



RANI CHANNAMMA UNIVERSITY BELAGAVI

WEL-COME

**TO THE COURSE STRUCTRE AND SYLLABUS OF UNDERGRADU
PROGRAMMES – B.Sc**

III Semester



Group – II

OPTIONAL / COMPULSORY SUBJECT FOR THE DEGREE IN SCIENCE SUBJECT

Science Subjects: (any three subject of equal importance to be chosen as per the grouping given by Rani Channamma University, Belagavi)

DETAILED SYLLABUS OF FOLLOWING PAPERS WITH PRACTICAL

1. BOTANY (optional)

B.Sc. III Semester (w.e.f: 2018 – 19) and onwards.

Subject: BOTANY (optional)

Paper-: Diversity of Cryptogams (Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms).

Unit I: Algae

General characters, Pigmentation, Classification by Fritsch (up to class level). Distribution, thallus structure, reproduction and life cycle of Nostoc, Volvox, Oedogonium, Sargassum and Batrachosperm. Economic importance.

Unit II: Fungi

General characters, Classification (Alexopoulos's system). Distribution, Structure, Reproduction and life cycle of Albugo, Rhizopus, Penicillium and Puccinia. Economic importance of fungi. General account of lichens.

Unit III: Plant Pathology

General account of Bacteria and Viruses. Introduction and general symptoms of plant diseases. Symptoms, Pathogens and control measures of Late blight of potato, White rust of crucifers, Tikka disease of ground nut.

Unit IV: Bryophytes

General characters, Classification (Smith). Structure, reproduction and schematic life cycle of Riccia, Anthoceros and Funaria. (Developmental details are not expected). Evolution of sporophytes.

Unit V: Pteridophytes

General characters and classification. Distribution, Structure (External and Internal) and Reproduction of Psilotum, Selaginella, Equisetum and Nephrolepis (Developmental details are not expected). Stelar evolution. Heterospory and seed habit

Unit VI: Gymnosperms

General characters and classification. Distribution, Structure (External and Internal) and Reproduction of Cycas, Pinus and Gnetum (Developmental details are not expected).

Unit VII: Paleobotany

Geological time scale, fossilization-molds, Impression, Petrification and cast. Study of fossils - Calamitis, Lepidodendron, Lygenopteris.



B.Sc. III Semester PRACTICALS

Total number of hours per week: 04, Internal Assessment=10 Marks, Max Marks: 40 M

1. Vegetative and reproductive structures of Nostoc, Volvox and Oedogonium.
2. Vegetative and reproductive structures of Sargassum and Batrachospermum
3. Vegetative, reproductive structures and disease symptoms of Albugo, Rhizopus, Penicillium.
4. Vegetative, reproductive structures and disease symptoms of Puccinia. Lichen
5. Study of Vegetative and Reproductive structures of Riccia, Anthoceros and Funaria
6. Study of Vegetative and Reproductive structures of Psilotum and Selaginella.
7. Study of Vegetative and Reproductive structures of Equisetum and Nephrolepis
8. Study of Vegetative and Reproductive structures of Cycas, Pinus and Gnetum
9. Disease symptoms and control measures of Late blight of potato, Black rust of wheat, Tikka disease of ground nut.
10. Paleobotany- Study of fossils Lepidodendron, Calamitis, Lygenopteris.

11. Field visits.

Suggested Readings:

Smith G.M.1971 vol 1 Algae and fungi. Tata McGraw HILL Publishing company New Delhi

Sharma O.P. 1992 Text book of thallophytes McGraw Hill Publication

Sharma P.D. 1991 The fungi Rastogi and Co Meerut

Dubey H.C.1990An Introduction to Fungi Vikas Publishing House Pvt Ltd

Dehli Clifton, A 1958 Introduction to Bacteria McGraw Hill and Co New York

Basu A.N.1993 Essentials of plant viruses, vectors plant diseases New Age International New Delhi.

Chopra G.L. A text book of algae Rastogi and co Meerut

Rangaswami G 1998 Diseases of crop plants in India. Prentice Hall of India New Delhi.

Sunderrajan S 1997 College Botany Vol 1. S. Chand and Co Ltd New Delhi

Alexopoulos, 1992 An Introduction to Mycology. New Age International. New Delhi

Vashista B.R. 1978 Fungi. S. Chand and co. Ltd. New Delhi

B.Sc. III Semester

Botany Practical Examination

Time: 4 Hours

Max M

- | | |
|---|----|
| Q1: Identify and classify specimens A, B, C giving reasons. | 09 |
| Q2: Identify and explain the internal structures of specimen D and E with the neat labelled diagrams (Show the preparation to the examiner) | 10 |
| Q 3: Identify & describe the salient features in the slides/ specimens E, F, G, H, I and J | 12 |
| Q4: Identify & describe the salient features in the fossil specimen K. | 03 |
| Journal | 04 |
| Field visit report | 03 |



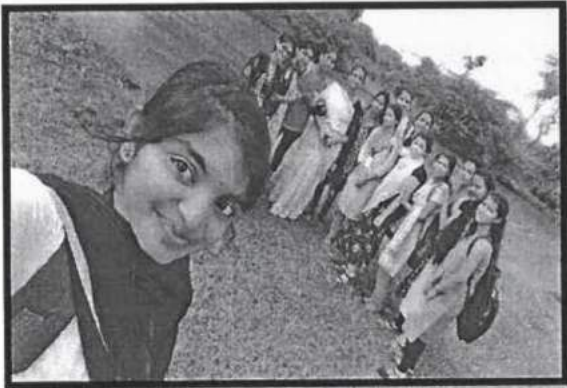



DEPARTMENT OF BOTANY

Ref.: E:/E/Study tour

Date: 18.10.2019

Report on Study Tour/Field Visit for the year 2019-20

Name of the Department	Botany						
Name of the Event Organized	One day visit						
Title of the Event	Visit to Ponds and streams between Nipani and Chikodi						
Date of the Event Organized	17.10.2019						
Name of the faculty accompanied	Smt. S. B. Patil Dr. Smt. S. P. Shiragave						
Participants	III Semester Botany Students						
No. of Participants	Total	66	Teachers	2	Students	64	Others
Objectives of the Event	1. To study the plants in natural habitats. 2. To understand the Distribution of cryptogamic Plants.						
Outcome of the Event	1. Students were able observe plants in natural habitats 2. Students understood the Distribution of cryptogamic Plants						
Photo Gallery							
							


**HOD
HEAD**
Department of Botany
G. I. Bagewadi College, Nipani.


IQAC Coordinator
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

Accredited at 'A' level by NAAC with CGPA 3.35

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

Website: www.klegibnnpn.edu.in E-mail: klegib_npn@yahoo.co.in/ klegibnbotany@gmail.com

Ph.: 08338-220116

Ref:E/E/Studytour/Permission

Date: 16.10.2019

DEPARTMENT OF BOTANY

To,

The Principal,
KLES G I Bagewadi College
Nipani.

Sub: Seeking permission to conduct study tour for BSc III Sem.

Respected Sir,

As per the RCU Belagavi BSc III Sem Syllabus there is study tour for BSc III Semester Students. There is study tour to study natural habitat and distribution of Cryptogamic plants. Accordingly the department of botany has arranged one day study tour to ponds and streams between Nipani and Chikodi on 17th October 2019. Hence, I request you kindly permit us to conduct the study tour. Two Faculty members of the Botany department will accompany the students.

Thanking You

Yours Sincerely

HOD
HEAD

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G. I. Bagewadi College, Nipani.



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E-mail: klegib_npn@yahoo.co.in/klegibnbotany@gmail.com

Ph.: 08338-220116

DEPARTMENT OF BOTANY

Ref.: Bot/E:/E:/CR I/ Study Tour

Date:

S.No	Year	Places visited	Class	Days	No. of Students	Staff in charge
1.	2019-20	Ponds and streams between Nipani and Chikodi	III Sem	1 Day	64	Smt. S.B.Patil, Dr.S.P.Shirgave.

Sl.No	III sem students' List 2019-20	Sl.No	III sem students' List 2019-20
1	Adesh Patil	33	Rukmini B Talwar
2	Afreen Parakute	34	Rutuja D Chougule
3	Aishwarya Kurundawade	35	Rutuja B. Desai
4	Akshata A. Kulkarni	36	Rutuja S. Pawar
5	Akshata A. Vasawade	37	Rutuja V. Shinde
6	Akshay S. Shirgave	38	Sagar B. Bagadi
7	Aniket R. Sadalage	39	Sahil S. Patil
8	Anita B. Ingale	40	Sakshata S. Jatrare
9	Anjali S. Patil	41	Sana Gadampalli
10	Arati Dhanappagol	42	Sana A. Mulla
11	Arpita A. Kulkarni	43	Seema S. Kunnure
12	Bhagyashri S. Ghatage	44	Shashidhar N Gurav
13	Dhanashri Patil	45	Shefali P Magdum
14	Gouri M Rajannavar	46	Shridhar S. Hawaldar
15	Kiran B. Irole	47	Shruti Kamate
16	Kiran K Karibalappagol	48	Shrutika A. Kamate
17	Komal S. Latakar	49	Shrutika D Tele
18	Mahesh S. Gavade	50	Shubhangi S. Bhojapatil
19	Mahesh A. Kadapure	51	Sneha B Ambi
20	Maheshchandra Dhange	52	Sneha A. Ingale
21	Mansi S. Gurav	53	Sneha S. Murabatte
22	Manjula Bhawe	54	Sneha S. Patil
23	Manjushree Sattigeri	55	Soumya Magdum
24	Megha Maruti Kambale	56	Sourabh Vaigude
25	Nikeeta A. Patil	57	Srushti S. Halagadagi
26	Nisha Y Chinchane	58	Suchita Sapagale
27	Omkar B Kore	59	Sukanya S. Singanavar
28	Pavan Bilage	60	Sushma Mathapati
29	Rakesh Sutar	61	Trupti A. Kamalakar
30	Rashmi Popat Sidanale	62	Vaishnavi More
31	Ritu S. Billkar	63	Varsha R. Kore
32	Rudra R. Magadum	64	Abhishek Narayankar


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

Group – II

OPTIONAL / COMPULSORY SUBJECT FOR THE DEGREE IN SCIENCE SUBJECTS

RANI CHANNAMMA UNIVERSITY, BELAGAVI.

