacter    d) all of these
9. The relative proportions of mineral particles of different sizes present in soil is called.....  
a) Silt    b) loamy soil    c) soil profile    d) soil texture
10. Common name for *Eisenia fetida* is.....  
a) Tiger worm    b) manure worm    c) brandling worm    d) all of these
11. Which of the following species is reported for its ability to create fine worm casting.....  
a) *Eisenia andrei*    b) *Perionyx excavatus*    c) *Lumbricus*    d) *Eisenia fetida*
12. These worms cannot make burrows in the soil.....  
a) *Eudrilus eugeniae*    b) *Perionyx excavatus*    c) *Eisenia fetida*    d) *Eisenia andrei*
13. Earthworms do not like acid soils with pH  
a) less than 4    b) less than 4.5    c) more than 5    d) more than 4.5
14. The liquid material produced during compost..... is called  
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15. Pit culture is a ..... method for vermiculture  
a) Large scale    b) small scale    c) pot-unit    d) none of these
16. The rearing of earthworms is called.....  
a) Vermitech    b) vermiculture    c) vermicompost    d) vermimanure
17. Earth worm culturing should be done under shelter to avoid.....  
a) Direct sunlight    b) heavy rain    c) heavy downpour    d) heavy wind
18. Endogeic earthworms are.....  
a) Sub soil dwellers    b) upper soil dwellers    c) mid layer dwellers    d) burrowers
19. *Lumbricus terrestris* is the .....  
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20. Vermicompost is the excreta of earthworm, which is rich in.....  
a) Nitrogen    b) sulphur    c) humus    d) carbon





K. L. E. Society's

**G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI - 591237**



(Re-accredited by NAAC at 'A' Level with CGPA 3.35)

# Certificate

## DEPARTMENT OF ZOOLOGY

This is to certify that Mr./Miss. Saahin Kulkarni  
of B.sc III<sup>rd</sup> Semester has successfully completed a certificate course in  
**Vermitech** during the year 2016-17.

  
Head  
Department of Zoology.



  
PRINCIPAL  
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K. L. E. Society's  
G. I. Bagewadi College, Nipani.

## VERMICOMPOST UNIT SUMMARY

2016-2017

Vermicompost is the product or process of composting using various species of earthworms to create a heterogenous mixture of decomposing vegetable or food waste. It is a product of break down of organic matter by earthworms. It is an excellent nutrient rich organic fertiliser and soil conditioner.

It is practiced for both large scale as well as small scale.

Vermicompost is rich in many nutrients than compost produced by composting methods. It is rich in microbial life which converts nutrients already present in the soil into plant available forms.

It improves soil aeration, enriches soil with microorganisms by adding enzymes such as phosphatase and cellulose. It enhances germination of plants. Vermicompost unit provides independent financial support to the needy.



**HOD**

**Head**  
Department of Zoology  
K.L.E's G. I. B. College, Nipani.



**PRINCIPAL**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

## PHOTOS





**K.L.E.Society**  
**BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,**  
**Dist. Belgaum**

05/01/2017

## **DEPARTMENT OF ZOOLOGY**

### **NOTICE**

The department of zoology is decided to carry and conduct a certificate course in **DAIRY FARMING** for three months that is January 2017 to March 2017 for B.Sc. II year CBZ students.

This course is with weekly 2 hrs theory class and 1 (2hrs) practical.

Students of B.Sc.II are informed to enroll their names to HOD on or before 9th January 2017 with minimum registration fee of Rs. 200/-. The classes will start on 11th January 2017 according to the time table.

HOD

Department of Zoology  
G. I. Bagewadi College, Nipani.



**PRINCIPAL**  
**K. L. E. Society's**  
**G. I. Bagewadi College, Nipani.**



## DEPARTMENT OF ZOOLOGY

Application form for admission to Certificate Course in Zoology for the year 2016-17.



To,  
HOD of Zoology  
K.L.E. Society's G.I. Bagewadi College, Nipani

### PARTICULARS OF APPLICANT

1. Full name of the applicant:

Uzma. Mohammed hanif. Mulla

2. Class: Bsc. II<sup>th</sup> sem

3. Category: TI B


4. Gender: Female

5. Address for correspondence

A/P- Solapur pin code - 591313  
Tal- Hukkeri  
Dist- Belgaum

Contact No.: 997222986

6. E-mail ID: \_\_\_\_\_

  
Signature of Applicant



## DEPARTMENT OF ZOOLOGY

Application form for admission to Certificate Course in Zoology for the year 2016-17.



To,  
HOD of Zoology  
K.L.E. Society's G.I. Bagewadi College, Nipani

### PARTICULARS OF APPLICANT

1. Full name of the applicant:

VIJAY KUMAR. R . KARASHI.

2. Class: BSC IV Sem.

3. Category: III B.

4. Gender: male.

5. Address for correspondence

A/p :- Kurani.

Tal :- Hutkari.

A/ster Belagavi. PIN Code :- 591221.

Contact No.: 7795 756537.

6. E-mail ID: vkarashi48@gmail.com

vkarashi48@gmail.com

  
Signature of Applicant



Website: [www.klegibcollege.com](http://www.klegibcollege.com)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

Ph: 08338-220116, 220416





K.L.E. Society's

G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,  
Dist. Belgaum

DEPARTMENT OF ZOOLOGY

LIST OF STUDENTS IN CERTIFICATE COURSE 2016-17

SL. No.	NAME	CLASS	Sign
1	ABHISHEK SULTANAVAR	B. Sc. III	
2	VISHAL AWATI		
3	BALKRISHNA PATIL		
4	AVADHUT CHINCHANE		
5	CHINMAY KULKARNI		
6	FARHEEN JAMADAR		
7	SANIYA JAMADAR		
8	SUHASINI KADAM		
9	KIRTI PATIL		
10	JEJASWINI KONDEKAR		
11	KOMAL MAHAJAN		
12	NISHA MAGADUM		
13	RUTUJA PATIL		
14	SHWETA PATIL		
15	POOJA LUKK		
16	PRAVIN BATTE		
17	PRIYANKA SHINDE		
18	PRIYANKA KAMATE		
19	RANJIT PUNDE		
20	ROHINI PATIL		
21	SACHIN KULKARNI		
22	SAGAR SANGANE		
23	SANMATI MEKKALIKE		
24	NIKITA SAVANT		
25	SHEETAL SHIROLE		
26	SHEKHAR JOKE		
27	SHIVANAND SHENDRE		
28	SUJATA MAGADUM		
29	SUJATA KUMBHAR		
30	SURAJ PATIL		
31	SURAJ PATIL		
32	SWATI SANKPAL		
33	VIVEK CHAVAN		
34	Deepika Hullikoppi		
35	PREETI YADAV		



Department of Zoology  
G. I. Bagewadi College, Nipani,

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**CERTIFICATE COURSE IN**

**DAIRY FARMING**

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**COURSE DETAILS**

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**K.L.E. SOCIETY'S  
G. I. BAGEWADI ARTS, COMMERCE & SCIENCE  
COLLEGE, NIPANI-591237**

**DEPARTMENT OF ZOOLOGY**





**K.L.E Society's**

**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

## **DEPARTMENT OF ZOOLOGY**

### **CERTIFICATE COURSE IN DAIRY FARMING**

#### **Introduction to the programme**

The domestic animals reared for use or profit are referred to as livestock. Livestock includes cattle, goats, sheep, pig, horses, camels. In India livestock population constitutes about 369 million which is 12% of the world's total livestock population. It contributes around 11% of the national income from agriculture.

Among the different livestock, cattle plays an important role in the economy of a developing agriculture country. Early records indicate that cattle were used for draft, milk, sacrifice, and in some cases for meat and sport. So many of these early uses have continued in modern times like bullfighting, sacrificing animals for religious purposes and considering cows as sacred.

#### **Objectives**

4. Development and strengthen Human Resources by infusing/ imparting knowledge  
And skill in dairy Farming through open and distance learning (ODL) mode.
5. Create awareness about the opportunities employment and livelihood in dairy farm sector.
6. Impart basic knowledge and technical proficiency in dairy farming, housing management and nutrition.

**Course Duration- 3 months**

3. Three months i.e. January to March

4. Two theory classes/week

**Intake of students- 30 students**



  
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**K. L. E. Society's**  
**G. I. Bagewadi College, Nipani.**

## SYLLABUS

- |  |      |
|--|------|
| 01. Introduction of dairy farming -  | 01hr |
| 02. Breeds of cattles (Indigenous and exotic breeds) -                           | 05hr |
| 03. Mentainance and diseases of cattles -  | 04hr |
| 04. Utility of cattles-  | 04hr |
| 05. Nutritive value of milk, processing of milk, marketing<br>and distribution - | 04hr |
| 06. Dairy manure and feeding   | 02hr |
| 07. Products and byproducts of milk  | 06hr |

### Practicals

- |                              |      |
|------------------------------|------|
| 01. Cattle Breeds -          | 01hr |
| 02. Diseases of Cattles -    | 01hr |
| 03. Dairy manure & feeding - | 01hr |
| 04. Visit to dairy farm      |      |
| 05. Record book              |      |



  
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G. I. Bagundi College, Nipani.



K.L.E. Society's

G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,  
Dist. Belgaum

**DEPARTMENT OF ZOOLOGY**

**ANNUAL REPORT ON CERTIFICATE COURSE IN  
DAIRY FARMING  
2016-17**

- Number of students enrolled - 35
- Number of staff - 02
  - 1) Mrs. Hemalata Halappanavar
  - 2) Miss. S. M. Hegade
- Number of classes conducted - 30 (27 Th+ 03Pr)
- At the end of course one test is conducted and 34 students are attended.
- A study tour on dairy farming has been arranged for students to near by milk industry, at Gokul Shirgaon along with our staff members.
- Certificates are distributed to all the students on 12.04.2017



  
HOD

Head  
Department of Zoology  
K.L.E.'s G. I. B. College, Nipani.

  
PRINCIPAL  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

**K.L.E. Society**  
**G. I. Bagewadi Arts, Science, Commerce & PG College, Nipani**

**TIME-TABLE**


Name of the Department: Zoology class: B.Sc IV sem Year: 2016-17

Days	1	2	3	4	5	6	7	8	9	10	
Time	9.15 to 10.15	10.15 to 10.30	10.30 to 11.30	11.30 to 12.30	12.30 to 1.30	1.30 to 2.00	2.00 to 3.00	3.00 To 4.00	4.00 To 5.00	5.00 To 6.00	
Monday		SHORT BREAK				LUNCH BREAK					
Tuesday											
Wednesday										←→ (HIH + SMH)	
Thursday	←→ SMH										
Friday	←→ HIH										
Saturday											

  
**HOD**

Department of Zoology  
 G. I. Bagewadi College, Nipani.



  
**Principal**  
 G. I. Bagewadi College, Nipani.





**K.L.E. Society's**  
**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI--591237,**  
**Dist. Belgaum**

Date: 06/01/2017

## DEPARTMENT OF ZOOLOGY

2016-17

The following staff members are going to conduct classes for certificate course in dairy farming.

1. Smt. Hemalata Halappanavar.
2. Miss. Sampatta M.Hegade.



HOD

Department of Zoology  
G. I. Bagewadi College, Nipani.

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G. I. Bagewadi College, Nipani.