B.Sc. IV Semester (w.e.f: 2018 – 19) and onwards.

Subject: BOTANY (optional)

Paper: Diversity of Angiosperms and their systematics, Economic botany and Medicinal botany 52 hrs.

Unit I: Morphology of Angiosperms: 07 hrs.

Study of stems and its modifications, Leaf- types, stipules, Phyllotaxy and their modifications. Study of Inflorescences, flowers (Floral formula and Floral diagram to be included) and fruits.

Unit II: Angiosperm systematics: 10 hrs.

Botanical nomenclature- principles and rules, taxonomic ranks, type concept and principle of priority. Botanical survey of India. Classification of Angiosperms: Systems proposed by Bentham and Hooker, Engler Prantl. Their salient features, merits and demerits. Brief account of APG classification.

Contributions of Cytology (Cytotaxonomy), Phytochemistry (Chemotaxonomy) and Taximetrics (Numerical taxonomy) to taxonomy.

Unit III: Diversity of flowering plants as illustrated by members of the following families: 20hrs

Annonaceae, Brassicaceae, Malvaceae, Rutaceae, Rhamnaceae, Fabaceae, Myrtaceae, Combretaceae, Cucurbitaceae, Apiceae, Rubiaceae, Asteraceae, Apocyanaceae, Asclepiadaceae, Convolvulaceae, Solanaceae, Acanthaceae, Verbenaceae, Lamiaceae, Amaranthaceae, Euphorbiaceae, Orchidaceae, Liliaceae, Arecaceae and Poaceae.

Unit IV: Economic Botany: 10 hrs

Origin & Distribution, Family, Botanical name and utility of following plants-

Food plants: Rice, Wheat, Maize, Pulses (Bengal gram, Pigeon pea) and Sugarcane

Fibres: Cotton, Jute.

Oil yielding plants: Ground nut, Sunflower, Palm oil, Sandalwood and Citronella oils

Paper & pulp: Bamboo & Eucalyptus

Spices: Ginger, Clove, Cinnamon, Asafoetida and Cardamom

Beverages: Tea & Coffee

Rubber: Hevea sp.

Unit V: Medicinal botany: 05hrs

Common medicinal plants in primary health care: -

Tippateega (*Tinosporacordifolia*), Tulsi (*Oscimumsanctum*) Kalabanda (*Aloe-vera*)

Turmeric (*Curcuma longa*) Ashwagandha (*Withaniasomnifera*) and Sarpagandha

(*Rauwolfiaserpentina*)



Practicals:-

1. Morphology of Root, Stem, Leaf and their modifications.
2. Study of Inflorescence and its types.
3. Study of Flower-I- Descriptive terms, Thalamus, Calyx, Corolla and aestivation.
4. Study of Flower-II –Androecium and Gynoecium. Floral formula and Floral diagram.
5. Study of Fruit types.
6. Study of any 18 families representing from polypetalae, gamopetalae, apatalae and monocots available in the locality.
8. Economic botany and Study of Medicinal Plants (as per syllabus) available in the locality.
9. Study Tour for minimum Two days to study the Flora (Taxonomy).

Suggested readings:

1. Davis, P.H. and Heywood, V.H. 1963. Principles of angiosperm taxonomy. Oliver and Boyd, London.
2. Heywood, V.H. and Moore, D.M. (eds) 1984. Current concepts in plant taxonomy academic press, London
3. Jeffery, C. 1982. An introduction to plant taxonomy. Cambridge university press, Cambridge, London.
4. Jones, S.B. Jr and Luchsinger, A.E. 1986. Plant systematics (2nd edition). McGraw Hill book co, New York.
5. Radford, A.E. 1986. Fundamentals of plant systematics. Harper and Row, New York.
6. Singh, G. 1999. Plant systematics; theory and practice. Oxford and IBH, New Delhi.
7. Atace, C.A. 1989. Plant taxonomy and bio systematics (2nd edition). Edward Arnold, London.
8. Dutta, S.C. 1988. Systematic botany. W. B. Saunders, New Delhi.
9. Jaques, H.E. 1999. Plant families- how to know them. IBS, New Delhi.
10. Lawrence, G.H.M. 1951. Taxonomy of vascular plants. Macmillan, New Delhi.
11. Stewart, W.M. 1983. Paleobotany and the evolution of plants, Cambridge university press, Cambridge.
12. Joshi S.G. Medicinal plants Oxford and IBH New Delhi.
13. Kokate and Gokeale _pharmacognacy. Nerali publication, New Delhi.
14. Lad v Ayurveda- the science of self-healing- Motilal Banarasi Das, New Delhi.
15. Lewis W.H. and M.P.F Elwin Lewis 1976, Medical Botany plants affecting man's health. A Wiley interscience publication, John Wiley and sons New York.
16. College botany vol 1 by Gangulee, Das and Datta. New central book agency, Calcutta.
17. Systematic botany by R.N Sutaria.
18. Taxonomy of Angiosperms by B.P. Pandey.
19. Kocchar, S.L. 1998. Economic Botany in Tropics. 2nd edition, Macmillan Ltd, New Delhi.
20. Sambamurthy, A.V.S.S and Subramanyam, N.S. 1989. A Text Book of Economic Botany, Wiley Eastern Ltd. New Delhi.
21. Sharma, O.P. 1996. Hill's Economic Botany. Tata McGraw Hill Co., Ltd., New Delhi.
22. Simpson, B.B. and Conner-Ogorzaly, M. 1986. Economic Botany-plants in our world. McGraw Hill, New York.
23. Hill. A.F. 1989. Economic Botany. Tata McGraw-Hill, New York.
24. Herbs Cultivation and Medicinal Uses- H. Panda – NIIR Publication, New Delhi.
25. Chopra R.N., Badhuvar R.L. & Ghosh G. (1965) - Poisons Plant of India.




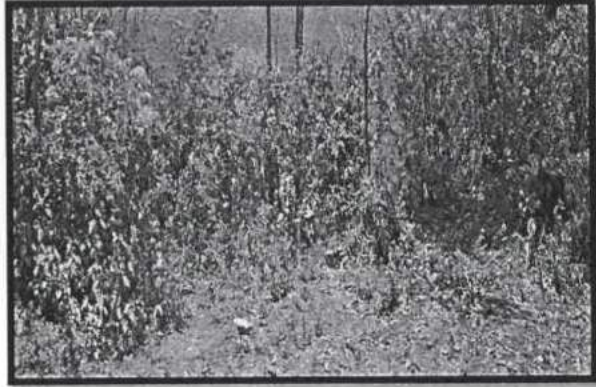


DEPARTMENT OF BOTANY

Ref.: E:/E/Study tour

Date:25.02.2020

Report on Study Tour/Field Visit for the year 2019-20

Name of the Department	Botany						
Name of the Event Organized	Study Tour						
Title of the Event	Three days tour visit to Kuduremukh						
Date of the Event Organized	20.02.2020 to 23.02.2020						
Name of the faculty accompanied	Smt. S. B. Patil, Dr. Smt. S. P. Shiragave						
Participants	IV Semester Botany Students						
No. of Participants	Total	61	Teachers	2	Students	59	Others
Objectives of the Event	1. To study the plants in natural habitats. 2. To understand the Distribution of Plants.						
Outcome of the Event	1. Students were able observe plants in natural habitats 2. Students understood the Distribution of Plants						
Photo Gallery							
							


HOD

HEAD

Department of Botany

G. I. Bagewadi College, Nipani.


IQAC Coordinator

Co-ordinator IQAC

K. L. E. Society's

G. I. Bagewadi College, Nipani.


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E-mail: klegib_npn@yahoo.co.in / klegibnbotany@gmail.com

Ph.: 08338-220116

Ref:E:/E/Studytour/Permission

Date: 17.02.2020

DEPARTMENT OF BOTANY

To,

The Principal,
KLES G I Bagewadi College
Nipani.

Sub: Seeking permission to conduct study tour Reg.

Respected Sir,

As per the RCU Belagavi BSc IV Sem Syllabus there is study tour for BSc IV Semester Students. Accordingly the department of botany has arranged three days study tour to Kuduremukh on 20.02.2020 to 23.02.2020. Hence, I request you kindly permit us to conduct the study tour. Faculty and gardeners of the Botany department will accompany the students.

Thanking You

Yours Sincerely


HOD
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E-mail: klegib_npn@yahoo.co.in/klegibnbotany@gmail.com

Ph.: 08338-220116

DEPARTMENT OF BOTANY

Ref: E/E/Study tour

Date: 17.02.2020

S.No	Year	Places visited	Class	Days	No. of Students	Staff in charge
1.	2019-20	Kudremukh	IVSem	3 Day	59	Smt. S.B.Patil, Dr.S.P.Shirgave.