K.L.E. Society's

G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI-591237,  
Dist. Belgaum

Date:10/04/2017

DEPARTMENT OF ZOOLOGY  
Certificate course in Dairy farming  
B.Sc. IV Sem STUDENTS 2016-17  
Test marks

SL. No.	NAME	Marks
1	Achal Magadum	17
2	Akshay Havaladar	12
3	Ankita Magadum	11
4	Arti Bhalebhaladar	20
5	Archana Kumbar	18
6	Ashwini Sabale	08
7	Harsha Shirkoli	08
8	Varsha Jabade	16
9	Kalyani Shitole	15
10	Karishma Halakarni	19
11	Kaveri Kumbar	08
12	Laxmi Shetti	17
13	Mahadevi Bhanase	09
14	Maruti Gurav	17
15	Mayuri Jasud	09
16	Neelam Patil	Ab
17	Pallavi Kumbar	09
18	Pallavi Nagave	17
19	Shivani Patil	18
20	Pragati Patil	15
21	Reshma Chougale	20
22	Rushikesh Majage	16
23	Sanobar Mulla	15
24	Shraddha Sangane	16
25	Shruti Chonchannavar	15
26	Sonali Naik	12
27	Tejashri Mangavate	10
28	Trupti Kamble	05
29	Uzma Mulla	10
30	Varsha Kenawade	15
31	Vijaykumar Karoshi	14
32	Yashodha Hunakumpi	18
33	Megharani Patil	13
34	Aishwarya Modi	10
35	Chaitanya Chavan	13



HOD

Head

Department of Zoology  
K.L.E.'s G.I. B. College, Nipani

PRINCIPAL  
K. L. E. Society's

G. I. Bagewadi College, Nipani.

13  
20

K.L.E SOCIETY'S  
G.I.BAGEWADI COLLEGE, NIPANI.  
B.Sc. VI SEM Certificate Course

Subject: Vermitech

Internal Test

Max.Marks: 20

Answer the following:

1. Soil is formed by .....  
 a) Weathering of rocks     b) loosening of substratum     c) formation of clay     d) by fine particles
2. The incompletely decayed organic matter added to the soil is called.....  
 a) humus     b) soil porous     c) dead matter     d) clay
3. ....% of soil contains gasses.  
 a) 50%     b) 60%     c) 25%     d) 15%
4. Soil is formed of ..... main layers  
 a) 10     b) 02     c) 06     d) 05
5. Organic horizon is otherwise called.....  
 a) O horizon     b) A horizon     c) D horizon     d) B horizon
6. The process of formation of soil from rock is called.....  
 a) Pedogenesis     b) humification     c) mineralization     d) alluviation
7. All the organisms living in the soil constitutes.....  
 a) Microfauna     b) macrofauna     c) microflora     d) all of these
8. .... are nitrifying bacteria  
 a) Rhizobium     b) clostridium     c) azatobacter     d) all of these
9. The relative proportions of mineral particles of different sizes present in soil is called.....  
 a) Silt     b) loamy soil     c) soil profile     d) soil texture
10. Common name for Eisenia fetida is.....  
 a) Tiger worm     b) manure worm     c) brandling worm     d) all of these
11. Which of the following species is reported for its ability to create fine worm casting.....  
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12. These worms cannot make burrows in the soil.....  
 a) Eudrilus eugeniae     b) Perionyx excavatus     c) Eisenia fetida     d) Eisenia andrei
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 a) Nitrogen     b) sulphur     c) humus     d) carbon



K. L. E. Society's

**G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI - 591237**



(Re-accredited by NAAC at 'A' Level with CGPA 3.35)

# Certificate

## DEPARTMENT OF ZOOLOGY

This is to certify that Mr./Miss: Akshay Hawaldar  
of B.sc IV Semester has successfully completed a certificate course in  
**Dairy Farming** during the year 2016-17.

  
Head  
Department of Zoology.



  
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K. L. E. Society's  
G. I. Bagewadi C. Nipani.

# Dairy farming summary

2016-2017

The dairy industry, covering the production, processing & distribution of milk and milk products is unique in its importance as it is concerned with valuable food stuffs universally consumed by man. Milk is the fresh lacteal secretion of milch animals naturally intended for the nourishment of the offspring, but exploited as an article of food by human beings.

The dairy cattle thrive best in areas where pasturage and other green forage are grown in abundance. In urban areas 60 to 70 percent of the total milk requirement is produced within the municipal limits, the rest is obtained from adjoining rural areas. Only 6 to 8 percent of the total milk produced in the country is transported from rural to urban centers for consumption as milk and milk products.

Apart of the milk consumed in large cities, like Calcutta, Mumbai, Chennai, Delhi and others, it is obtained from localities situated at a distance of even 75 km. Some successful efforts have been made to organize the production and marketing of milk on a cooperative basis.

HOD

Head

Department of Zoology  
K.L.E's G. I. B. College, Nipani.



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II 4



**K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

**[Re-accredited at 'A' level by NAAC with CGPA 3.35]**

Ph: 08338-220116, 220416

Website: [www.klegibcollege.com](http://www.klegibcollege.com)  
E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

## **DEPARTMENT OF MATHEMATICS**

### **Certificate Course for the year 2016-17**

#### **NOTICE**

Department of Mathematics is going to start a Certificate Course in "Reasoning and Quantitative Aptitude" in the third week of January 2017 which is very useful for all type of competitive exams., CET for PG courses and MNC online exams. So interested students of B.A., B.Sc., B.Com., B.C.A. and B.B.A can enrol their names in the Dept. of Mathematics on or before **10-01- 2017**.

**HOD**  
Head

Department of Mathematics  
K.L.E's G. I. B. College, Nipani.

**IQAC Co-ordinator**  
K.L.E's G. I. B. College, Nipani.

**Principal**  
PRINCIPAL

G.I.Bagewadi Arts, Science,  
Commerce & PG College, Nipani







**K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

**[Re-accredited at 'A' level by NAAC with CGPA 3.35]**

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Website: [www.klegibcollege.com](http://www.klegibcollege.com)  
E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

**DEPARTMENT OF MATHEMATICS**

**Application form for admission to Certificate Course in Mathematics**

**for the year 2016 -17**

To,

HOD of Mathematics

K.L.E. Society's G. I. Bagewadi college, Nipani

PASS PORT SIZE  
PHOTO

**PARTICULARS OF APPLICANT**

1) Full Name of the applicant

\_\_\_\_\_

2) Class : \_\_\_\_\_

3) Category : \_\_\_\_\_

4) Gender : \_\_\_\_\_

5) Address for correspondence:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Contact No.: \_\_\_\_\_

6) E-mail ID : \_\_\_\_\_



Signature of Applicant

**K. L. E. Society's**  
**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
DEPARTMENT OF MATHEMATICS  
Certificate Course in Mathematics  
**Reasoning and Quantitative Aptitude**  
Students Enrolment List 2016-17

Roll No.	Name of the students	Class	Category	Fees in Rs.
1	Praveeni Babannavar	B.Sc II Sem.	III B	500
2	Rani Navale	B.Sc II Sem.	III B	500
3	Tanuja Vaghmode	B.Sc II Sem.	III B	500
4	Bhakti Patil	B.Sc II Sem.	III B	500
5	Aishwarya Khot	B.Sc II Sem.	III B	500
6	Varsha Patil	B.Sc II Sem.	III B	500
7	Shweta Patil	B.Sc II Sem.	III B	500
8	Nikita Jabade	B.Sc II Sem.	III B	500
9	Sangeeta More	B.Sc II Sem.	III B	500
10	Arati Chavan	B.Sc II Sem.	III B	500
11	Miss Sammena Mulla	B.Sc II Sem.	II B	500
12	Anita Hamidwade	B.Sc II Sem.	III B	500
13	Vaishali Adake	B.Sc II Sem.	III B	500
14	Lata Barmal	B.Sc II Sem.	III B	500
15	Vanita Munnole	B.Sc II Sem.	III B	500
16	Sumayya Gajabar	B.Sc II Sem.	C-I	500
17	Pallavi Pujari	B.Sc II Sem.	III B	500
18	Bhanashree Nagaramunnoli	B.Sc II Sem.	III B	500
19	Varsha Payil	B.Sc II Sem.	III B	500
20	Pallavi Patil	B.Sc II Sem.	III B	500
21	Aiswarya malumallagol	B.Sc II Sem.	III B	500
22	Aiswarya Zele	B.Sc II Sem.	III B	500
23	Aishwarya Dharanagutte	B.Sc II Sem.	III B	500
24	Mayuri Darekar	B.Sc II Sem.	III B	500
25	Shweta Ravannavar	B.Sc II Sem.	III B	500
26	Asha Malagi	B.Sc II Sem.	III B	500
27	Nirmala Dhangl	B.Sc II Sem.	III B	500
28	Afreen Mujawar	B.Sc II Sem.	II B	500
29	Akshata Dadadavar	B.Sc II Sem.	SC	500
30	Akshata Bilikudure	B.Sc IV Sem.	III B	500
31	Pooja Marabille	B.Sc II Sem.	III B	500
32	Prachi Mayanna	B.Sc II Sem.	Cat.-I	500
33	Prajakta Bhore	B.Sc II Sem.	SC	500
34	Priya Patil	B.Sc IV Sem.	III B	500
35	Akshata Patil	B.Sc IV Sem.	III B	500
36	Maduri Hawaldar	B.Sc II Sem.	III B	500



Roll No.	Name of the students	Class	Category	Fees in Rs.
37	Poonam Kamble	B.Sc IV Sem.	SC	500
38	Nikita Payamalle	B.Sc IV Sem.	III B	500
39	Tejaswini Huchchannavar	B.Sc IV Sem.	III B	500
40	Shruti Tasildar	B.Sc II Sem.	III B	500
41	Prateebha Latthe	B.Sc II Sem.	III B	500
42	Amruta R Patil	B.Sc IV Sem.	III B	500
43	Sneha Kage	B.Sc IV Sem.	III B	500
44	Shreemanti Patil	B.Sc IV Sem.	III B	500
45	Vani Bhairshetti	B.Sc IV Sem.	III B	500
46	Pooja Soude	B.Sc IV Sem.	III B	500
47	Shrutika Patil	B.Sc IV Sem.	III B	500
48	Archana Kamate	B.Sc IV Sem.	II A	-
49	Salma Nadaf	B.Sc IV Sem.	III B	-
50	Paranjali Potadar	B.Sc II Sem.	II A	500
51	Shubhangi Parit	B.Sc II Sem.	III B	500
52	Shweta S. Jayakar	B.Sc II Sem.	SC	500
53	Vaijayanti Janakare	B.Sc II Sem.	III B	500
54	Virupaksa Mane	B.Sc IV Sem.	III B	500
55	Nikita Madiwal	B.Sc II Sem.	II A	500
<b>Total</b>				<b>26,500</b>

  
**HOD**  
 Department of Mathematics  
 K.L.E's G. I. B. College, Nipani.

  
**IQAC Co-ordinator**  
 K.L.E's G. I. B. College, Nipani.

  
**Principal**  
**PRINCIPAL**  
 G.I.Bagewadi Arts, Science,  
 Commerce & PG College, Nipani

**K. L. E Society's**  
**G.I. Bagewadi Arts, Science , Commerce & PG College, Nipani**  
**DEPARTMENT OF MATHEMATICS**

**Certificate Course in 'Reasoning & Quantitative Aptitude'**

**2016-17**

**Objectives:**

The Mathematics certificate course is a programme designed to enhance the knowledge of mathematics and strengthen applications to graduate school and the job market. Having a strong background in Mathematics is viewed increasingly as an asset to students seeking entrance to graduate school in most sciences. It is also highly desirable for many employers.

This certificate course does not require any high level mathematics or mastery of proof writing , even a non mathematician also can do it. All under graduates and special students are eligible for a Mathematics certificate course.

**Course Details:**

This is a short term course that requires three months of study, which provides strong quantitative skills to students who are willing to appear for Competitive Exam, Entrance tests for MBA, MCA, TGT, PGT, NET, SET etc. How to solve a mathematical questions is not significant in such exams , most important aspect is to how to solve in a fraction of minute, using short cut methods. This has been taken care in this course. The applied nature of the program implies the fact that how to solve objective type questions by short cut methods.

**Particulars of course:**

**Duration:** 3 months, January 2017 to March 2017.

**Schedule :** 4 Lecture hours weekly, total of 50 class hours.

**Target Audience:** Mainly undergraduate students of all faculty, also postgraduate students and professionals.

**Fees:** Rs.500

**Evaluation:** After two months of starting of course one test for 20 marks will be conducting and final Exam will be conducted at the end of course (objective type question) , and grade will be given according to their performance in final exam.



## Syllabus of Certificate Course

S. No.	Units	No. of hrs.	Weight-age of Marks
01	Reasoning	05	05
02	Calendar	05	03
03	Problems on Ages	05	02
04	Average and Percentage	05	02
05	Profit and Loss	05	02
06	Ratio and proportion	05	02
07	Simple and compound interest	05	02
08	Time and work, time and distance	05	03
09	Problems on trains	05	02
10	Venn diagram based questions	02	01
11	LCM and HCF	03	01

### Detail syllabus of the course:

#### Unit 1: Reasoning (Series completion)

Number series and alphabet series 5 hrs.

#### Unit 2: Calendar

Definitions of ordinary year, leap year, odd day, counting of odd days in a month and a year. Method of calculation of odd days for particular date and finding the day for given date and examples. 5 hrs.

#### Unit 3: Problems on ages

Finding the ages of father, son or daughter under given conditions. 5 hrs.

#### Unit 4: Average and Percentage

Formulae, concept of average and examples. Concept of percentage, Results on population, results on depreciation. 5 hrs.

#### Unit 5: Profit and Loss

Cost price (CP), selling price (SP), profit or gain, loss, formulae and examples. 5 hrs

#### Unit 6: Ratio and proportion

Ratio, proportion, comparison of ratios, compounded ratios, duplicate ratios, sub-duplicate, sub-triplicate ratio, variation. 5 hrs.

#### Unit 7: Simple and compound interest

Principle, interest, simple interest (SI), examples. Compound interest- concept of compound interest, calculation of amount for different periods. 5hrs



### Unit 8: Time and work, Time and distance, pipes and cisterns

Formulae and examples, time and distance. Pipes and cisterns- Concept of Inlet, outlet. 5 hrs.

### Unit 9: Problems on Trains.

Formulae for calculating speed, time ,distance , relative velocity for moving in same and opposite direction and examples. 5 hrs.

### Unit 10: Venn diagram based questions LCM and HCF

5 hrs.

### Reference Books:

- 1) Quantitative Aptitude for competitive examinations- R. S. Aggarwal
- 2) Verbal and nonverbal Reasoning - R. S. Aggarwal
- 3) Objective Arithmetic - R. S. Aggarwal

### Distribution of Syllabus:

S.No.	Name of the teacher	Units allotted	No. of hours
1.	Miss Girija Karaguppi	3 & 10	10
2.	Miss Geeta Kamate	8 & 9	10
3.	Miss Veena Hegde	2 & 5	10
4.	Mr. Sammed Chougale	6	05
5.	Mr. Jinendra Magadum	4 & 7	10
6.	Miss Sonali Patil	1	05
7.	Dr. M. M. Shankrikopp	14	05

### TIME TABLE

DAY	TIME
Wednesday	5.00 pm to 6.00 pm
Saturday	5.00 pm to 6.00 pm
Sunday	10.00 am to 12.00 noon
Weekly 4 hrs	

  
HOD  
Head

Department of Mathematics  
K.L.E's G. I. B. College, Nipani.

  
IOAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
Principal  
G.I. Bag, Nipani, Science &  
Commerce College, NIPANI.





**K. L. E. Society's**  
**G. I. Bagewadi Arts, Science & Commerce College, Nipani**

DEPARTMENT OF MATHEMATICS  
**Certificate Course in Reasoning and  
Quantitative Aptitude**

Final Exam. Marks list 2016-17

R. No.	Name of the students	Class	Marks
01	Praveeni Babannavar	B.Sc II Sem.	07
02	Rani Navale	B.Sc II Sem.	11
03	Tanuja Vaghamode	B.Sc II Sem.	09
04	Bhakti Patil	B.Sc II Sem.	11
05	Aishwarya Khot	B.Sc II Sem.	10
06	Varsha Patil	B.Sc II Sem.	12
07	Shweta Patil	B.Sc II Sem.	09
08	Nikita Jabade	B.Sc II Sem.	07
09	Sangeeta More	B.Sc II Sem.	14
10	Arati Chavan	B.Sc II Sem.	14
11	Miss Sammema Mulla	B.Sc II Sem.	17
12	Anita Hamidwade	B.Sc II Sem.	12
13	Vaishali Adake	B.Sc II Sem.	10
14	Lata Barmal	B.Sc II Sem.	11
15	Vanita Munnole	B.Sc II Sem.	15
16	Sumayya Gajabar	B.Sc II Sem.	16
17	Pallavi Pujari	B.Sc II Sem.	Ab
18	Bhanashree Nagaramunnoli	B.Sc II Sem.	11
19	Varsha Payil	B.Sc II Sem.	09
20	Pallavi Patil	B.Sc II Sem.	07
21	Aiswarya malumallagol	B.Sc II Sem.	11
22	Aiswarya Zele	B.Sc II Sem.	10
23	Aishwarya Dharanagutte	B.Sc II Sem.	06
24	Mayuri Darekar	B.Sc II Sem.	06
25	Shweta Ravannavar	B.Sc II Sem.	09
26	Asha Malagi	B.Sc II Sem.	03
27	Nirmala Dhanghi	B.Sc II Sem.	11
28	Afreen Mujawar	B.Sc II Sem.	12
29	Akshata Dadadavar	B.Sc II Sem.	10
30	Akshata Bilikudure	B.Sc IV Sem.	11
31	Pooja Marabille	B.Sc II Sem.	09
32	Prachi Mayanna	B.Sc II Sem.	07
33	Prajakta Bhore	B.Sc II Sem.	07
34	Priya Patil	B.Sc IV Sem.	04
35	Akshata Patil	B.Sc IV Sem.	10
36	Maduri Hawaldar	B.Sc II Sem.	10



R. No.	Name of the students	Class	Marks
37	Poonam Kamble	B.Sc IV Sem.	09
38	Nikita Payamalle	B.Sc IV Sem.	12
39	Tejaswini Huchchannavar	B.Sc IV Sem.	15
40	Shruti Tasildar	B.Sc II Sem.	05
41	Prateebha Latthe	B.Sc II Sem.	11
42	Amruta R Patil	B.Sc IV Sem.	12
43	Sneha Kage	B.Sc IV Sem.	16
44	Shreemanti Patil	B.Sc IV Sem.	11
45	Vani Bhairshetti	B.Sc IV Sem.	15
46	Pooja Soude	B.Sc IV Sem.	15
47	Shrutika Patil	B.Sc IV Sem.	14
48	Archana Kamate	B.Sc IV Sem.	08
49	Salma Nadaf	B.Sc IV Sem.	Ab
50	Paranjali Potadar	B.Sc II Sem.	10
51	Shubhangi Parit	B.Sc II Sem.	10
52	Shweta S. Jayakar	B.Sc II Sem.	09
53	Vaijayanti Janakare	B.Sc II Sem.	10
54	Virupaksa Mane	B.Sc IV Sem.	11
55	Nikita Madiwal	B.Sc II Sem.	05

  
HOD

Department: Mathematics  
K.L.E's G. I. B. College, Nipani.

  
IOAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
G.I. B. College, Arts, Science &  
Commerce College, NIPANI.



**K. L. E. Society's**  
**G. I. Bagewadi Arts, Science & Commerce College, Nipani**  
**DEPARTMENT OF MATHEMATICS**

Certificate Course in Reasoning and Quantitative Aptitude, Examination - April 2017

Date: 13-04-2017

Answer Sheet

Time: 2.00 pm to 3.00 pm

Name: <u>Sampad A. Mulla</u>
Class: <u>BSC-IT</u> Roll No. <u>126 11</u>

17  
25

Put ✓ mark on correct answer

Q. No.	Answers				Q. No.	Answers			
✓ 1	(a)	(b)	✓(c)	(d)	✓ 11	(a)	(b)	✓(c)	(d)
✓ 2	(a)	✓(b)	(c)	(d)	✓ 12	(a)	✓(b)	(c)	(d)
✓ 3	(a)	✓(b)	(c)	(d)	✓ 13	(a)	(b)	✓(c)	(d)
✓ 4	(a)	(b)	(c)	✓(d)	✓ 14	(a)	(b)	✓(c)	(d)
✓ 5	(a)	(b)	(c)	✓(d)	✓ 15	(a)	✓(b)	(c)	(d)
✓ 6	(a)	(b)	(c)	(d)	✓ 16	(a)	(b)	✓(c)	(d)
✓ 7	(a)	(b)	✓(c)	(d)	✓ 17	✓(a)	(b)	(c)	(d)
✓ 8	(a)	(b)	(c)	✓(d)	✓ 18	(a)	(b)	✓(c)	(d)
✓ 9	(a)	(b)	✓(c)	(d)	✓ 19	✓(a)	(b)	(c)	(d)
✓ 10	(a)	(b)	✓(c)	(d)	✓ 20	(a)	(b)	✓(c)	(d)
Write only answer here in front of question									
✓ 21.	2034				✓ 24.	7.13			
✓ 22.	121				✓ 25.	20			
✓ 23.	Name								

Any Suggestions: \_\_\_\_\_

Signature \_\_\_\_\_







**K.L.E. Society's**  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)

Website: [www.klegibnnpn.org.in](http://www.klegibnnpn.org.in) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in) Ph.: 08338-220116

### REPORT ON CERTIFICATE COURSE FOR THE YEAR 2016-17

Name of the Department	Mathematics	
Name of the Event Organized	Certificate Course	
Title of the Event	Reasoning and Quantitative Aptitude	
Date of introduction of Course & Duration	26/01/2017	48 hours
Name of the Convener	Dr.(Smt). M.M.Shankrikopp	
No of Students Enrolled	55	
Date of Final Exam Conducted	13/04/2017	
No of Students Appeared for Final Exam	35	
Name of the Expert with Designation	Faculty Members	
Objectives of the Event	<ul style="list-style-type: none"> <li>➤ To improve analytical skills</li> <li>➤ Practice for competitive exams</li> </ul>	
Outcome of the Event	<ul style="list-style-type: none"> <li>➤ It helps the students who are appearing for Navy, Army, Air force, SSC, FDA, SDA, exams.</li> <li>➤ Some students got selected for campus interviews, Army and Navy.</li> </ul>	

#### Photo Gallery




Supervision by Sri. Sammed Chougale



Supervision by Miss Veena Hegade

  
**IQAC Coordinator**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
**HOD**  
**Head**  
Department of Mathematics  
K.L.E.'s G. I. B. College, Nipani.

  
**Principal**  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.







ಕೆ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾಣಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲಾ: ಬೆಳಗಾವಿ  
KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

Date 26-12-2016

## NOTICE

### Department of Hindi

The department of Hindi is conducting a Certificate course in Translation in this semester (2016-17) for BA, BSc and BCom students.

The degree students who are willing to join the course informed to meet Prof.Haseena Attar on or before 01<sup>st</sup> January 2017 to join the course.

The details are as follows:

**Course:** Certificate course in Translation (Kannada/English to Hindi).

**Duration:** Three months or 40Hrs

  
H O D

Department of Hindi  
Head

Department of Hindi  
K.L.E's G. I. B. College, Nipani

  
Principal •  
PRINCIPAL

G.I.Bagewadi Arts, Science,  
Commerce & PG College, Nipani



  
PRINCIPAL

G.I.Bagewadi Arts, Science  
& Commerce College, Nipani



**K.L.E.Society's G.I. Bagewadi Arts, Science and Commerce College.  
Nipani**

**Department of Hindi  
Certificate course in Translation  
Admission Form**



- 1. Name of the Student : AMRUTA ANNASAHEB. KHOT
- 2. Class and Gender : BA II<sup>nd</sup> sem Female
- 3. Category : III B
- 4. Address for correspondence : Ram Nivas, shivaji nagar 6<sup>th</sup> lane mal bhag  
Nippani. Tq:- Chikkodi. Dist:- Belgaum.

**Declaration**

I Amruta Annasaheb. khot of Class B.A II<sup>nd</sup> sem Roll no 02

Hereby declare that if I am admitted to this course, I shall abide by all the rules and I am aware that I am eligible for any disciplinary action which might include expulsion from the course for non compliance with the rules that are in force or any other directive issued by the Dept.

Place : Nippani  
Date : 13/01/2017

Akhot  
Signature of the Candidate



[Signature]  
Head  
Department of Hindi  
K.L.E.'s G.I.B Coll  
Paid Rs: 100/-

①

**K.L.E.Society's G.I. Bagewadi Arts, Science and Commerce College,  
Nipani**

**Department of Hindi  
Certificate course in Translation  
Admission Form**



1. Name of the Student : SRUSHTI SURAJ SHAHA
2. Class and Gender : Bcom 2<sup>nd</sup> sem Female
3. Category : III B
4. Address for correspondence : Diwamji Galli, Nipani  
Tal - chikkodi dist. - belgum

**Declaration**

I Srushti Suraj Shaha of Class Bcom Roll no 49  
2<sup>nd</sup> sem

Hereby declare that if I am admitted to this course, I shall abide by all the rules and I am aware that I am eligible for any disciplinary action which might include expulsion from the course for non compliance with the rules that are in force or any other directive issued by the Dept.