Sl.No	IV sem students' List 2019-20	Sl.No	IV sem students' List 2019-20
1	Adesh Patil	31	Rutuja S. Pawar
2	Aishwarya Kurundawade	32	Rutuja V. Shinde
3	Akshata A. Kulkarni	33	Sagar B. Bagadi
4	Akshata A. Vasawade	34	Sahil S. Patil
5	Aniket R. Sadalage	35	Sakshata S. Jatrare
6	Anita B. Ingale	36	Sana Gadampalli
7	Anjali S. Patil	37	Sana A. Mulla
8	Arpita A. Kulkarni	38	Seema S. Kunnure
9	Bhagyashri S. Ghatage	39	Shashidhar N Gurav
10	Gouri M Rajannavar	40	Shefali P Magdum
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14	Mahesh A. Kadapure	44	Shrutika D Tele
15	Maheshchandra Dhange	45	Shubhangi S. Bhojapatil
16	Mansi S. Gurav	46	Sneha B Ambi
17	Manjula Bhave	47	Sneha A. Ingale
18	Manjushree Sattigeri	48	Sneha S. Murabatte
19	Megha Maruti Kambale	49	Sneha S. Patil
20	Nikeeta A. Patil	50	Soumya Magdum
21	Nisha Y Chinchane	51	Sourabh Vaigude
22	Omkar B Kore	52	Srushti S. Halagadagi
23	Pavan Bilage	53	Suchita Sapagale
24	Rakesh Sutar	54	Sukanya S. Singanavar
25	Rashmi Popat Sidanale	55	Sushma Mathapati
26	Ritu S. Billkar	56	Trupti A. Kamalakar
27	Rudra R. Magadum	57	Vaishnavi More
28	Rukmini B Talwar	58	Varsha R. Kore
29	Rutuja D Chougule	59	Abhishek Narayankar
30	Rutuja B. Desai	60	

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Principal
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B.Sc. V Semester (w.e.f. 2019 – 20)

Botany Paper - I

50

Paper-I: Plant Breeding, Tissue Culture and Horticultural Practices.

Hrs

Unit I: Plant Breeding: History and objectives. Introduction, Selection (Pure line, Mass Selection), Hybridization- inter specific and inter generic. Mutational & Polyploidy breeding. Germ plasm and its maintenance. Pollen Bank, Quarantine method.

10 Hrs.

Unit II: Plant Tissue Culture: Scope and Significance. Basic Aspects and Cellular totipotency (Shoot tip, Embryo and Haploid culture techniques). Differentiation and morphogenesis.

10 Hrs.

Unit III: Introduction to Horticulture, Nursery management and importance.

Methods of propagation – vegetative – rhizome, bulb, corm and sucker (natural). Artificial- Cutting, layering, grafting and budding. Bonsai – methods and importance. Nursery management: Introduction, types of nurseries and cultural practices. Seed (propagule) collection, storage and treatment. Manures, fertilizers and pesticides. Methods of irrigation – drip, sprinkler and flood

12 Hrs.

Unit IV: Green House Technology – Introduction, advantages and limitations. Types of Green Houses- Green House structure, principle Greenhouse technology as applied to ornamental, vegetable and fruit plants.

08 Hrs.

Unit V: Harvest Technology and Weed Management: Harvest Technology: Flower and fruit plants management. Artificial ripening, maturity indices, methods of picking. Post-harvest technology and management of fruits: grading, processing, storage and packing. Weed Management: Introduction and significance. Invasive weeds – concept and causes of their dominance. Weed control – physical, chemical and biological methods.

10 Hrs.

Practicals:

1. Study of methods of propagation with help of tubers, bulbs rhizomes, corms suckers, runner and offset.
2. Study of propagation by cutting, layering, grafting and budding.
3. Methods of emasculation and bagging for cross-pollination.
4. Morphology and anatomy of dry and wet stigma.
5. Morphology and anatomy of solid and hollow styles.
6. Study of pollination types.
7. Demonstration of tissue culture techniques.
8. Visit to nursery - poly house /Green house and tissue culture lab.
9. Preparation of MS media for culture. 10. Bonsai techniques.







DEPARTMENT OF BOTANY

Ref.:E:/E/Study tour

Date: 14.10.2019

Report on Study Tour/Field Visit for the year 2019-20

Name of the Department	Botany					
Name of the Event Organized	One day visit to forest region					
Title of the Event	Visit to Adi hills					
Date of the Event Organized	12.10.2019					
Name of the faculty accompanied	Smt. S.B.Patil Smt. S.S.Sunnal Dr.Smt.S. P. Shiragave Ms. P.B.Meghannavar					
Participants	V Semester Botany Students					
No. of Participants	Total	54	Teachers	4	Students	50
Objectives of the Event	1. To study the taxonomy of plants. 2. To study the Distribution of angiosperms					
Outcome of the Event	1. Students were able to study plants belonging to different Taxa. 2. Students understood the Distribution of Angiosperm Plants					
Photo Gallery						
						



HOD
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Department of Botany
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Co-ordinator IQAC
K. L. E. Society's
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DEPARTMENT OF BOTANY

Date: 11/10/2019

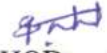
To,
The Principal
KLE'S G.I. Bagewadi college Nipani

Sub-Permission for one day trip
Respected sir,

As per the RCU B.Sc Vth sem syllabus, there is compulsory study tour B. Sc. Vth sem students. So the Department of Botany has organized one day study tour to Prasad Nursery Kognoli & Forest zone near by Kagal on 12th October 2019. Hence we request you to kindly permit us to conduct the study tour. Faculty members of the Botany department & gardeners will accompany the students.

Thanking you

Yours Faithfully


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


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



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Website: www.klegibcollege.com

Ph: 08338-220116, 220416

E-mail: klegibnbotany@gmail.com

DEPARTMENT OF BOTANY

INDEMINITY FORM

We, the under signed BSc. V sem students of G. I. Bagewadi College, Nipani willing to participate in the study tour, undertake and abide our self with following conditions.

2. We will obey the orders of our teacher during the tour period.
2. We undertake that neither our parents nor we will claim the compensation from the authorities of the college, staff, University or from the Government in respect of any loss or injury resulting even in death which we may suffer during the study tour period.

Sl. No.	Student Name	Phone	Signature
1	Jalmani Bhatte	7019499778	JBI
2	Daksha Patel	9591391499	Daksha
3	Chinmayi Indir	7349483533	Chinmayi
4	Megha Sumbad	7259146769	Mumbad
5	Kejal R. Bhoite	8495828681	KeBhoite
6	Priyanka Patkar	9669254569	PPatkar
7	Pranjata Sachane	8867139545	Pranjata
8	Neha Karabane	9535802486	Neha
9	chetana Belavi	8105961406	Chetana
10	Ashwarya Purde	8105624637	Ashwarya
11	Gurusarath Asekar	7892075391	Asekar
12	Abhinandan Kolkopur	8123717123	Abhinandan
13	Pushpadant Upadhye	8792626221	Pushpadant
14	Samiksha Gebise	7676428794	SGebise
15	Nikhita R. Hanar	9591873327	Nikhita
16	Shahida D. Desai	8971599275	Shahida
17	Kamraj Khampure	8792811213	Kamraj
18	Masum S. Panwale	9606702206	Masum
19	Swati M. Pawadare	9980628533	Swati
20	Sanjeevini S. Hasure	8147919408	Sanjeevini
21	Rachana V. Tandle	9380777244	Rachana
22	Saiya Awate	9380777244	Saiya
23	Mridulika Gaur	9535847667	Mridulika
24	Rohini Tharapatkar	9113060804	Rohini
25	Seema Dattwade	9307056949	Seema
26	Soujanya Kamate	9307056949	Skamate
27	Saurabh Pujari	8451256769	Saurabh
28	Pragati P. Patil	8861169950	Pragati
29	Nandini R. Shirogane	9748709331	Nandini
30	Madhuri A. Bhivast	7829116805	Madhuri





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Sl. No.	Student Name	Phone	Signature
31	Neha. P. Patil	9900614035	
32	Pooja. M. Kesarkar	8217785644	
33	Pranjakta v. Patil	9380604767	
34	Nikita J. Magadam	7760463299	
35	Aishwarya B. Kulkarni	8904503844	
36	PARSHWATEE M. PATIL	9741100856	
37	Kash. Datta Savadke	8748908277	
38	K.R. Nasalpure	7090339067	
39	Anil. N. Bhingare	6360392324	
40	Shubham Kedar	8217847416	
41	AKHAY. M. MAGADUM	8867950305	
42	Abhishek. Magadam	8050064687	
43	Pravin. S. Thakur	8217647623	
44	Zainabi. B. Lanpti	9535347180	
45	Sabeel Makhanadar	7892357180	
46	Saahem Borkar	9942525143	
47	Pankaj Praymala	9990805364	
48	Jayesh Pujari	8197991801	
49	Sayyama Bawale	9686227133	
50	Santosh Adalke	9342525143	
51			
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60			

HEAD

Department of Botany
G. I. Bagewadi College, Nipani.

Co-ordinator IQAC

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

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16-17



RANI CHANNAMMA UNIVERSITY, BELAGAVI

WEL-COME

**TO THE COURSE STRUCTRE AND SYLLABUS OF UNDERGRADUATE
PROGRAMMES – B.Sc**

V Semester

w.e.f.

Academic Year 2016-17 and onwards



Semester V
(w.e.f 2016-17)
Botany Paper – II

Paper-II: Ecology, Environmental Biology and Phytogeography **50 hrs**

Objectives:- This paper has topics on pollution, pollution control and forestry. Considering the present scenario with respect to environment these topics are most valuable.

Unit 1: Plant and environment: Atmosphere (gaseous composition), water (properties of water cycle), light (global radiation, photo synthetically active radiation), temperature, soil (development, soil profiles, physico-chemical properties), and biota.

Morphological, anatomical and physiological responses of plants to water (hydrophytes, xerophytes and epiphytes), temperature (thermoperiodicity and vernalization), light (photoperiodism, heliophytes and sciophytes) and salinity.

12 Hrs.

Unit 2: Population ecology and Ecosystems: Growth curves; ecotypes; ecads, Ecological succession-hydrach and xerarch. Structure of Ecosystems (Pond and Forest): abiotic and biotic components; food chain, food web, ecological pyramids, energy flow.

10 Hrs.

Unit 3: Phytogeography: Botanical regions of world, Vegetation types of Karnataka and India.

06 Hrs.

Unit 4: Conservation of Natural resources: Different types of natural resources and their conservation,

Forest and Forest Management: Forest and its ecological significance, deforestation, forest management and social forestry. Natural depletion of vegetation endangered and threatened economic plants of India and red data book. Wild life management in India, Indian board of wild life, national park and sanctuary.



Energy resources: conventional and non conventional sources of energy.

Biodiversity: significance, types, depletion, conservation of biodiversity.

12 Hrs.

Unit 5: Pollution: Introduction, causes, effects and control measures of Water pollution, Air pollution, Soil pollution, Acid rain, Global warming, and Ozone depletion.

Sewage water and waste water types. Methods of effluent treatment of industrial waste water, sludge disposal and its care related to environment.

10 Hrs.

Practical:

1. Study of frequency and density of herbaceous plants by quadrat method.
2. To determine moisture content and water holding capacity of different types of soils.
3. To estimate the alkalinity of water samples.
4. Ecological instruments.
5. Morphology and anatomical adaptations in three hydrophytes.
6. Morphology and anatomical adaptations in xerophytes: One succulent and one non-succulent, one epiphyte and one halophyte.
7. Waste water analysis, physical chemical parameter, pH, turbidity, TDS, BOD, COD, temperature and any other inorganic elements.
8. Visit to effluent treatment plant to study recycling of waste water near by industry and study the effect of industrial pollution nearby water bodies (Biomagnification & Eutrophication).
9. Assignment of Project related to practical number eight.



10. Study Tour of minimum two days to study forest types and ecological groups.

Books for Reference:

1. Sharma P.D. (1993)-Ecology and Environment – Rastogi Publication, New Delhi.
2. Mishra R. - Ecology Work Book- Oxford and IBH, New Delhi.
3. Agarwal K.C. (1993)- Environmental Biology- Agro Botanical Publishers, Jodhapur.
4. Mishra K.C. (1992)- Manual of Plant Ecology – Oxford & IBH Publication, New delhi.
5. Kochar P.L. (1980) – Plant Ecology – S. Nagin & Co., Jalandhar.
6. Kormandi E.J. (1984)- concept of Ecology- Printice Hall Ind., New Delhi.
7. Asthana R.K. (1998) – Environmental Problems and Solution- S.Chand & Co. Pvt, Ltd., New Delhi.
8. Verma P.S., V.K. Agarwal (1983) – Environmental Biology - S.Chand & Co. Pvt. Ltd., New Delhi.
9. Subramanyam N.S. A.V.S.S. Samburthy (2000)- Ecology- Narosa Publishing House, New Delhi.
10. Sharma D.P. (1993) – Ecology & Environmental Biology- Rastogi Publication, Meerut.
11. Nebel B.J. (1990) – Environmental Science – Printice Hall Indu. Pvt. Ltd. New Delhi.
12. Trivedi R.K. Etal (1987) – Practical Ecology – Anmol Publication, Jodhapur.
13. Rao K.S. (1971) - Fundamentals of Ecology – W.B. Saunders co. Philadelphia.
14. Shukla R.S. & Chandel P.S. (2000) – Plant Ecology – S.Chand & Co. Pvt. Ltd., New delhi.
15. Odum, E.P 1983. Basic Ecology, Saunders, Philadelphia.



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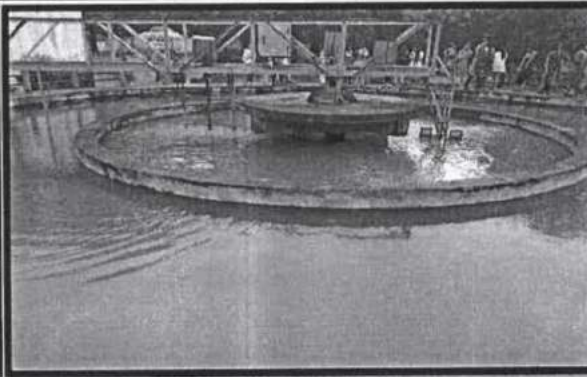
Ref.: E:/E/Study tour

Date: 26.10.2019

Report on Study Tour/Field Visit for the year 2019-20

Name of the Department	Botany
Name of the Event Organized	Visit to Javaharalal Nehru Lake, Arjunnagar
Title of the Event	Study Water purification
Date of the Event Organized	24.10.2019
Name of the faculty accompanied	Smt. S.S.Sunnal Miss. P.B.Meghannavar Miss. Afreen Maniyar
Participants	V semester Botany Studens
No. of Participants	Total 51 Teachers 03 Students 48 Others -
Objectives of the Event	To Know the method of water Purification
Outcome of the Event	Understood and learnt the method of water purification

Photo Gallery




HOD
HEAD
Department of Botany
G. I. Bagewadi College, Nipani.


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


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DEPARTMENT OF BOTANY

Date: 24/10/2019


To,
The Principal
KLE'S G.I. Bagewadi college Nipani

Sub-Permission for one day trip
Respected sir,

As per the RCU B.Sc Vth sem syllabus, there is compulsory study tour B. Sc. Vth sem students. So the Department of Botany has organized one day study tour to Jawaharlal Nehru lake 24th October 2019. Hence we request you to kindly permit us to conduct the study tour. Faculty members of the Botany department will accompany the students.

Thanking you

Yours Faithfully


HOD **Head**
Department of Botany
KLE's G. I. B. College, Nipani.


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



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Ph.: 08338-220116

DEPARTMENT OF BOTANY

Ref.: Bot/E:/E:/CR I/ Study Tour

Date:

S.No	Year	Places visited	Class	Days	No. of Students	Staff in charge
1.	2019-20	Visit to Javaharlal Nehru lake, Arjunnagar	VI sem	1 Day	48	Smt. S.S.Sunnal, Miss. Afreen Maniyar, Ms. P.B.Meghannavar

Sl.No	VI sem students' List 2019-20	Sl.No	V I sem students' List 2019-20
1	Abhinandan Kolapure	25	Pratiksha Suryavamshi
2	Abhishek Magadam	26	Pravin Chougala
3	Aishwarya Killedar	27	Priyanka Palakar
4	Akshay Magadam	28	Pushpadant Upadhye
5	Anil Bhingare	29	Rohini Tharapatti
6	Chetana Belavi	30	Rutuja Patil
7	Chinmayi Indi	31	Sabil Makandar
8	Daksha Patel	32	Sachin Badakar
9	Gurunath Arekar	33	Samiksha Gibise
10	Janhavi Bhatale	34	Sanjeevini Hasure
11	Kajal Bhoite	35	Santosh Adake
12	Kamartaj Khanapure	36	Sayyam Havale
13	Kashinath Savantre	37	Seema Datawade
14	Kenchappa Nasalapure	38	Shahida Desai
15	Madhuri Bhivase	39	Shubham Kodane
16	Masum Panawale	40	Soujanya Kamate
17	Meenakshi Gurav	41	Sourabh Pujari
18	Megha Sumbad	42	Sumit Chougule
19	Nandini Shiraganve	43	Swati Tawadare
20	Neha Kadakane	44	Umesh Pujari
21	Nikhita Havale	45	Yogesh Pujari
22	Nikita Magadam	46	Zainabi Langoti
23	Pooja Kesarkar	47	Rohan Manjarekar
24	Pranjali Potadar	48	Saniya Awate


HOD

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IQAC Coordinator

Co-ordinator IQAC
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Principal
PRINCIPAL

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D. III Descriptive Answers

21. From Unit 1: Cell Biology: 01 sub question. 1 X 10 = 10

OR

From Unit 2: Morphology of Chromosomes-01 sub question.

22. From Unit 3: Cell division: 01 sub question. 1 X 10 = 10

OR

From Unit 4: Genetics: 01 sub question.

23. From Unit 4: Genetics: 01 sub questions. 1 X 10 = 10

OR

From Unit 5: Evolution: 01 sub question.

B.Sc VI semester

(w.e.f 2016 -17)

Botany paper -II

(Molecular Biology, Biotechnology & Immunology)

50 hrs

Objectives: - Molecular Biology, Biotechnology and Immunology has some recent trends in the concern fields. This will help students to pursue research in concerned fields.

Unit 1: Nucleic Acids: DNA & RNA, occurrence, types and chemical compositions.

Experimental evidences for DNA as genetic material. Structure of DNA, Replication, semiconservative method, RNA and types, post transcription changes.

10 Hrs.

Unit 2: Gene Expression: Gene concept, Genetic code & protein synthesis. Regulation of gene expression in prokaryotes & eukaryotes.

08Hrs.

Unit 3: Recombinant DNA technology and Bioinformatics:

Enzyme, vector (plasmid PBR 322), marker gene, Steps of cloning technique, PCR and its application, Genomic DNA and cDNA library. Brief concept on Genomics and proteomics.

08 Hrs.

Unit 4: Biotechnology and Genetic engineering of plants:

Basic concepts, principles and scope. Aims, strategies for development of transgenic plants (with suitable example). Agrobacterium-The natural genetic engineer. T-DNA and transposon mediated Gene tagging, intellectual. Property rights, possible ecological risks and ethical concerns.

12Hrs.

Unit 5: Microbial genetic manipulation and Immunology:

Microbial genetic manipulation: Bacterial transformation, selection of recombinant and transformants, genetic improvement of industrial microbes, nitrogen fixers & fermentation technology.

Immunology: Immuno-systems, Immunotechniques in Agriculture, ELISA method to detect Plant diseases & Monoclonal antibodies.

12 Hrs.

Practicals:

1. DNA estimation by DPA diphenyl amine method.
2. RNA estimation by orcinol method.
3. Extraction and estimation of protein from plant source.
1) Salt precipitation method 2) solvent method
4. Culturing of Rhizobium-YEMA media.
5. Culturing of Azotobacteria-ASHBY'S media.
6. Demonstration of Electrophoresis technique
7. Agarose gel electrophoresis.
8. Demonstration and comparison of GM Plants with Non GM Plants (BT- Cotton, BT-Brinjal, BT Tomato).
9. Visit to Biotechnology Research Laboratory.