Place : Nipani

Date : 13-01-2017

Shah  
Signature of the Candidate



Head  
Department of Hindi  
K.L.E's G.I.B. College  
paid Rs 100/-

## Department of Hindi

### Certificate Course in Translation 2016-17

Sl.No	Roll No	Name of the Student	Class
1	49	Shruti Shaha	B.Com II Sem
2	25	Neha Malage	B.Com II Sem
3	17	Shivani Khandake	B.Com II Sem
4	28	Nikita Murabatte	B.Com II Sem
5	52	Shruti Ammanavar	B.Com II Sem
6	67	Swati Kamble	B.Com II Sem
7	79	Harshal Jadhav	B.Com II Sem
8	44	Sampat Malabade	B.Com II Sem
9	22	Manthan Shintre	B.Com II Sem
10	09	Arihant Patil	B.Com II Sem
11	62	Subhushan Chougule	B.Com II Sem
12	81	Praful Lakshapati	B.Com II Sem
13	71	Tejashwini Hegade	B.Com II Sem
14	56	Siddhart Utture	B.Com II Sem
15	74	Vrushabh Rangole	B.Com II Sem
16	29	Omkar Chopade	B.Com II Sem
17	50	Shrishail Murdande	B.Com II Sem
18	13	Pooja Belaskar	B.A.II Sem
19	02	Amruta Khot	B.A.II Sem
20	25	Rohini Patil	B.A.II Sem
21	20	Praveena Chougale	B.A.II Sem
22	18	Prathamesh Patil	B.A.II Sem

  
HOD

Head  
Department of Hindi  
K.L.E's G. I. B. College, Nipani.



  
Principal

PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science  
& Commerce College, Nipani

**K.L.E. Society**  
**G.I. Bagewadi College of Arts, Science and Commerce and P.G. College**  
**NIPANI-591 237**

**DEPARTMENT OF HINDI.**  
**CERTIFICATE COURSE IN TRANSLATION**  
**(ENGLISH – KANNADA – HINDI)**  
**Duration of the Course – 40 Hours in 4 months SEMESTER.**

**Eligibility :** Arts, Science and Commerce Degree Students.  
**Course Fees :** Rs. 100/-.

**COURSE CONTENT :**

- UNIT I :**
- 1.1 अनुवाद की परिभाषा ।
  - 1.2 अनुवाद का प्रयोजन ।
  - 1.3 अनुवाद की सीमाएँ ।
- UNIT 2 :**
- 2.1 अनुवादक के गुण ।
  - 2.2 अनुवाद के भेद ।  
साहित्यिक विधा के आधार पर ।
  - 2.3 अनुवाद के प्रकार ।
  - 2.4 अनुवाद की प्रकृती ।
  - 2.5 भाषिक आधार पर ।
- UNIT 3 :**
- 3.1 कन्नड से हिन्दी अनुवाद की समस्याएँ एवं समाधान ।
  - 3.2 अंग्रेजी से हिन्दी अनुवाद की समस्याएँ एवं समाधान।
  - 3.3 हिन्दी से कन्नड एवं हिन्दी से अंग्रेजी अनुवाद की समस्याएँ एवं समाधान।
- UNIT 4 :**
- 4.1 साहित्यिक विधा के आधारपर अनुवाद ।
  - 4.2 गद्यानुवाद, पद्यानुवाद ।
  - 4.3 बँकींग अनुवाद ।
  - 4.4 वैज्ञानिक अनुवाद ।
  - 4.5 साहित्येतर अनुवाद ।
- UNIT 5 :**
- 5.1 अनुवाद के क्षेत्र में अब तक की गतिविधियों का पुनर्शीलन ।



  
**PRINCIPAL**  
**G.I. Bagewadi Arts, Science**  
**& Commerce College, Nipani**

ಕವಿಲ್ಯಾಸಂಸ್ಥೆಯ

ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,

ನಿಪಾನಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲಾ : ಬೆಳಗಾವಿ

KLE Society's

G. I. Bagewadi Arts, Science, Commerce & P. G. College,

Nipani - 591237 Dist : Belgaum

Ref : No.

Date : 2/01/2017

## Department of Hindi

Self financed Certificate course in Translation 2016-17

(Kannada, English to Hindi)

### Time table

Time	9.15	10.30	11.30	12.30	2	3	4
Monday							
Tuesday							
Wednesday	Cert course						
Thursday	Cert course						
Friday							
Saturday							Cert course

  
HOD

Head

Department of Hindi  
K.L.E's G. I. B. College, Nipani.



  
Principal  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.

  
PRINCIPAL  
G.I. Bagewadi Arts, Science  
& Commerce College, Nipani

ಕ.ಎಲ್.ಇ.ಸಂಸ್ಥೆಯ  
ಜಿ. ಆರ್. ಬಾಗೇವಾಡಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಮತ್ತು ಪಿ.ಜಿ. ಕಾಲೇಜು,  
ನಿಪಾಣಿ - ೫೯೧೨೩೭ ಜಿಲ್ಲಾ : ಬೆಳಗಾವಿ

KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum

Ref : No.

Date : 08-02-2017

**Self Financed Certificate Course in Translation**  
**Kannada, English to Hindi: 2015-16**

Class	Duration	Total Hours	Girls	Boys	Total Strength	Fee
DEGREE	3 MONTHS	36	11	11	22	Rs.100

  
H O D

Head  
Department of Hindi  
KLE's G. I. B. College, Nipani.

  
Principal

PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.

  
PRINCIPAL  
G.I.Bagewadi Arts, Science  
& Commerce College, Nipani



code : BAHNC<sub>1</sub> - 2016-17  
BAHNC<sub>1</sub> - 2017-18  
BAHNC<sub>1</sub> - 2018-19

# Self financed certificate course in Translation – English/Kannada to Hindi



Year	Duration	Strength	Fees
2016-17	03 months	16	100/-
2017-18	03 months	42	100/-
2018-19	03 months	25	100/-

male - 8  
Female - 17

**Department of Hindi**  
**Certificate Course in Translation 2016-17**

**Marks Sheet**

Sl.No.	Roll No	Name of the Student	Marks
1	49	Shruti Shaha	39
2	25	Neha Malage	39
3	17	Shivani Khandake	39
4	28	Nikita Marubatte	39
5	52	Shruti Ammanavar	39
6	67	Swati Kamble	39
7	79	Harshal Jadhav	39
8	44	Sampat Malabade	39
9	22	Manthan Shintre	39
10	09	Arihant Patil	39
11	62	Subhushan Chougule	39
12	81	Praful Lakshapti	39
13	71	Tejashwini Hegade	40
14	56	Siddhart Utture	39
15	74	Vrushabh Rangole	39
16	29	Omkar Chopade	38
17	50	Shrishail Murdande	38
18	13	Pooja Belaskar	39
19	02	Amruta Khot	39
20	25	Rohini Patil	39
21	<del>20</del>	Praveena Chougale	39
22	18	Prathamesh Patil	38

HOD

Department of Hindi

Department of Hindi

K.L.E's G. I. B. College, Nipani.



*M. Botdale*  
Principal  
PRINCIPAL

G.I. Bagewadi Arts, Science,  
& Commerce & PG College, Nipani

PRINCIPAL

G.I. Bagewadi Arts, Science  
& Commerce College, Nipani

KLE Society's  
G. I. Bagewadi Arts, Science, Commerce & P. G. College,  
Nipani - 591237 Dist : Belgaum  
Department of Hindi - Certificate course in Translation  
Kannada, English to Hindi 2016-17

Duration: 60mnts

Marks: 40

I. इन प्रश्नों का उत्तर लिखिए ।

1x10=10

१. अनुवाद की पहली आवश्यकता ..... है ।  
अ) योग्य शब्द आ) शब्द संचय इ) उचित शब्द भंडार
२. अनुवाद आज के युग की एक ..... आवश्यकता है ।  
अ) युग की जरूरत आ) बहुत इ) अनिवार्य
३. किसी एक भाषा का विषय दूसरी भाषा में ..... अनुवाद है ।  
अ) रूपांतर आ) परिवर्तन इ) बदलाव
४. भाषाविद नायडा के अनुसार अनुवाद के ..... स्वरूप है ।  
अ) एक आ) दो इ) तीन
५. संस्कृत में ..... के रूप में ही अनुवाद को परिभाषित किया है ।  
अ) रिट्हीजन आ) पुनकथन इ) भाषांतर
६. बातचीत, पत्राचार और धर्म में ..... का बहुत महत्व है ।  
अ) भाषांतर आ) रूपांतर इ) अनुवाद
७. शिक्षा का क्षेत्र ..... के बिना आगे नहीं बढ़ता ।  
अ) शब्द आ) वाक्य इ) अनुवाद
८. अंतरराष्ट्रीय स्तर पर विज्ञान तथा तकनीकी क्षेत्र में अनुवाद ..... हो गया है ।  
अ) आवश्यक आ) जरूरत इ) योग्यता सूचक
९. .... आदि संचार माध्यमों में अनुवाद अनिवार्य हो गया है ।  
अ) रेडियो, दूरदर्शन, समाचार पत्र आ) व्यवसाय में इ) व्यापार वृद्धि में
१०. अनुवाद के लिए महत्वपूर्ण क्षेत्र ..... है ।  
अ) कविता आ) नाटक इ) साहित्य

II. किन्हीं दो प्रश्नों का उत्तर लिखिए ।

2x5=10

११. अनुवाद की परिभाषा लिखिए ।
१२. गद्य-पद्य के आधार पर अनुवाद के प्रकार लिखिए ।
१३. अनुवाद संबंधी समस्याओं के समाधान लिखिए ।

III. हिंदी में अनुवाद कीजिए ।

1x20=20

We are also told that Ajatashatru fortified his capital Rajagriha, in expectation of an attack about to be made by the king of Pradyala of Ujjani. It would be most interesting to know whether the attack was ever made, and what measure of success it had. We know that afterwards in the fourth century B.C. Ujjani had become subject to Magadha and the Ashoka then a young man was appointed governor of Ujjani.



K.L.E. Society's

**G. I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,**  
**NIPANI - 591 237.**



(Re-accredited at 'A' Level by NAAC with CGPA 3.254)

**EXAMINATION**

Class : B.COM. I. year.

Subject : Hindi.

Roll No. : 56.

Date : 25/04/17.

Marks Scored :  $\frac{39}{40}$

Test : Final Exam.

Signature of Valuer

Signature of the Invigilator with date

- I.
- 1) ड) उचित शब्द भंडार
  - 2) इ) अनिवार्य
  - 3) अ) रूपांतर
  - 4) इ) तीन
  - 5) आ) पुनर्जनन
  - 6) इ) अनुवाद
  - 7) इ) अनुवाद
  - 8) आ) आवश्यक
  - 9) अ) रेडियों, दूरदर्शन, समाचार पत्र.
  - 10) इ) साहित्य.



11)

11)

## अनुवाद की परीभाषा

1) डॉ. अरुण शर्मा :- "हमारे अर्थ विचार में भाषा का गुण है। किसी भी स्रोत भाषा के पाठ का अर्थ अपना होता है। और लक्ष्य भाषा के पाठ का अर्थ भी अपना होता है।"

5

2) डॉ. अरुण शर्मा :- "मूल लेखक का अनुसरण करना अवैतनिक है। ओके 'शाब्दिक' अर्थ, उसी के साथ उठा।"

13] अनुवाद संबंधी समस्याओं के समाधान

हिन्दी अनुवाद के विकास में बाधक कुछ निम्न समाधान - मुद्रांतर पर सही विचार किया जाय तो अभाव : अनुवाद विश्वसनीय और अजस्रित होगा। गोपनीय बातों और समस्या-समय पर होनेवाले आयोजनों - बँकों में अनुवाद को अनुवाद के प्रयोग में सही माद खराद पर चकाया जाना चाहिए।

भारतक स्थानीय, वैश्व या बोलचाल की शब्दावली का प्रयोग हो तो यह काम मना चारामा। सो, अनुवादों के प्रति लोगों के अज्ञान सब-चाव में वृद्धि होगी।

III.