DEPARTMENT OF BOTANY

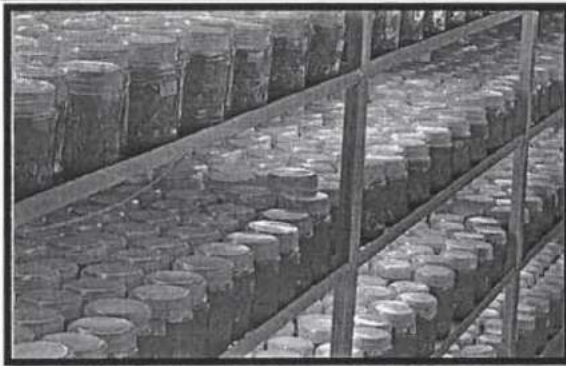
Ref.: E:/E/Study tour

Date: 08.03.2021

Report on Study Tour/Field Visit for the year 2019-20

Name of the Department	Botany
Name of the Event Organized	One day Visit
Title of the Event	Visit to Seema biotech lab
Date of the Event Organized	5.03.2021
Name of the faculty accompanied	Smt. S.S.Sunnal Dr.Smt.S. P.Shiragave
Participants	VI semester Botany students
No. of Participants	Total 45 Teachers 2 Students 43 Others
Name of the Expert with Designation	Mr. Vishwas Chavan
Contact Number & Address of the Expert	Mob.No 9822547622 Proprietor and Entepreuner of Seema Biotech Lab
Objectives of the Event	To Study tissue culture techniques. To Study green house types.
Outcome of the Event	Students were able to see the tissue culture techniques and learnt green house and shade house technology

Photo Gallery



Seema Biotech Tissue culture Lab




**HOD
HEAD**
Department of Botany
G. I. Bagewadi College, Nipani.


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


**PRINCIPAL
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DEPARTMENT OF BOTANY

Date: 3/3/2020

To,
The Principal
KLE'S G.I. Bagewadi College, Nipani

Sub-Permission for one day study tour

Respected sir,

As per the RCU B.Sc VIth sem syllabus, there is compulsory study tour B. Sc. VIth sem students. So the Department of Botany and Zoology has organized one day study tour to Seema biotech at Talasande and Warana Dairy at Warananagar on 5th March 2020. Hence we request you to kindly permit us to conduct the study tour. Faculty members of the Botany and Zoology department & gardeners will accompany the students.

Thanking you

Yours Faithfully

HOD

Head

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

Principal

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

SHREE WARANA SAHAKARI DUDH
UDAPADAK PRAKRIYA SANGH LTD.
Tatyasheb Kore Nagar,
Post Warananagar,
Tal. Panhala, Dist. Kolhapur - 416 113



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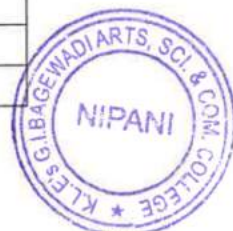
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DEPARTMENT OF BOTANY

List of students Seema biotech at Talasande and Warana Dairy at
Warananagar on 05th March 2020.

Sl. No.	Reg. No.	Name	Signature
1	S1717602	Abhinandan Kolapure	
2	S1717604	Abhishek Magadum	Abhishek
3	S1717605	Aishwarya Killedar	Aishwarya
4	S1717610	Aishwarya Punde	
5	S1717614	Akshay Magadum	Akshay
6	S1717618	Anil Bhingare	Anil
7	S1717628	Chetana Belavi	Chetana
8	S1717629	Chinmayi Indi	Chinmayi
9	S1717630	Daksha Patel	Daksha
10	S1717639	Gurunath Arekar	Gurunath
11	S1717643	Janhavi Bhatale	Janhavi
12	S1717647	Kajal Bhoite	Kajal
13	S1717648	Kamartaj Khanapure	Kamartaj
14	S1717649	Kashinath Savantre	Kashinath
15	S1717652	Kenchappa Nasalapure	Kenchappa
16	S1717659	Madhuri Bhivase	Madhuri
17	S1717666	Masum Panawale	Masum
18	S1717669	Meenakshi Gurav	Meenakshi
19	S1717670	Megha Sumbad	Megha
20	S1717673	Nandini Shiraganve	Nandini
21	S1717675	Neha Kadakane	
22	S1717676	Neha Patil	Neha
23	S1717677	Nikhita Havale	Nikhita
24	S1717678	Nikita Magadum	Nikita
25	S1717681	Parshwajeet Patil	
26	S1717683	Pavan Payamalle	
27	S1717687	Pooja Kesarkar	Pooja
28	S1717693	Prajakta Bachane	
29	S1717694	Prajakta Patil	
30	S1717697	Pranjali Potadar	
32	S1717702	Pratiksha Suryavamshi	Pratiksha
33	S1717703	Pravin Chougala	
34	S1717705	Prithviraj Narayankar	





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Sl. No.	Reg. No.	Name	Signature
35	S1717708	Priyanka Palakar	
36	S1717712	Pushpadant Upadhye	
37	S1717713	Rachana Tandale	
38	S1717718	Ramizraja Makandar	
39	S1717721	Rohini Tharapatti	
40	S1717723	Rutuja Patil	
41	S1717724	Sabil Makandar	
42	S1717725	Sachin Badakar	
43	S1717729	Samiksha Gibise	
44	S1717731	Sana Soudagar	
45	S1717732	Saniya Awate	
46	S1717733	Sanjeevini Hasure	
47	S1717734	Sanket Jadhav	
48	S1717735	Santosh Adake	
49	S1717738	Sayyam Havale	
50	S1717739	Seema Datawade	
51	S1717740	Shahida Desai	
52	S1717748	Shubham Kodane	
53	S1717756	Soujanya Kamate	
54	S1717758	Sourabh Pujari	
55	S1717761	Sumit Chougule	
56	S1717768	Swati Tawadare	
57	S1717771	Umesh Pujari	
58	S1717777	Yogesh Pujari	
59	S1717778	Zainabi Langoti	
60	S1714517	Rohan Manjarekar	

HEAD

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B.Sc II Semester Syllabus

ZOOLOGY (Optional) 2017-18 Onwards

Total Marks-80

Total Teaching-50hrs.

Biology of Chordates

UNIT-I

Chordates: General characters and classification. **8 hrs**

1. Sub-phylum:Hemichordata-External Characters & Digestive system of Balanoglossus.
2. Sub-phylum:Urochordata- External Characters & Retrogressive metamorphosis in Herdmania.
3. Subphylum:Cephalochordata-ExternalCharacters & feeding mechanism in Branchiostoma.
4. Cyclostomata: External Characters &general organisation of Petromyzon & Myxine(Hagfish/Slime).

UNIT-II

Pisces: General characters & Classification of Pisces up to orders **5hrs** with examples. General characters of Chondrichthyes and Osteichthyes.Type study **Scoliodon**-Externals Characters, Digestive system, Reproductive system and Fish migration.

Amphibia: General characters & classification up to orders with **5hrs** Examples. Type study **Frog**- Externals characters, Digestive system, Circulatory & Reproductive system. Axolotl larva & its significance.

UNIT-III

Reptilia: General characters & classification up to orders with **5hrs** Examples. Type study **Calotes**-Externals characters, Digestive system, Circulatory & Reproductive system. Indian poisonous & non-poisonous snakes.

Aves - General characters & Classification up to orders with. **10hrs** Examples Type study **Pigeon**-Externals characters, Digestive System, Respiratory & Reproductive system. Bird migration, Flight adaptations, Flightless birds, Beak & Feet modification.



UNIT-IV

Mammalia: General characters & classification up to orders with **5hrs**
Examples Type study **Rat**-Externals characters, Digestive System. Circulatory, Nervous, Excretory & Reproductive Systems.

Comparative Anatomy:

Origin, development & structure of Heart, Brain **12 hrs**
and integument in Fishes, Amphibians, Reptiles, Aves and Mammals.

PRACTICALS

- | | | Total Practicals -12 |
|----|--|-----------------------------|
| 1. | Classification of Urochordata, Cephalochordata, Cyclostomes
Examples: Balanoglossus, Herdmania, Branchiostoma, Peteromyzon. | 01 |
| 2. | Classification of Fishes -
Examples: Scoliodon, Pristis, Sphyrna, Catla catla, Labeo rohita, Hippocampus, Eel, Exocoetus & Synaptura. | 01 |
| 3. | Classification of Amphibia -
Examples: Frog, Toad, Ichthyophis, Ambystoma, Axolotl Larva & Rhacophorous. | 01 |
| 4. | Classification of Reptilia -
Examples: Calotes, Hemidactylus, Chaemaleon, Mabuya Draco, Naja naja, Python, Viper, Turtle and Crocodile. | 01 |
| 5. | Classification of Aves -
Examples: Psittacula, Owl, Woodpecker, Pigeon and Passer domesticus. | 01 |
| 6. | Classification of Mammalia -
Examples: Sorex, Bat, Loris, Pangolin, Hystrix, Herpetes & Funambulus. | 01 |
| 7. | Study of Comparative Anatomy:
Heart and Brain in Fishes, Amphibians, Reptiles, Aves and Mammals | 02 |
| 8. | Explanation & Demonstration in Bony fish/Shark.
a). External characters
b). Digestive system
c). Reproductive system
d). Mounting of Brain | 04 |



NOTE:

1. With the help of Charts/Models/Diagrams/Printouts & Xerox Sheets are used in practical's demonstration.
2. As per UGC guidelines **Only one** species to be demonstrated by Faculty & students should not do any dissection.
3. Students are supposed to draw neat labelled diagrams & write The explanation in their journal.
4. In practical examination question no I & II are put Charts/ Models/ Diagrams/ Printouts & Xerox Sheets of the system- Students has to identify & write the explanation in their Examination paper.
5. Compulsory Study Tour/ Field visit to study Animal diversity. (Submission of project report carries- 5 marks).

REFERENCE BOOKS

1. Modern Text Book of Zoology Vertebrate-R.L.Kotpal.
2. Chordata – Dhami & Dhami.
3. Vertebrate- Majapuria.
4. Functional Organization of Vertebrate– H Nigam & R.Sobti- Shoban Lal Nagin Chand & Co.
5. A manual of Zoology Vertebrates- M.Ekambarnath Ayyar & Swaminathan Ayyar S. Vishwanath Publisher.
6. The Vertebrates Pisces to Mammalia, Hyman L.H. McGraw Hill Co
7. The Vertebrates – Hyman et al.
8. Text Book of Zoology – Parker T.J. & Haswell W.A. Macmillan Co. London.
9. Biology of Chordates by Dr Harish .C. Nigam.Vishal Publication Lucknow.





K.L.E. Society's

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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

Ref. No.: GIB/

Date: 02/03/2020

DEPARTMENT OF ZOOLOGY

Field Visit – Bird Watching

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

Respected sir,

As a part of curriculum we have arranged one day field visit at Agriculture Research Station, Nipani on 03/03/2020 at early morning 6.30am for the study of different varieties of birds for B.Sc. II Sem students. 57 students have enrolled their names. Miss. S. M. Hegade and will be accompanying the students. This is for your kind information.

Thanking you Sir,


Head of Department

H O D
Department of Zoology
G.I. Bagewadi, NIPANI


Principal

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

**Field Visit- (Bird Watching)Animal diversity
2019-2020**

B.Sc II Sem

Sl.No.	Roll.No.	Name Of The Student
1	1	Aditya Siddanavar
2	2	Akshata Hirekodi
3	3	Ankita Patil
4	4	Aishwarya Alankar
5	5	Gayatri Chavan
6	6	Kiran Waghmode
7	7	Laxmi patil
8	8	Nandini Shinde
9	9	Nikita Arage
10	10	Nikita Chougule
11	11	Padmaja Dooblannavar
12	12	Pallavi Chougule
13	13	Pallavi Kurani
14	14	Pradnya Ingale
15	15	Pratik Shastri
16	16	Pratiksha Kumbar
17	17	Pratiksha Raut
18	18	Pritam Chougule
19	19	Rahul Patil
20	20	Raajashekhar Mathapati
21	21	Rayanna Chikkodi
22	22	Rohan Hanabar
23	23	Rohini Jadhav
24	24	Satwik Desai
25	25	Shital Patil
26	26	Siddharth Varale
27	27	Snehal Shinde
28	28	Somesh Mali
29	29	Sonali Shinde
30	30	Subhodhana Kambale
31	31	Sufiya Nayaghar
32	32	Tushar Patil
33	33	Vinashree Kole
34	34	Vinayakumar Patil
35	93	Ritu Patil
36	198	Abhishek Ambi
37	199	Aishwarya Patil
38	200	Akanksha Badadatti
39	201	Anil Shendre
40	202	Imran Pinjari
41	203	Kiran Valaki
42	205	Nooreshaba Momin
43	206	Shekhar Shendre
44	207	Shruti Solapure
45	208	Sweta Jadhav
46	209	Sourabh Kenawade
47	210	Sushant Patil
48	211	Vaishnavi Patil
49	212	Vinayak Naik



50	213	Zeba Bagalkoti
51	214	Anvita Kurbet
52	215	Sharad Sanadi
53	216	Sourabha Chougule
54	217	Santosh Kareppagol
55	218	Rutuja Nare
56	219	Vidwansharan Patil
57	220	Ashwini Sutar


Department of Zoology
G. I. Bagewadi College, Nipani.


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11.ZOOLOGY (Optional)

**B.Sc IV Semester Scheme (CBSC - Pattern)
Zoology (Optional) Syllabus(Revised)
2018 -19 Onwards**

Semesters	Syllabus	Total Hours	Theory & Practical/ Week
IV	Cell Biology, Histology & Animal Behaviors	50hrs.	4 hrs.
	PRACTICAL	12	4 hrs.

NOTE:

THEORY MARKS			PRACTICAL MARKS		
Internal	Annual	Total Marks	Internal	Annual	Total Marks
20	80	100 marks	10	40	50 marks

Question paper pattern for THEORY examination

Que.No.	Marks	Solve	Total Marks
I	02	10	20
II	04	05	20
III	10	04	40
TOTAL --- 80 MARKS			

PRACTICAL pattern for examination

Que.No.	Solve	Total Marks
I	Make a temporary preparation of Histology slide.	10
II	Make a temporary squash preparation of Onion root tip/Grasshopper Testis/Onion flower bud	08
III	Identification (6X2)	12
IV	Field study report & viva	05
V	Journal	05
TOTAL --- 40 MARKS		



**B.Sc IV Semester Syllabus Revised (2018-19) Onwards
ZOOLOGY (Optional)**

Total Marks--80

Total Teaching--50hrs.

Cell Biology, Histology & Animal Behaviors

UNIT-I Cell Biology

Cell Biology: Ultra structure of animal cell, Cell theory & cell cycle. **1hr**
Ultra Structure & function of cell organelles: Plasma membrane, Endoplasmic reticulum, Ribosome's, Golgi-complex, Lysosomes, Mitochondria and Nucleus. **8hrs**

UNIT-II Cell Biology

Chromosomes: Structure & types of chromosomes. Ultra structure of chromosome. **2hrs**
Cell division: Types- mitosis & meiosis. **2hrs**
Cellular Aging & Cell Death: Concept of Aging theories, Effect of Aging on Cell organelles. Apoptosis, Necrosis-Definition & significance. **2hrs**
Cancer Biology: Introduction, Characteristics of cancer cells. Carcinogens, cause & prevention. **3hrs**

UNIT-III Histology

Histo chemical Techniques: Cytoplasmic & Nuclear stains. **3hrs**
Preparation of histological slides.
A). Study of histological structure and functions of the following Mammalian organs. 8hrs
a). Tongue b). Salivary glands
c). Stomach d). Intestine
e). Liver f). Kidney

UNIT-IV Histology

B). Study of histological structure and Endocrine functions of the following Mammalian organs 9hrs
a) Pituitary b) Pancreas c) Adrenal d) Thyroid
e) Parathyroid f) Thymus g) Testes h) Ovary

UNIT-V Ethology (Animal Behaviour)

Ethology: Introduction Definition, Scope of ethology. Brief Contributions of Konard Lorenz, Niko Tinbergen and Karl Von Frisch. **2hrs**

Types of Animal Behaviour: 7hrs

- 1). Innate Behaviour:** Taxes, Reflexes, Instincts & Motivation.
 - 2). Learned Behaviour:** Habituation, Imprinting, Conditioned, Reflexes and Insight learning.
 - 3). Social behaviour:** Types of animal society & Colony in Honey Bees and Monkey troops.
 - 4). Territoriality & Courtship Behaviour** in Scorpion, Stickle Back Fish & Peacock.
 - 5). Study of nesting behavior and mimicry in animal.**
 - 6). Biological clock, Circadian rhythm and Chronobiology.**
- Animal Communication:** Chemical, visual and Audio. Function of



Signals odours, sounds and light.	2hrs
Parental care: Concepts, Fishes, Amphibians and Birds.	3hrs

PRACTICALS

	Total Practicals-12 hr
1) Study of permanent cytology slides of Mitosis & Meiosis.	2hrs
2) Study of temporary preparation of Mitotic stages from onion Root tip cells.	2hrs
3) Study of temporary preparation of Meiotic stages from onion Flower bud/Grass Hooper testis.	2hrs
4) Preparation and observation of permanent histological slides Stomach, Intestine, Liver, Pancreas, Kidney, Adrenal Thyroid, Testis & Ovary.	4hrs
5) Study of mimicry in leaf insect, Chameleon, Butterflies, Stick Insect, Ants, Wasps and Spiders.	1hr
6) Study of Nest and nesting material.	1hr
7) Internal Practical Test	1hr

NOTE:

1. With the help of Charts/Models/Diagrams/Printouts & Xerox Sheets are used in practical demonstration
2. Compulsory field visit to study Mimicry, Habitats and Community.
3. Submission of field visit report carries 5 marks.

REFERENCE BOOKS

1. Introduction to Histology. Gauba R.K. Tata Mc Graw Hill New Delhi.
2. Cells and Tissues: Introduction to Histology ND Cells :Rogers:A.W. AcademicPress .
3. Basic medical Histology :Biology of cells & tissues & organs Kessel R.G. oupNew York.
4. Text Book of Histology :Bloom and Fawcett.Saunders Publ.Philadelphia.
5. Bailey's Text Book of Histology.Bailee Baltimore,Willims andWilkins.
6. Text Book of Ecology : Odum.
7. Introduction to animal behavior:Aubrey Manning and Marian.S.DawkinsCambridge Uni Press.
- 8.Essentials of organizational behavior:Stephan Robbins,Prentice Hall of IndiaNew Delhi.
9. Animal Behaviour :McFarland D ELBS with Longman.
10. Ethology " Barnett.
11. An introduction to Behavioural Ecology J.R. Krebs & N.B. Davies Black wellScientific Publ.
12. Text Book of Animal Behaviour: Fatik Baran mandal. PHI Learning Pvt Ltd newDelhi.
13. Animal Behaviour :Reena Mathur,Rastogi and Coimpani.
14. Cell Biology -Chennarayappa - Unniversity Press





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Ref. No.: GIB/

Date: 05/02/2020

DEPARTMENT OF ZOOLOGY


Field Visit – Study of Mimicry, Habitat and Community

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

Respected sir,

As a part of curriculum we have arranged one day field visit at Aadi(Nipani) on 06/02/2020 for the study of animal behavior for B.Sc. IV Sem students. 40 students have enrolled their names. Dr.Smt.V.R.Naik, and Smt.S.M.Hegade will be accompanying the students. This is for your kind information.