अनुवाद - यह भी कहा जाता है, की उज्जयिनी के राजा प्रद्युम्न द्वारा आक्रमण होने की आशाका से अजात शत्रु ने अपनी राजधानी राजगृह को द्वारा सुरक्षित किया। यह आक्रमण कभी हुआ था नहीं और इसमें कितनी सफलता प्राप्त हुई। इसे यह विदित है, की पीछे चतुर्थ शताब्दी में उज्जयिनी मगध के आधीन है। चली या और अशोक अपनी युगावस्था में उज्जयिनी का शासक नियुक्त हुआ है। किन्तु किन्त-किन्त मध्यवर्ती घटना - चक्रों के द्वारा सुरक्षित अवस्था आई। यह हमें कुछ भी मालूम नहीं है।

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(Re-accredited at 'A' Level by NAAC with CGPA 3.254)

## EXAMINATION

Class : B A II sem

Subject : Hindi

Roll No. : 18

Date : 25/04/2027

Marks Scored : 38

Test : Final Exam

Signature of Valuer

Signature of the Invigilator with date

1) इ) अजित रघु भंडार

2) इ) अनितार्थ

3) अ) कृपांतर

4) इ) तीन

5) अ) पुनर्करण

6) इ) अनुवाद

10 7) इ) अनुवाद

8) अ) आवश्यक

9) अ) रेडियो, दूरदर्शन, समाचार पत्र

10) इ) साहित्य

II)

11) अनुवाद की परिभाषा लिखिए।  
 नाट्टा :- अनुवाद का संबंध  
 मूल भाषा के शब्दों के पढ़ने और  
 फिर दूसरी के समानक पर मूल भाषा  
 के लक्षणात्मक, स्वभाविक तथा पुनर्माथिक



अपवाद प्रस्तुत करने से होता है।

5) कोरेन: "एक भाषा में अभिव्यक्त पाठ के रक्षा करते हुए - जो शब्द संभव नहीं होता - दूसरी भाषा में अंतर का नाम अनुवाद है।"

13)

हिंदी अनुवाद के विकास में बाधक कुछ निम्न समाधान - सुझावों पर यदि विचार किया जाय तो संभवतः अनुवाद विश्वसनीय और ऊर्जावान होगा। अनुवाद कर्म के प्रति आस्था पैदा करने के लिए सर्वप्रथम अपने देश में अनुवाद संबंधी प्राशिक्षण - केन्द्रों और प्रयोगशालाओं - बंधकों में अनुवाद को 'अनुवाद कर्म' के प्रयोग की शब्द पर चर्चा करना चाहिए। अगली बात यह कि विदेशी कृतियों के अनुवाद के पक्ष में कठिन शब्दों के प्रयोग से बचना चाहिए। अशुभक शब्दावली, देशी भाषा विलक्षण की शब्दावली का प्रयोग नहीं होना चाहिए, अतः माना जायगा। ऐसे अनुवादों के प्रति लोगों के अज्ञान एवं चेतन में वृद्धि होनी।

5) वस्तुतः संभव अनुवाद के नाम पर पर कठिन शब्दावली अनुवादको को दबाए जाय। अपने अर्थों से बंधक शब्दों के लिए उपयुक्त शब्दों की खोज होनी। दूसरे अनुवाद के विरुद्ध मीडिया के माध्यम से। यह अनुवाद प्रसारणिक और महत्वपूर्ण नहीं रहे जायेगा।



III)

अजमेरी यह भी कहा जाता है कि  
अजमेरी के राजा प्रधान प्रधान द्वारा  
आक्रमण होने का आशंका से अजातशत्रु  
ने अपनी राजधानी राजगुरु का द्वारा  
सुरक्षा किभा यह आक्रमण कभी  
हुआ था नहीं और इसमें कितनी  
सफलता प्राप्त हुई यह जानने अजमेरी  
की मनोरंजक होता है। हम यह कहते हैं  
कि यदि चतुर्थ शताब्दी (इ.स. 400) के  
पूर्व में अजमेरी का राजिक विकास हुआ  
था किन्तु किन्तु किन्तु किन्तु किन्तु  
चक्रों के द्वारा प्रसारित आने-या आने  
यह हमें कुछ भी मान्य नहीं है।

18



KLE Society's

# G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE, NIPANI

Department of Hindi



Certificate Code - BAHNC-2016-17

## Certificate

This is to Certify that Mr/Ms Tejashwini Hegade  
of \_\_\_\_\_ has Completed "Certificate Course in  
Translation (English - Kannada to Hindi)" During The Year 20 ~~16~~ 20 17

  
Head of Department



  
Principal



K.L.E. Society's  
G.I. Bagewadi Arts, Science and Commerce College, Nipani-  
591237


Accredited at 'A' level by NAAC with CGPA 3.35  
(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)  
Website: [www.kleibnnpn.edu.in](http://www.kleibnnpn.edu.in) E-mail: [klegibnnpn@yahoo.co.in](mailto:klegibnnpn@yahoo.co.in) Ph.: 08338-220116

DATE -28/5/2016

## DEPARTMENT OF HINDI

### REPORT ON CERTIFICATE COURSE

Department of Hindi has organized 3 months Certificate course on translation. In this course students did translation from English/ Kannada to Hindi. for B.A., B.Sc., B.Com. Students of our College. This course helped the students to improve their writing skills as well as communication skills. During 2016-17 year 17 students were benefited. And this Certificate course classes conducted by Prof. Smt. Sunita Hunnaragi

  
IQAC CO-ORDINATER  
IQAC Co-ordinator  
K.L.E's G. I. B. College, Nipani.

  
HOD  
Head  
Department of Hindi  
K.L.E's G. I. B. College

  
PRINCIPAL  
PRINCIPAL  
G.I. Bagewadi Arts, Science  
& Commerce College, Nipani



V 6



## **CERTIFICATE COURSE IN HUMAN RIGHTS**

**Department of Political Science**

**KLES'**

**G.I. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE, NIPANI**

**2016 – 2017**





K.L.E. Society's  
**G. I. Bagewadi Arts, Science and Commerce College,**  
**Nipani 591237 Karnataka**  
**Accredited at 'A' level by NAAC with CGPA 3.35**



Date:24/12/2016

## NOTICE

### Department of Political Science

All the Degree Students are hereby informed that Department of Political Science is conducting Self-financed certificate course in Human Rights for the year of 2016-17.

The course duration is three months and the registration fees is Rs.50/-. Interested students can enroll their names with Shri S. S. Ghorpade.

H.O.D  
Department of Political Science  
K.L.E's G.I.B. College, Nipani.

PRINCIPAL  
K.L.E. Society's  
G. I. Bagewadi College, Nipani.



**K.L.E. Society's**  
**G. I. Bagewadi Arts, Science and Commerce College,**  
**Nipani 591237 Karnataka**  
**Accredited at 'A' level by NAAC with CGPA 3.35**



## DEPARTMENT OF POLITICAL SCIENCE

**Application form for admission to Certificate Course in**  
**“ Human Rights”**  
**2016-17**

To,  
The Head  
Department of Political Science.

### PARTICULARS OF APPLICANT

1. Full Name of the Applicant : Ms. A. G. Karnate.
2. Class : B.Sc. II sem.
3. Category : III - B.
4. Gender : Female
5. Address for correspondence: Alp - Nipani  
Tal - Nipani
6. Contact Number : \_\_\_\_\_

*A. Karnate*  
Signature of Applicant



## Department of Political Science


### Certificate Course in Human Rights 2016-17

Registration fees: Rs.50/-

#### LIST OF STUDENTS

S.L.No	Name of the student	Class
1	Miss A. G. Kamate	BSC. II Sem
2	Miss J A Chavan	BSC. II Sem
3	Miss. J S Halkarni	BSC. II Sem
4	Miss S B Patil	BSC. II Sem
5	Miss A C Hukkeri	BSC. II Sem
6	Miss P S Yadav	BSC. II Sem
7	Miss S A Patil	BSC. II Sem
8	Miss M S Hawaldar	BSC. II Sem
9	Miss L M Awate	BSC. II Sem
10	Miss R D Khot	BSC. II Sem
11	Miss P B Patil	BSC. II Sem
12	Miss A A Magadum	BSC. II Sem
13	Miss N N Patil	BSC. II Sem
14	Miss R L Chougule	BSC. II Sem
15	Miss S M Naik	BSC. II Sem
16	Miss V B Jabade	BSC. II Sem
17	Miss V B Kenawade	BSC. II Sem
18	Miss U M Mulla	BSC. II Sem
19	Miss A B Burji	BSC. II Sem
20	Miss K R Kumbar	BSC. II Sem
21	Miss V S Bhairsheti	BSC. II Sem
22	Miss K S Halkarni	BSC. II Sem
23	Miss S S Powar	B A VI Sem
24	Miss A S Karade	B A VI Sem
25	Miss A D Sanadi	B A VI Sem
26	Miss S B Chikkode	B A VI Sem
27	Miss S S Bhosale	B A VI Sem
28	Miss V N Magadum	B A VI Sem
29	Mr P U Hiremat	B A VI Sem
30	Mr K N Kage	B A VI Sem

  
Convener

  
HOD  
Department of Political Science  
K.L.E's G.I.B. College, Nipani.



# **CERTIFICATE COURSE IN HUMAN RIGHTS**

## **CONTENTS**

**Unit 1: Social Discrimination between Men and Women**

**Unit 2: Protection of Human Rights**

**Unit 3: Human Rights and Indian Constitution**

**Unit 4: Legislation on Human Rights**

**Unit 5: Field Activities**

**I. Hotels,**

**II. Small Scale industries,**

**III. Slums,**

**IV. Old age homes,**

**V. Police Stations**



**Department of Political Science**  
**Certificate Course in Human Rights 2016-17**

**TIME - TABLE**

**Class: B.A/ B.Sc – II Semester**

<b>Days</b>	<b>9.15 to 10.15</b>	<b>10.30 to 11.30</b>	<b>11.30 to 12.30</b>	<b>12.30 to 1.30</b>	<b>2.00 to 3.00</b>	<b>3.00 to 4.00</b>	<b>4.00 to 5.00</b>
Monday	H.R						
Tuesday							
Wednesday							
Thursday							H.R
Friday							H.R
Saturday						H.R	

**HOD**

Department of Political Science  
K.L.E's G.I.B. College, Nipani.

**PRINCIPAL**

K.L.E. Society's  
G. I. Bagewadi College, Nipani.



**Department of Political Science**  
**Certificate Course in Human Rights 2016-17**



**Result Sheet**

Date : 23/03/2017

S.L.No	Name of the student	Class	Marks ( out of 40)
1	Miss A. G. Kamate	BSC. II Sem	38 ✓
2	Miss J A Chavan	BSC. II Sem	36
3	Miss. J S Halkarni	BSC. II Sem	34
4	Miss S B Patil	BSC. II Sem	32
5	Miss A C Hukkeri	BSC. II Sem	38
6	Miss P S Yadav	BSC. II Sem	36
7	Miss S A Patil	BSC. II Sem	34
8	Miss M S Hawaldar	BSC. II Sem	38
9	Miss L M Awate	BSC. II Sem	38
10	Miss R D Khot	BSC. II Sem	38
11	Miss P B Patil	BSC. II Sem	36
12	Miss A A Magadum	BSC. II Sem	36
13	Miss N N Patil	BSC. II Sem	38
14	Miss R L Chougule	BSC. II Sem	30
15	Miss S M Naik	BSC. II Sem	32
16	Miss V B Jabade	BSC. II Sem	34
17	Miss V B Kenawade	BSC. II Sem	38
18	Miss U M Mulla	BSC. II Sem	40
19	Miss A B Burji	BSC. II Sem	38
20	Miss K R Kumbar	BSC. II Sem	36
21	Miss V S Bhairsheti	BSC. II Sem	34
22	Miss K S Halkarni	BSC. II Sem	32
23	Miss S S Powar	B A VI Sem	30
24	Miss A S Karade	B A VI Sem	36
25	Miss A D Sanadi	B A VI Sem	34
26	Miss S B Chikkode	B A VI Sem	32
27	Miss S S Bhosale	B A VI Sem	30
28	Miss V N Magadum	B A VI Sem	28
29	Mr P U Hiremat	B A VI Sem	30
30	Mr K N Kage	B A VI Sem	32

  
**Convener**

  
**HOD**  
Department of Political Science  
K.L.E's G.I.B. College, Nipani.



K. L. E. Society's  
G.I. Bagewadi Arts, Science & Commerce College, Nipani

DEPARTMENT OF POLITICAL SCIENCE  
Certificate Course in Human Rights

Subject: Human Rights  
Class: B.Sc- II Sem / B.A VI Sem

Marks: 40  
Roll No:

- 38 2  
40 2
- 1) The Universal Declaration of Human rights was adopted by the U N In the year  
A) 1946 O B) 1945 O C) 1948 ● D) 1947 O
  - 2) Who was the chairman of Universal Declaration of Human Rights?  
A) Smt. Abraham Lincoln O B) Smt. Anna Eleanor Roosevelt ● C) Smt. Richard Nixon O  
D) George Washington O
  - 3) Who fought for the abolition of slavery in America?  
A) George Washington O B) Thomas Jefferson O C) Richard Nixon O D) Abraham Lincoln ●
  - 4) American woman was deprived to cast her vote until  
A) 1920 ● B) 1940 O C) 1960 O D) 1789 O
  - 5) The World Conference on Human Rights was held in 1993. It was organized in.....  
A) Vienna of Austria ● B) Paris of France O C) Delhi of India O D) None of these O
  - 6) Human Rights are concerned to people of  
A) Hindu Religion O B) Muslim Religion O C) Christian Religion O D) All Religions ●
  - 7) Human Rights are best protected in .....  
A) Democratic countries ● B) Communism O C) Dictatorship O D) Monarchy O
  - 8) When there is threat to nation's integrity and when there is emergency, human rights are....  
A) Properly protected O B) Curtailed ● C) Human rights are given to citizens O D) None of these O
  - 9) Article 352 of the Indian Constitution is related with .....  
A) State Emergency O B) National Emergency ● C) Economic emergency O D) None of these O
  - 10) Who proposed the notion of three generation of human rights?  
A) Carrel Vasek ● B) Roman Jurist O C) Hindu Philosopher O D) None of these O
  - 11) Which is Economic Right?  
A) Right to Equality O B) Right to Press O C) Right to Work ● D) Right to Vote O
  - 12) Which is vulnerable group?  
A) Citizens O B) Women & Children ● C) Men O D) Aristocrats O
  - 13) UNO established Women's Rights Commission in .....  
A) 1947 ● B) 1957 O C) 1967 O D) None of these O
  - 14) National Commission for Women was set up in.....  
A) 1990 ● B) 1980 O C) 1970 O D) None of these O
  - 15) Mention the legislation that gave women right over ancestral property is .....  
A) Hindu Succession Act of 1956 ● B) Hindu Property Act O C) Parental property Act O  
D) None of these O
  - 16) In a country who are numerically few from the viewpoint of culture, language, religion, & ethnicity are called.....  
A) Minorities ● B) Majority O C) Indigenous people O D) None of these O
  - 17) First country to give attention to the rights of minorities for the first time in 1849 is .....  
A) India O B) France O C) Hungary ● D) America O
  - 18) Right to Nationality is mentioned in .....  
A) Article 5 to 11 ● B) Article 14 O C) Article 25 O D) None of these O
  - 19) National Human Rights commission of India started its work in the year.....  
A) 1996 O B) 1993 O C) 1986 ● D) 1947 O
  - 20) The main function /s of NHRC is /are .....  
A) To inquire into the violations of human rights in india O  
B) Visiting the jails to examine the treatment of jail inmates O  
C) To review the safe guards provided by the constitution O  
D) All these ●



KLE Society's

**G. I. Bagewadi Arts, Science and Commerce College**

**Nipani-591237**

**(Reaccredited by NAAC at 'A' level with CGPA 3.254)**

**CERTIFICATE**

**DEPARTMENT OF POLITICAL SCIENCE**

*This is to certify that Mr./Miss* A. G. Kamate  
*Of* B.Sc. II *Semester has successfully completed a certificate course in*  
*Human Rights during the year 2016-17*

  
Head

**Department of Political Science**

H.O.D.

Department of Political Science  
K.L.E's G.I.B. College, Nipani.

  
PRINCIPAL

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K.L.E. Society's  
G. I. Bagewadi College, Nipani.



Ph: 08338-220116, 220416

Website: [www.klegibcollege.com](http://www.klegibcollege.com)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

## DEPARTMENT OF BOTANY

Ref.- GIBN/Bot/CC/Hort-1

Date: 2.08.2016

### NOTICE

Department of Botany is introducing a “**Certificate Course in Horticultural techniques**” in the month of September 2016. The interested students can enroll their names to Smt. J.R.Tikke on or before **20<sup>th</sup> August 2016**.

HOD  
Head

Department of Botany  
K.L.E's G. I. B. College, Nipani.

PRINCIPAL  
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G.I. Bagewadi Arts, Science,  
Commerce & PG College, Nipani



K.L.E.Society's

## G.I.Bagewadi Arts, Science &amp; Commerce College Nipani

DEPARTMENT OF BOTANY (Horticulture)

## List of students enrolled for Certificate Course 2017

Sl.No.	Roll.No	Name
1	66	Abhishek Sultannavar
2	67	Vishal Awati
3	68	Balakrishna Patil
4	69	Awadhut Chinchane
5	70	Chinmay Kulkarni
6	81	Praveen Batte
7	84	Ranjit Punde
8	86	Sachin Kulkarni
9	87	Sagar Sangane
10	91	Shekhar Jole
11	92	Shivanand Shendre
12	95	Suraj Patil
13	96	Suraj K Patil
14	98	Vivek Chavan
15	71	Fareen Jamadar
16	72	Saniya Jamadar
17	73	Suhasini Kadam
18	74	Keerti Patil
19	75	Tejaswini Kondekar
20	76	Komal Mahajan
21	77	Nisha Magadum
22	78	Rutuja Patil
23	79	Shweta Patil
24	80	Pooja Lukk
25	82	Priyanka Shinde
26	83	Priyanka Kamate
27	85	Rohini Patil
28	88	Sanmati Mekkalike
29	89	Nikita Savant
30	90	Sheetal Shirole
31	93	Sujata Magadum
32	94	Sujata Kumber
33	97	Swati Sankapal
34	99	Preeti Yadav
35	100	Deepika Hullikoppe

K.L.E's G. I. B. College, Nipani.  
Department of Botany

Head



Head

Department of Botany  
K.L.E.'s G. I. B. College, Nipani.

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& Commerce College, Nipani



## DEPARTMENT OF BOTANY

### Certificate Course in Horticultural techniques

#### Introduction:

**Horticulture** is the branch of agriculture that deals with the art, science, technology, and business of growing plants. It includes the cultivation of medicinal plants, fruits, vegetables, nuts, seeds, herbs, sprouts, mushrooms, algae, flowers, seaweeds and non-food crops such as grass and ornamental trees and plants. It also includes plant conservation, landscape restoration, landscape and garden design, construction, and maintenance, and arboriculture. Inside agriculture, horticulture contrasts with extensive field farming as well as animal husbandry

#### Programme Objective:

Through Horticulture one can apply their knowledge, skills, and technologies used to grow intensively produced plants for human food and non-food uses and for personal or social needs.

They can work to propagate plants and cultivate them with the aim of improving plant growth, yields, quality, nutritional value, and resistance to insects, diseases, and environmental stresses.

It makes people to work as gardeners, growers, therapists, designers, and technical advisors in the food and non-food sectors of horticulture. Horticulture even refers to the growing of plants in a field or garden.

**Course Duration:** Three Months (30 hrs theory + 10 hrs practical= 40 hours)

**Eligibility:** SSLC/PUC/ to read and write



  
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G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237

Re-accredited at 'A' level by NAAC with CGPA 3.35]

Website: [www.klegibcollege.com](http://www.klegibcollege.com)

E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

## DEPARTMENT OF BOTANY

### Syllabus of the Course:

**Unit 1:** 8 hrs

- Methods of Propagation: Natural and Artificial
- Landscaping- means of plant resources conservation

**Unit 2: Green House technology:** 8 hrs

- Introduction , advantages and limitations
- Types and structure.
- As applied to ornamental, vegetable, fruit and medicinal plants

**Unit 3: Harvest Technology:** 8 hrs

- Management of Flowers and fruits
- Artificial ripening
- Post harvest technology

**Unit 4: Weed Management:** 6 hrs

- Invasive weeds
- Weed control

**Practicals:** 2 hrs each

6. Tools used in horticulture
7. Study of methods of vegetative propagation
8. Bonsai techniques
9. Flower arrangement
10. Vegetable carving

**Fee structure: Rs. 300/-**

**CONVENER: Prof. (smt) S.B.Patil<sub>H.O.D.</sub>**

**RESOURCE PERSONS: Prof. Smt. Jayashree .Tikke**

**Prof. Smt. Shilpa Sunnal**



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E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

## DEPARTMENT OF BOTANY

### EVALUATION METHOD:

- Theory: One paper of one and half hrs duration for 30 marks
- Practical: 1 hour duration for 20 marks

### REFERENCE:

- Text Book of Horticulture- K. Manibhushan Rao,- Macmillan India Ltd.
- Introduction to Horticulture- N.Kumar, 1<sup>st</sup> edn., Rajalaksmi Publication, 1996
- C.R. Adams, *Principles of Horticulture* Butterworth-Heinemann; 5th edition (11 Aug 2008), ISBN 0-7506-8694-4
- <https://www.rhs.org.uk/>

  
HOD  
Head

Department of Botany  
K.L.E's G. I. B. College, Nipani.

  
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E-mail: [klegib\\_npu@yahoo.co.in](mailto:klegib_npu@yahoo.co.in)

## DEPARTMENT OF BOTANY

### Distribution of Syllabus for Certificate course

**Prof. Smt. Jayashree. Tikke**

**Unit 1:** 8 hrs

- Methods of Propagation: Natural and Artificial
- Landscaping- means of plant resources conservation

**Unit 2: Green House technology:** 8 hrs

- Introduction , advantages and limitations
- Types and structure.
- As applied to ornamental, vegetable, fruit and medicinal plants

**Prof. Smt. Shilpa Suanal**

**Unit 3: Harvest Technology :** 8 hrs

- Management of Flowers and fruits
- Artificial ripening
- Post harvest technology

**Unit 4: Weed Management:** 6 hrs

- Invasive weeds
- Weed control



  
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E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

## DEPARTMENT OF BOTANY

### TIME-TABLE

#### CERTIFICATE COURSE IN HORTICULTURAL TECHNIQUES

On every Sunday two classes of one and half hour duration.

On alternate Sundays two hours practical

Day / Time	10 am-11.30am	11.30am-1.00pm	1.30pm-3.30pm
1 <sup>st</sup> Sunday	Theory	Theory	-
2 <sup>nd</sup> Sunday	Theory	Theory	Practical
3 <sup>rd</sup> Sunday	Theory	Theory	-
4 <sup>th</sup> Sunday	Theory	Theory	Practical

Effective from September 2016

  
**HOD**  
Head

Department of Botany  
K.L.E's G. I. B. College, Nipani.

  
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G.I.Bagewadi Arts, Science & Commerce College Nipani  
DEPARTMENT OF BOTANY

Mark List of students enrolled for Certificate Course 2017

Sl.No.	Roll.No	Name	Marks Obtained	
			Theory	Practical
1	66	Abhishek Sultannavar	27	nil
2	67	Vishal Awati	27	nil
3	68	Balakrishna Patil	27	nil
4	69	Avadhut Chinchane	Ab	nil
5	70	Chinmay Kulkarni	26	nil
6	81	Praveen Batte	28	nil
7	84	Ranjit Punde	27	nil
8	86	Sachin Kulkarni	Ab	nil
9	87	Sagar Sangane	26	nil
10	91	Shekhar Jole	27	nil
11	92	Shivanand Shendre	26	nil
12	95	Suraj Patil	27	nil
13	96	Suraj K Patil	25	nil
14	98	Vivek Chavan	26	nil
15	71	Fareen Jamadar	30	10
16	72	Saniya Jamadar	24	10
17	73	Suhasini Kadam	24	10
18	74	Keerti Patil	26	10
19	75	Tejaswini Kondekar	25	10
20	76	Komal Mahajan	ab	10
21	77	Nisha Magadum	24	10
22	78	Rutuja Patil	26	10
23	79	Shweta Patil	27	10
24	80	Pooja Lukk	26	19
25	82	Priyanka Shinde	ab	19
26	83	Priyanka Kamate	26	19
27	85	Rohini Patil	25	19
28	88	Sanmati Mekkali	26	19
29	89	Nikita Savant	26	16
30	90	Sheetal Shirole	27	19
31	93	Sujata Magadum	29	19
32	94	Sujata Kumbhar	29	10
33	97	Swati Sankapal	ab	10
34	99	Preeti Yadav	29	19
35	100	Deepika Hullikoppe	28	19



  
 Head  
 Department of Botany  
 K.L.E.'s G. I. B. College, Nipani.

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K.L.E.Society's  
G.I.Bagewadi Arts, Science and Commerce College, Nipani  
Certificate Course Examination 2016-17  
**Horticultural techniques**

Time: 90 minutes

Marks : 30

All Questions carry equal marks

30 X 1= 30

Tick only one correct Answer

1. Nagpur mandarin is propagated by which plant propagation technique?

- (a). Air Layering.
- (b). T budding.
- (c). Patch budding.
- ✓(d). Micro budding.

2. Virus free micro grafts in citrus is possible with?

- (a). Meristem.
- (b). Ring budding.
- ✓(c). Shoot-tip grafting.
- (d). In arching.

3. Which is best root stock considering disease free tomato?

- ✓(a). *Solanum nigrum*.
- (b). *Solanum Americanum*.
- (c). *Solanum mammosum*.
- ✓(d). *Solanum melangena*.

4. Growing ornamentals in window box is known as?

- (a). Square box gardening.
- ✓(b). Window gardening.
- (c). Home gardening.
- (d). All are alternatives to each other.