Thanking you Sir,


Head of Department
HOD
Department of Zoology
G.I. Bagewadi NIPANI


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



48	48	Shrutika Kamate
49	49	Shritika Tele
50	50	Shubhangi Bhojepatil
51	51	Sneha Ingale
52	52	Sneha Ambi
53	53	Sneha Murabatte
54	54	Sneha Patil
55	55	Soumya Magadum
56	56	Sourabh vaigude
57	57	Shrusthi Halagadagi
58	58	Suchita Sapagale
59	59	Sukanya Singannavar
60	60	Sushma Mathapati
61	61	Trupti Kamalkar
62	62	Vaishnavi More
63	63	Varsha Kore
64	64	Abhishek Narayankar


Department of Zoology
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Ref. No.: GIB/

Date: 06/02/2020

Report on - "Study of Mimicry, Habitat and Community"

Name of the Department	Zoology
Name of the Event Organized	Field visit
Title of the Event	"Study of Mimicry, Habitat and Community"
Date of the Event Organized	06/02/2020
Class	B.Sc. IV Sem
Field visit location	Aadi (Nipani)-
Name of the Convener	Dr. V. R. Naik, Associate Prof.
Participants	55
No. of Participants	Total 56 Teachers 01 Students 55
Name of the Expert with Designation	Smt. S. M. Hegade, Assistant Prof.
Contact Number & Address of the Expert	9008396800. A/P-Nipani. Tal-Chikodi, Dist-Belagavi
Objectives of the Event	To study different types of animal behavior and mimicry in nature.
Outcome of the Event	Students learnt how the animals in nature will self defends by the predators
Photo Gallery	
	
Visit To Adi For Study Of Mimicry & Habitat	Mimicry Of Grass Hopper


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Department of Zoology
G.I. Bagewadi NIPANI


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


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Commerce College, NIPANI.



RANI CHANNAMMA UNIVERSITY, BELAGAVI

WEL-COME

**TO THE COURSE STRUCTRE AND SYLLABUS OF UNDERGRADUATE
PROGRAMMES – B.Sc**

V Semester

w.e.f.

Academic Year 2019-20 and onwards



B Sc V Semester (5.1)
Paper-I
ZOOLOGY (optional)

(Ecology, Evolution, Paleontology, Zoogeography, Wild life Conservation)

Total-hours,50

Marks-80

Ecology.

Earth as Living.-Planet. Sub divisions_of ecology, Scope of ecology, Biosphere
1 hr

Abiotic factors ____
Light, Temperature (Effect on Animals and Plants)
2hr

Biotic Factor

Mutualism,Commensalism,Amensialism,Parasitism,Predation
,Competition,Parasitism.
2hrs

Habitats
4hrs

Freshwater habitat — Lotic and Lentic systems
Zonation of Sea,Marine Biota, Esturine ecology, & Mangrooves
Terrestrial habitat — A brief account of Biomes.

Ecological Adaptations — Freshwater, Marine and Terrestrial.

Biogeochemical Cycles - Principles and concepts of Water, Nitrogen, Carbon,
2hrs

Oxygen cycles

Community Ecology-Community structure, Ecological niches, Edge effect,
Stratification, Ecoton.
2hrs

Population Ecology: Density, natality, mortality.Age distribution

Population growth, types and curves.
2hrs



Evolution.

The Solar System Origin of Earth , Origin of Life and its theories	03hrs
The geological time scale	03hrs
Fossils: Definition and Kinds of fossils, How fossils are formed, Methods of Preservation. Connecting links and Living fossils. The importance of fossils	02hrs
Theories of Organic Evolution :	06hrs
Lamarckism, Darwinism, Mutation Theory And the Modern Synthesis Theory;(population gene Pool, Gene Frequency . Variations — gene mutation, chromosomal mutation; Isolation and recombination.Genetic drift,Hardiwiensberg equilibrium)	
Modes of Evolution : Microevolution, Macroevolution and Mega-evolution.	02 hrs
,Evolution of Man and Horse	04 hrs
Paleontology Mesozoic reptiles with a note on Dinosaurs.	03 hrs
Zoogeography: Zoogeographical realms of world , A brief account of Wallace's line	03 hrs
Wildlife Conservation : Wildlife in India,Causes for the depletion of wildlife. Wild Life Conservation Techniques', methods'and measures Brief account of ; IUCN, WWF,Bombay Natural History Society, Indian Board for Wild Life, Red Data Book. Wild Life Act 1972 and its amendments in India,CITES. Project Tiger and Biosphere Reserve.	09hrs



Total -11 Practicals

- 1; Study of fossils (vertebrate(3) and invertebrate(3)).
1hrs
2. Mesozoic reptiles (Ichthyosaur, tyrannosaur, brontosaur, triceratops, archaeopteryx .
1hr
3. Evolution of man (Homo-erectus. Hemo-habills. Homo-neandertalences)
1hr
4. Evolution of Horse
1hr
- 5 ;Connecting links and living fossils (Neopilina, Peripatus, Limulus, Latimaria; Archaeopteryx and Duckbill platypus)
1hr
- 6 Study of threatened Animals of India (Tiger,Lion,singal horned rhinoceros
1hr
Musk deer,gaur,Golden langur,Loin tailed monkey.Python)
1hr
- 7 ;Estimation of CO_2 from different water samples
1hr
- 8; Estimation of dissolved oxygen
1hr
- 9; Estimation of Total hardness
1hr
- 10;Study of Ecological Adaptations and Morphological peculiarities,;ex-Hermit crab, 1hr
Draco,Stick insect,puffer fish,Exocoetus,Phrynosoma,chamaeleon and Bat.
- 11;Visit to nearby water body to study Ecosystem
1hr

REFERENCE BOOKS:-

Evolution : Odum

Organic Evolution: N.Arumugam

Evolution, Dobzhansky, Ayala, Stebbins & Valentine

Environmental Biology. Rastogi and Company, Meerut

Evolution of the Vertebrates, Colbert E.H. John Wiley and Sons, New York

Ecology; Principles and Application. Chapman, Cambridge university press

Environmental Biology P.R. Trivedi and Gurudeep Raj.

Recent Advances in Environmental Biology – Diwan and D.K. Arora

Environmental Science; Eldon D. Enger and Bradley F. Smith



Suggestions for Practical Examination

SEM—V-5.I

Q. NO I) Estimation of Carbondioxide/O xgen/Total hardness	8marks
Q.NO II) Evolution (Two spottings)	4 marks
Q NO III) Fossils (Two spottings)	4 marks
Q NO IV) Identification (Zoogeography & Wild life)	4 marks
Q NO V) Project on Local Biodiversity	10 marks
Q NO. VI Viva	5 marks
Q NO. VII Journal	5 marks

Note 1 :- Examiners can alter the Scheme of marks for practical in consultation with the staff of the host college.

marks	Note :2	Theory	Internal	20
marks			Final	80
marks		Practical	Internal	10
marks			Final	40

Note 3: Question paper pattern for THEORY examination

	Q No. 1	02 marks = 20 marks	10* 02	
30 marks	Q No. II	05 marks	06* 05	=
10 marks	Q No. III	10 marks	01* 10	=
10 marks	Q No. IV	10 marks	01* 10	=



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Ref. No.: GIB/

Date: 28/09/2019

DEPARTMENT OF ZOOLOGY

Field Visit – Study of Ecosystem

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

Respected sir,

As a part of curriculum we have arranged one day field visit at Jawaharlal Nehru Talaw, Nipani on 29/09/2019 at early morning 8.30am for the study of Ecosystem for B.Sc. V Sem students. 30 students have enrolled their names. Dr.Smt.V.R.Naik, Smt.K.I.Pattan and V.N.Moodangi will be accompanying the students. This is for your kind information.

Thanking you Sir,


Head of Department

Department of Zoology
G.I. Bagewadi College, NIPANI


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



(Study of Ecosystem) Study Tour
2019-2020 **V Sem P-1**

Sl.No	Roll.No	Name of the student
1	105	Abhinandan Kolhapure
2	106	Abhishek Magadum
3	107	Aishwarya Killedar
4	108	Aishwarya Punde
5	109	Akshay Magadum
6	110	Anil Bhingre
7	111	Chetana Belavi
8	112	Chinmayi Indi
9	113	Daksha Patel
10	114	Gurunath Areklar
11	115	Janavi Bhatle
12	116	Kajal Bhoite
13	117	Kamarataj Khanapure
14	118	Kashinath Savantre
15	119	Kenchappa Nasalapure
16	120	Madhuri Bhivashe
17	121	Masum Panawale
18	122	Meenakshi Gurav
19	123	Megha Sumbad
20	124	Nandini Shiragave
21	125	Neha Kadakane
22	126	Neha Patil
23	127	Nikita Havale
24	128	Nikita Magadum
25	129	Parshwjeet Patil
26	130	Pavan Payamalle
27	131	Pooja Kesarkar
28	132	Prajakta Bachane
29	133	Prajakta Patil
30	134	Pranjali Potadar
31	135	Pratiksha Suryavanshi
32	136	Praveen Chougala
33	137	Prithviraj Naraynakar
34	138	Priyanka Palkar
35	139	Pushpadant Upadhye
36	140	Rachana Tandale
37	141	Ramizraj Makandar
38	142	Rohini Tharapatti
39	143	Rutuja Patil
40	144	Sabeel Makandar
41	145	Sachin Badkar
42	146	Samiksha Gebise
43	147	Sana Siudagar
44	148	Saniya Awate
45	149	Sanjeevani Hasure
46	150	Sanket Jadhav
47	151	Santosh Adake
48	152	Sayyam Havale
49	153	Seema Dattawade



50	154	Shahida Desai
51	155	Shubham Kodane
52	156	Soujanya Kamate
53	157	Souirabh Pujari
54	158	Sumit Chougale
55	159	Swati Tawadare
56	160	Umesh Pujari
57	161	Yogesh Pujari
58	162	Zainabi Langute
59	163	Rohan Manjarekar

hy
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Ref. No.: GIB/

Date: 29/09/2019

REPORT ON- "STUDY OF LOCAL BIODIVERSITY"

Name of the Department	Zoology
Name of the Event Organized	Field visit
Title of the Event	"Local biodiversity"
Date of the Event Organized	29.09.2019
Class	B.Sc V Sem
Field visit location	Jawaharlal Nehru Talaw, Nipani
Name of the Convener	Dr.Smt.V.R.Naik
Participants	59
No. of Participants	Total 59 Teachers 02 Students 57
Name of the Expert with Designation	Smt. K.I.Pattan, Assistant Prof.
Contact Number & Address of the Expert	9886434044 A/P: Nipani TQ: Chikkodi Dist: Belgaum
Objectives of the Event	Study of biotic and abiotic factor and there inter relations.
Outcome of the Event	It is awareness program to student they will learn how learn to protect the environment.
Photo Gallery	
	
Field Visit to Nehru Talaw	Field Visit to Nehru Talaw


HOD

Department of Zoology
G. I. Bagewadi College, Nipani.