5. Extended form of arch is known as?

- ✓(a). Pergola.
- (b). Arches.
- (c). Trellis.
- (d). Edge.

6. Roshanara Garden in Delhi is an example of?

- ✓(a). Mughal garden.
- (b). Japanese garden.
- (c). English garden.
- (d). Free style garden.



7. Biologically, mango hopper can be controlled by?

- (a). *Pseudomonas*.
- (b). *Bacillus thuringiensis*.
- ✓ (c). *Beauveria bassiana*.
- (d). Ti bacteria.

8. Minimum area of forest in a country for ecological balance should be?

- (a). 21%.
- (b). 35%.
- ✓ (c). 17%.
- (d). 33%.

9. Miniature garden under closed container is known as?

- (a). Box garden.
- (b). Square garden.
- ✓ (c). Terrarium.
- (d). Ornamental glass garden.

10. Micro Propagation Technology Park is located at?

- (a). IIHR, Bangaluru.
- ✓ (b). TERI, New Delhi.
- (c). IAR, New Delhi.
- (d). IVRI, Varanasi.

11. Scientific name of mango steen is?

- (a). *Mangifera stina*.
- (b). *Medica indica*.
- ✓ (c). *Garcinia mangostana*.
- (d). *Mangifera sylvestica*.

12. Joining of vascular tissue to form grafted plant is known as?

- ✓ (a). inosculation
- (b). Budding.
- (c). Patch.
- (d). Cambium grafting.

13. Lower portion of a grafted planted is called?

- ✓ (a). Root stock.
- (b). Scion.
- (c). Stem stock.
- (d). Non of the above.

14. Pollination in rubber is completed by?

- (a). House fly.
- (b). Air.
- (c). Fig wasp.
- (d). It is self pollinated.

15. Which type of plant helps to trap dust.

- (a). Plant with narrow and long leaves.
- (b). Plant with large size and hairy leaves.
- (c). Plant with small and rough leaves.
- (d). Plant with small and long leaves.

16. Central Institute of Horticulture is located at?

- (a). Bengaluru.
- (b). Aimer.
- (c). Degradun.
- (d). Mediziphemar.

17. NHM was launched in which year?

- (a). 2005-06.
- (b). 2003-04.
- (c). 2007-08.
- (d). 2001-02.

18. Which is known as custard apple?

- (a). Ramphal.
- (b). Hanumanphal.
- (c). Sitaphal.
- (d). Lakhshamanphal.

19. Which type of pollination is found in lettuce?

- (a). Self.
- (b). Cross.
- (c). Often cross.
- (d). Non of the above.

20. Mexican single is a variety of?

- (a). Chrysanthemum.
- (b). Gladiolus.
- (c). Jasmine.
- (d). Tuberose.



  
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21. Summer shower is important for flowering in?

- (a). Coffee.
- (b). Mango.
- (c). Cocoa.
- (d). Are a nut.

22. Saffron is a sole crop of which Indian state?

- (a). Sikkim.
- (b). Himachal Pradesh.
- (c). Uttara Khand.
- (d). Kashmir

23. Which genera of measuring is a serious pest of custard apple?

- (a). Planococcus.
- (b). Cannococus.
- (c). Delococcus.
- (d). Parafferisia.

24. Family of Natal plum is?

- (a). Rosaceae.
- (b). Apocynaceae.
- (c). Myrtaceae.
- (d). Palmeceae.

25. Which is a long day plant?

- (a). Sweet potato.
- (b). Potato.
- (c). Tomato.
- (d). All of the above.

26. Based on photoperiodism tomato is classified as a?

- (a). Short day plant.
- (b). Long day plant.
- (c). Day neutral plants.
- (d). Non of the above.

27. Seed rate of hybrid tomato?

- (a). 100 – 150g per ha.
- (b). 250g per ha.
- (c). 400 – 500g per ha.
- (d). 200g per ha.



28. Essential oil is obtained from which flower crop?

- (a). Tuberose.
- (b). Gladiolus.
- (c). Rose.
- ✓ (d). All of the above.

29. Concrete is present in which flower crop?

- (a). Rose.
- (b). Marigold.
- ✓ (c). Carnation.
- (d). Non of the above.

30. Dwarfing rootstock of guava is?

- (a). L- 49.
- ✓ (b). *P. pumilum*.
- (c). *P. molle*.
- (d). *P. friedrichsthalianum*.



# CERTIFICATE



**K.L.E. SOCIETY'S**  
**G I BAGEWADI ARTS, SCIENCE & COMMERCE**  
**COLLEGE NIPANI – 591 237** (Karnataka-India)

(Reaccredited by NAAC at 'A' Level with CGPA 3.35)

**“Certificate Course in Horticultural Techniques”**

*Conducted By*

**DEPARTMENT OF BOTANY**

This is to certify that Mr./Ms. Mahadevi Bhanase of

B Sc VI sem

has completed the Certificate Course in

Horticultural Techniques satisfactorily and secured 'A' grade.

**CO-ORDINATOR**



**PRINCIPAL**


## DEPARTMENT OF BOTANY

Ref.:E:/E/Cert/1pg

Date: 24.04.2016

### Report on Certificate course in Horticultural Technique 2016-17

Name of the Department	Botany							
Name of the Event Organized	Certificate course							
Title of the Event	Horticultural Techniques							
Date of the Event Organized	August to November 2016							
Name of the Convener	Smt. S.B.Patil							
Participants	V semester Botany Students							
No. of Participants	Total	19	Teachers	03	Students	14	Others	2
Name of the Expert with Designation	Shri A.T.Gurav							
Contact Number & Address of the Expert	GopalKrishn Gokhale College, Kolhapur							
Objectives of the Event	<ol style="list-style-type: none"> <li>1. One can learn about tools &amp; techniques of Horticulture</li> <li>2. Plant improvement can be achieved</li> <li>3. To train the students for entrepreneurship</li> </ol>							
Outcome of the Event	<ol style="list-style-type: none"> <li>1. Students learnt the tools &amp; techniques of Horticulture</li> <li>2. they learnt how Plant improvement can be achieved</li> <li>3. they became trained for entrepreneurship</li> </ol>							

  
**HOD**  
 Head  
 Department of Botany  
 K.L.E's G. I. B. College, Nipani.

  
**IQAC Co-ordinator**  
 K.L.E's G. I. B. College, Nipani.

  
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 & Commerce College, Nipani  






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Website: [www.klegibcollege.com](http://www.klegibcollege.com) E-mail: [klegib\\_npn@yahoo.co.in](mailto:klegib_npn@yahoo.co.in)

## DEPARTMENT OF BOTANY

Ref. - GIBN/Bot/CC/FN-1

Date: 11.01.2017

### NOTICE

Department of Botany is introducing a “Certificate Course in Food Processing and Nutrition” in the month of February 2017. The interested students can enroll their names to Smt. J.R.Tikke on or before 25<sup>th</sup> January 2017.

  
HOD  
Head

Department of Botany  
K.L.E's G. I. B. College, Nipani.

  
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Commerce & PG College, Nipani



## DEPARTMENT OF BOTANY

### SYLLABUS FOR CERTIFICATE COURSE IN FOOD PROCESSING AND NUTRITION

UNIT I. Introduction and importance and scope of food and nutrition.	02 hrs
UNIT II . Food Science: Food, function, food groups, nutrient compositions. Cereals, Pulses, Vegetables and Fruits, Milk and milk products	12 hrs
UNIT III. Food chemistry: Carbohydrates, lipids, Proteins and their interaction. Food safety: Food spoilage, control of micro-organisms.	06 hrs
UNIT IV. Food Processing and Preservation:	10 hrs

**Fee structure: Rs. 300/-**

**CONVENER: Prof. (Smt) S.B.Patil<sub>H.O.D.</sub>**

**RESOURCE PERSONS: Prof. Smt. S.B.Patil**

#### EVALUATION METHOD:

- **Theory: One paper of one and half hrs duration for 30 marks**
- **Practical: 2 hours duration for 20 marks**

#### REFERENCE:

- Foods: Facts and Principles by N.Shakuntala Manay & M. Shadaksharaswamy. New Age International Publishers, New Delhi.
- Food Fundamentals by Williamsons M. John Willey & Sons. Inc. N.Y.
- Food Science by Patter M.N, AVI Publ.Co.N.Y
- Industrial Microbiology by Cassida L.T. wiley Eastern Ltd., London



  
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**DEPARTMENT OF BOTANY**

**TIME-TABLE**

**CERTIFICATE COURSE IN FOOD PROCESSING AND NUTRITION**

On every Sunday two classes of one and half hour duration.

On alternate Sundays two hours practical

Day / Time	10 am-11.30am	11.30am-1.00pm	1.30pm-3.30pm
1 <sup>st</sup> Sunday	Theory	Theory	-
2 <sup>nd</sup> Sunday	Theory	Theory	Practical
3 <sup>rd</sup> Sunday	Theory	Theory	-
4 <sup>th</sup> Sunday	Theory	Theory	Practical

Effective from February 2017

*[Signature]*  
**HOD**  
**Head**

Department of Botany  
K.L.E's G. I. B. College, Nipani.

*[Signature]*  
**PRINCIPAL**

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Commerce & PG College, Nipani



**K.L.E.Society's**  
**G.I.Bagewadi Arts, Science and Commerce College, Nipani**  
**Certificate Course Examination 2016-17**  
**Food Processing and Nutrition**

**Time: 90 minutes**

**Marks : 30**

**All Questions carry equal marks**  
**Answer the following**

**15 X 2= 30**

1. Name the elements present in the proteins.
2. Name the bond with which amino acids are joined by.
3. Name the proteins found in the milk of the cow.
4. Which is mostly first class of proteins?
5. Where the proteins are synthesized?
6. Which proteins are called messenger protein?
7. Which of the proteins increases the rate of chemical reaction in the body?
8. Which protein helps to protect from infection and diseases in the body?
9. Which proteins are called transport proteins?
10. Name the term used for mode of obtaining food.
11. How much energy will we get from one gram of glucose?
12. Give the examples of Monosaccharides?
13. In which form the human body uses carbohydrates?
14. In which form the brain and RBC needs energy source?
15. What happens to the sodium and selenium in food Processing?





(Re-accredited at 'A' Level by NAAC with CGPA 3.254)

## I / II Internal Test

Class : ~~Food Processing~~ <sup>B.Sc. V Sem</sup> Subject : Food Processing  
 Roll No. : 74 Date :  
 Marks Scored : 26

Signature of Valuer

Signature of the Invigilator with date

- 2 ✓ 1. C, H, N and oxygen
- 2 ✓ 2. co-valent bond
- 2 ✓ 3. Casein
- 2 ✓ 4. Essential amino acid containing proteins are first class proteins
- 2 ✓ 5. Ribosomes.
- X 6. R-NA protein
- 2 ✓ 7. Enzymes
- 00 8. .
- 2 ✓ 9. Carrier proteins are transportation proteins
- 2 ✓ 10. Nutrition is the mode of obtaining food
- 2 ✓ 11. 3.874 k-cal of energy.
- 2 ✓ 12. Glucose, Fructose
- 2 ✓ 13. Glucose is the form that is used by



2-14. Glucose is the form of energy required by  
Brain RBCs

2-15. Sodium is lost by cooking  
Selenium is lost by processing





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G I BAGEWADI ARTS, SCIENCE & COMMERCE

COLLEGE NIPANI - 591 237 (Karnataka-India)

(Accredited by NAAC at 'A' Level with CGPA 3.35)

# "FOOD PROCESSING AND NUTRITION"

Conducted By

DEPARTMENT OF BOTANY

## Certificate

This is to certify that Mr./Ms. \_\_\_\_\_ of

\_\_\_\_\_ has completed the Certificate Course in

Food Processing and Nutrition satisfactorily and secured \_\_\_\_\_ grade.

  
CO-ORDINATOR



  
PRINCIPAL



## DEPARTMENT OF BOTANY

Ref.:E/E/Cert/1pg

Date:24.04.2017

### Report on Certificate course in Food Processing and Nutrition 2016-17

Name of the Department	Botany
Name of the Event Organized	Certificate course
Title of the Event	Food Processing And Nutrition
Date of the Event Organized	January to April 2017
Name of the Convener	Smt. S.B.Patil
Participants	V semester Botany Students
No. of Participants	21
Name of the Expert with Designation	Manjula Patil
Contact Number & Address of the Expert	Food processing Department Arabhavi
Objectives of the Event	1. To learn importance of Nutrition To train the students for entrepreneurship
Outcome of the Event	1. Students learnt the of Food and Nutrition 3.They became trained for entrepreneurship

  
HOD

Head

Department of Botany  
K.L.E's G. I. B. College, Nipani.

  
IQAC Coordinator

**IQAC Co-ordinator**

K.L.E's G. I. B. College, Nipani.

  
PRINCIPAL  
PRINCIPAL

G.I.Bagewadi Arts, Science  
& Commerce College, Nipani



V 9

## DEPARTMENT OF PHYSICS

### NOTICE

Our department is going to start a certificate course in Designing of Battery Eliminator for the academic year 2016-2017. The interested students are informed to enroll their names to Prof. V. N. Chougule on or before 10<sup>th</sup> August 2016.

  
HOD

Head  
Department of Physics  
G.I. Bagewadi College, NIPAM



**K. L. E Society's**  
**G.I. Bagewadi Arts, Science, Commerce & PG College, Nipani**  
**DEPARTMENT OF PHYSICS**

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**Application form for admission to Certificate Course in Physics for the year 2016- 17**

To,  
HOD of Physics  
K.L.E. Society's G. I. Bagewadi College, Nipani



**PARTICULARS OF APPLICANT**

1) Full Name of the applicant

Priya . Siddalingappa . Panchawari

2) Class : B.Sc - V<sup>th</sup> sem

3) Category : II-A

4) Gender : Female


5) Address for correspondence:

Sai Shankar Nagar, Akkol Road

c/o N. V. Hulikeri Nipani - 591237

Contact No.: 8095362102, 8867307753

6) E-mail ID : Priyapanchawari15@gmail.com

  
Signature of Applicant



**K. L. E Society's**  
**G.I. Bagewadi Arts, Science, Commerce & PG College, Nipani**  
**DEPARTMENT OF PHYSICS**

---

**Application form for admission to Certificate Course in Physics for the year 2016- 17**

To,  
HOD of Physics  
K.L.E. Society's G. I. Bagewadi College, Nipani



**PARTICULARS OF APPLICANT**

1) Full Name of the applicant

SWATI T. PATIL

2) Class : BSc III<sup>rd</sup> year

3) Category : 2B

4) Gender : Female

5) Address for correspondence:

Adarash Nagar, Near, Exerize Quarter P.B.  
Road, Nipani,

Tal: Chikkodi Dist: Belagavi Pin: 591237

Contact No.: 08105970899

6) E-mail ID : PatilSwati.sp.0811@gmail.com

  
Signature of Applicant



K.L.E. Society's  
G.I. Bagewadi Art's, Science & Commerce College Nippani  
DEPARTMENT OF PHYSICS  
CERTIFICATE COURSE IN PHYSICS  
2016-17

**DESIGNING OF BATTERY ELIMINATOR**

**LIST OF STUDENTS**

SL.NO	NAME OF THE STUDENTS	CLASS
1	PRIYA PANCHAXARI	B.Sc V Sem
2	SWATI T PATIL	B.Sc V Sem
3	PALLAVI S SHANDAGE	B.Sc V Sem
4	PRIYA J KANKANWADI	B.Sc V Sem
5	SABREEN M TAHSLIDAR	B.Sc V Sem
6	ANJUM MUJAWAR	B.Sc V Sem
7	AMOL NIOKAM	B.Sc V Sem
8	ARADHINI KAGE	B.Sc V Sem
9	ASHWINI JADHAV	B.Sc V Sem
10	ASHWINI KHOT	B.Sc V Sem
11	GANAPA SHENDRE	B.Sc V Sem
12	ABHIJEET KONE	B.Sc V Sem
13	MAHESH KOOT	B.Sc V Sem
14	POOJA PATIL	B.Sc V Sem
15	PRIYANKA DAVANE	B.Sc V Sem
16	ROHAN DABHADE	B.Sc V Sem
17	SANGEETA BHADAKAR	B.Sc V Sem
18	SANTOSH INGALE	B.Sc V Sem
19	PAYAL KSHIRSAGAR	B.Sc V Sem
20	SAVITA KAMBLE	B.Sc V Sem
21	SAYALI KULKARNI	B.Sc V Sem
22	SHITAL TANGADE	B.Sc V Sem
23	SHUBHAM RODD	B.Sc V Sem



24	SOORAJ PATIL	B.Sc V Sem
25	SUJATA GHATAGE	B.Sc V Sem
26	SUNIL JANGATE	B.Sc V Sem
27	SURAJ KUMBAR	B.Sc V Sem
28	VARDHAMAN PATIL	B.Sc V Sem
29	VIRESH SHIRAGAVI	B.Sc V Sem
30	VISHAL JABADE	B.Sc V Sem



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& Commerce College, Nipani





# SYLLABUS

## UNIT-I

1. Active components, Passive components. 02 Hours
- i) Battery, Transistor, Rectifier
  - ii) Capacitors, Inductors, Resistors

## UNIT-II

1. Transformers: Types 04 Hours
- i) Step up transformer
  - ii) Step down transformer
  - iii) Turn Ratio

## UNIT-III

1. Diode: Types 04 Hours
- i) Diode as a rectifier
  - ii) Zener diode

## UNIT-IV

1. Rectifier: Types 04 Hours
- i) Half wave rectifier
  - ii) Full wave rectifier
  - iii) Bridge rectifier
2. Determination of  $V_{dc}$ ,  $I_{dc}$ , Voltage drop & Efficiency.



## UNIT-V

- |                                      |          |
|--------------------------------------|----------|
| 1. Filters: Types                    | 05 Hours |
| i) Capacitor input filter            |          |
| ii) Inductor input filter            |          |
| iii) LC filter                       |          |
| 2. Efficiency, Ripple factor and PIV |          |

## UNIT-VI

- |  |          |
|--|----------|
| 1. Circuit diagram and explanation of circuit diagram. | 05 Hours |
| Total  | 24 Hours |

Practical's:

- Designing of 9 volt dc battery eliminator. 24 Hours

Total: 48 Hours



  
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& Commerce College, Nipani

## TIME TABLE

DAY	TIME
Tuesday	4.00 pm to 5.00 pm
Wednesday	4.00 pm to 5.00 pm
Friday	4.00 pm to 5.00 pm
Saturday	4.00 pm to 5.00 pm

## Distribution of Syllabus

S. No.	Name of The Teacher	Units
1	Dr. M.B.Kothale	1
2	Dr R.G.Kharabe	2
3	Prof A.D.Tigadi	3&4
4	Prof.V.N.Chougule	5

  
PRINCIPAL

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& Commerce College, Nipani



  
HOD

Head  
Department of Physics  
G.I Bagewadi College, NIPANI



## TIME TABLE

<b>DAY</b>	<b>TIME</b>
Monday	4.00 pm to 5.00 pm
Tuesday	4.00 pm to 5.00 pm
Wednesday	4.00 pm to 5.00 pm
Thursday	4.00 pm to 5.00 pm



**K.L.E's G.I.B.BAGEWADI COLLEGE, NIPPANI**  
**DEPARTMENT OF PHYSICS**  
**CERTIFICATE COURSE IN "DESIGNING OF BATTERY ELIMINATOR"**  
**YEAR-2016/2017**  
**STUDENTS MARK LIST**

SL.NO.	NAME OF STUDENTS	CLASS	MARKS
1	PRIYA PANCHAXARI	B.Sc V Sem	24
2	SWATI PATIL	B.Sc V Sem	25
3	PALLAVI SHANDAGE	B.Sc V Sem	20
4	PRIYA KANKANWADI	B.Sc V Sem	25
5	SABREEN M TAHLIDAR	B.Sc V Sem	21
6	ANJUM MUJAWAR	B.Sc V Sem	22
7	AMOL NIOKAM	B.Sc V Sem	18
8	ARADHINI KAGE	B.Sc V Sem	19
9	ASHWINI JADHAV	B.Sc V Sem	19
10	ASHWINI KHOT	B.Sc V Sem	20
11	GANAPA SHENDE	B.Sc V Sem	20
12	ABHIJEET KONE	B.Sc V Sem	25
13	MAHESH KOOT	B.Sc V Sem	24
14	POOJA PATIL	B.Sc V Sem	23
15	PRIYANKA DAVANE	B.Sc V Sem	25
16	ROHAN DABHADE	B.Sc V Sem	25
17	SANGEETA BHADAKAR	B.Sc V Sem	24
18	SANTOSH INGALE	B.Sc V Sem	18
19	PAYAL KSHIRSAGAR	B.Sc V Sem	25
20	SAVITA KAMBLE	B.Sc V Sem	24
21	SAYALI KULKARNI	B.Sc V Sem	23
22	SHITAL TANGADE	B.Sc V Sem	25
23	SHUBHAM RODD	B.Sc V Sem	19



*P. K. U.*  
**Head**  
 Department of Physics  
 K.L.E's G. I. B. College, Nipani.

DEPARTMENT OF PHYSICS

CETIFICATE COURSE : DESIGNING OF BATTERY ELIMINATOR  
2016-17

10X2=20 M  
1 Hour

1. The Capacity of battery is expressed in terms of
  - a)Current rating
  - b)Voltage rating
  - c)Ampere hour rating
  - d)None of the above
2. The storage battery generally used in electric power station is
  - a)Nickel-cadmium battery
  - b)Zinc-carbon battery
  - c)Lead -acid battery
  - d)none of the above
3. Trickle charger of a storage battery helps to
  - a)Maintain proper electrolyte level
  - b)Increase its reverse capacity
  - c)Prevent sulphation
  - d)Keep it fresh and fully charged
4. Battery charging equipment is generally installed
  - a)In Well ventilated location
  - b)In clean and dry place
  - c)As near as practical to the battery being charged
  - d)In location having all above features
5. On over charging a battery
  - a)It Will bring about chemical change in active materials
  - b)It Will increases the capacity of the battery
  - c)It Will raise the specific gravity of the electrolyte
  - d)None of the above
6. Batteries are charged by
  - a)Rectifiers
  - b)Engine generator sets
  - c)Motor generator sets
  - d)Any of the above
7. Battery container should be acid resistance therefore it is made up of
  - a )Glass
  - b)Plastic
  - c)Wood
  - d)All of the above
8. Following Will happen if battery charging rate is too high
  - a)Excessive gassing Will occur
  - b)Temperature rise Will occur
  - c)Bulging and bucking of plates We occur
  - d)All of the above
9. Local action in a battery is indicated by
  - a)Excessive gassing under load conditions
  - b)Excessive drop in the specific gravity of electrolyte even When the sale is on open circuit
  - c)Both A and B
  - d)None of the above
10. The following indicate that battery on charge has attained full charge
  - a)Colour of electrode
  - b)Gassing
  - c)Specific gravity
  - d)All of the above









KLE Society's

**G.I. BAGEWADI ARTS, SCIENCE & COMMERCE COLLEGE,  
NIPANI-591237**



(Reaccredited by NAAC at 'A' Level with CGPA 3.254)

**Certificate**

**DEPARTMENT OF PHYSICS**

This is to certify that Mr/Ms. Sangeeta Bhadakar  
of B.sc V Sem Semester has successfully Completed Certificate Course in  
"Designing Of Battery Eliminator during the year 2016-2017."

  
Head of the Department



  
Principal



K.L.E. Society's  
**G.I. Bagewadi Arts, Science and Commerce College, Nipani-591237**

Accredited at 'A' level by NAAC with CGPA 3.35

(Affiliated to Rani Channamma University, Belagavi, Karnataka, India)


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**REPORT ON CERTIFICATE COURSE ON "DESIGNING OF BATTERY ELIMINATOR"**

Name of the Department	Physics
Name of the Event Organized	Certificate Course
Title of the Event	Designing Of Battery Eliminator
Date of the Event Organized	10/08/2016
Name of the Convener	HOD of Physics
Participants	26
No. of Participants	Total 26 Teachers 3 Students 23
Name of the Expert with Designation	Prof. Vishal Cougule, Professor, Department of Physics
Contact Number & Address of the Expert	Cell No : 8095737365 KLE'S G.I. Bagewadi College, Nipani
Objectives of the Event	1. To understand components & functions of battery management system. 2. To get a secondary job to maximize the battery capacity.
Outcome of the Event	In this course, students will get a complete overview of electrochemistry, battery terminologies, charging & discharging for EV application & thermal management.

Photo Gallery



  
IQAC Coordinator  
Co-ordinator IQAC  
K. L. E. Society's  
G. I. Bagewadi College, Nipani.

  
HOD  
Head  
Department of Physics  
K.L.E's G. I. B. College, Nipani.

  
Principal  
PRINCIPAL  
G.I. Bagewadi Arts, Science &  
Commerce College, NIPANI.