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


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Rani Channamma University, Belagavi
B.Sc VI Semester _ 6.1

Paper I

Total hours – 50
Marks _ 80
Theory 4 hrs/week

APPLIED ZOOLOGY (optional)

Sericulture : Mulberry Silkworm and Life History of Bombyx mori

07 hrs

Rearing of Silkworm: Grainage management, Emergence of moth and fertilization, egg laying, hatching and moulting of-silkworm, spinning of cocoons, Cocoon processing, stiffling and spinning silk. Filature. Non mulberry silkwarm, types. in brief & Silkworm diseases- Muscardine, Grasserie, Flacherie & Pebrine.

Apiculture: Species of Honey Bees, their Social organization, Life History

05 hrs

Methods of Bee Keeping, products of Bees, & their Economic importance

Insect Pest Management : Natural control and Applied control of pests

05 hrs

Applied Control __ Mechanical, Physical, Cultural, Legal, Chemical control

Vermiculture: Eerthworm species used in vermiculture,vermiculture technique,and Importance of vermiculture.

04 hrs

Aquaculture :

10 hrs

Prawn Fisheries, Species of Prawns, Culture of freshwater and marine Prawns, Preservation and processing of Prawns.

Pearl Culture : Pearl producing molluscans, Pearl formation, Pearl producing

Sites in India. Quality and composition of Pearl.

Pearl Industry:Artificial Insertion of nucleus

Brief technique of Fish culture, Preservation of fishes and their

Byproducts



Poultry : Breeds of fowl, Diseases of poultry, Poultry maintenance and By-products, and CoMposition and Nutritive value of Egg.

06 hrs

Animal Husbandary: Maintenance, Breeds Diseases, Products and By Products of the following

10 hrs

Sheep and Goats, Cow and Buffalos, Composition and Nutritive value of Milk

Lac culture: Classification of Lac insect (Techardia lacca, Life history of Lac

Insect. Host plants, Cultivation of Lac. Compostion and properties & Economic importance

3 hrs.

**Practicals – 6.1
Practicals**

Total -11

1. Project on any of the applied branch studied in theory 1
2. Study of mulberry silkworm and Life cycle 1
3. Types of non mulberry silkworms in brief and Silkworm diseases (Pebrine, Muscardine and Grasserie & Flaturie) 1
4. Species and castes of honeybees 1
5. Agricultural pests and domestic pests (total 8 varieties) 1
6. Study of fisheries __ Molluscs (three), Crustaceans (three) And Pisces (six) 1
7. Study of Varieties of sheep and goat (from chart/photographs) 1
8. Study of varieties of Cow & Buffalos(from chart/photographs) 1
9. Vermiculture__ Study of types of Earthworm species 1
- 10 Study of poultry breeds 1
- 11 Study of Lac insect (Life cycle) 1



Scheme for practicals 6.1 APPLIED ZOOLOGY

Q No. I	Sericulture	03 marks
Q No. II	Apiculture	03 marks
Q No. III	Pest management	03 marks
Q No. IV	Pisciculture	03 marks
Q No. V	Vermiculture	03 marks
Q No. VI	Animal Husbandry	06 marks
Q No. VII	Prawn & Pearl culture	04 marks
Q No. VIII	Project report & Viva	10 marks
Q No. IX	Journal	05 marks

Total 40 marks

Note 1 :Examiners can alter the Scheme of marks for practical in consultation With the staff of the host college.

Note 2 : Theory	Internal	20 marks
	Final	80 marks
Practical	Internal	10 marks
	Final	40 marks

Note 3 : Question paper pattern for THEORY examination

Q No. I marks	02 marks	10* 02	= 20
Q No. II marks	05 marks	06* 05	= 30
Q No. III marks	10 marks	01* 10	= 10
Q No. IV marks	10 marks	01* 10	= 10
Q No. V marks	10 marks	01* 10	= 10

Note 4 : Q Nos IIIrd IV & V each should have one internal option





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Ref. No.: GIB/

Date: 12/02/2020

DEPARTMENT OF ZOOLOGY

Field Visit – Applied Zoology

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

Respected sir,

As a part of curriculum we have arranged Field Visit on 13/02/2020 to study about applied zoology about Dairy Farming, Sericulture, Vermiculture, Poultry Farming, and Insect Pest Management for B.Sc. VI Sem students. 59 students have enrolled their names. Smt. S. M. Hegade and Smt. V.N. Moodangi will be accompanying the students. This is for your kind information.

Thanking you Sir,


Head of Department
HOD
Department of Zoology
G.I. Bagewadi NIPANI


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





UNIVERSITY OF AGRICULTURAL SCIENCES, DHARWAD
AGRICULTURAL RESEARCH STATION, NIPANI-591 237
Post Box No.25, E-mail: arsnipani@uasd.in
Phone: 08338-220130

No.ARSN/Est/ /2019-20

Date: 13.02.2020

To,

The Principal
G.I.Bagewadi College
NIPANI-591 237

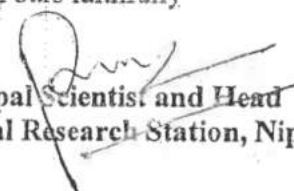
Sir,

Sub: Visit of students to dairy unit reg...

The students of 6th semester B.Sc. along with staff members of G.I.Bagewadi College, Nipani visited the dairy unit of Agricultural Research Station, Nipani and collected the related information.

Thanking you,

Yours faithfully


Principal Scientist and Head
Agricultural Research Station, Nipani



Yours faithfully

Principal Scientist and Head
Agricultural Research Station, Nipani

(Study Of Applied Zoology) Field Visit

2019-2020

B.Sc VI Sem P-1

Sr.No	Roll.No	Name of the student	Name of the project
1	105	Abhinandan Kolhapure	Dairy Farming
2	106	Abhishek Magadum	Dairy Farming
3	107	Aishwarya Killedar	Dairy Farming
4	108	Aishwarya Punde	Dairy Farming
5	109	Akshay Magadum	Dairy Farming
6	110	Anil Bhingre	Dairy Farming
7	111	Chetana Belavi	Dairy Farming
8	112	Chinmayi Indi	Dairy Farming
9	113	Daksha Patel	Dairy Farming
10	114	Gurunath Areklar	Dairy Farming
11	115	Janavi Bhatle	Dairy Farming
12	116	Kajal Bhoite	Dairy Farming
13	117	Kamarataj Khanapure	Dairy Farming
14	118	Kashinath Savantre	Dairy Farming
15	119	Kenchappa Nasalapure	Dairy Farming
16	120	Madhuri Bhivashe	Dairy Farming
17	121	Masum Panawale	Dairy Farming
18	122	Meenakshi Gurav	Dairy Farming
19	123	Megha Sumbad	Dairy Farming
20	124	Nandini Shiragave	Dairy Farming
21	125	Neha Kadakane	Dairy Farming
22	126	Neha Patil	Dairy Farming
23	127	Nikita Havale	Dairy Farming
24	128	Nikita Magadum	Dairy Farming
25	129	Parshwjeet Patil	Poultry farming
26	130	Pavan Payamalle	Poultry farming
27	131	Pooja Kesarkar	Poultry farming
28	132	Prajakta Bachane	Poultry farming
29	133	Prajakta Patil	Sericulture
30	134	Pranjali Potadar	Sericulture
31	135	Pratiksha Suryavanshi	Sericulture
32	136	Praveen Chougala	Sericulture
33	137	Prithviraj Naraynakar	Insect Pest Management
34	138	Priyanka Palkar	Insect Pest Management
35	139	Pushpadant Upadhye	Insect Pest Management
36	140	Rachana Tandale	Insect Pest Management
37	141	Ramizraj Makandar	Insect Pest Management
38	142	Rohini Tharapatti	Insect Pest Management
39	143	Rutuja Patil	Insect Pest Management
40	144	Sabeel Makandar	Insect Pest Management
41	145	Sachin Badkar	Insect Pest Management
42	146	Samiksha Gebise	Insect Pest Management
43	147	Sana Siudagar	Insect Pest Management
44	148	Saniya Awate	Insect Pest Management
45	149	Sanjeevani Hasure	Vermiculture
46	150	Sanket Jadhav	Vermiculture
47	151	Santosh Adake	Vermiculture
48	152	Sayyam Havale	Vermiculture
49	153	Seema Dattawade	Vermiculture



50	154	Shahida Desai	Vermiculture
51	155	Shubham Kodane	Vermiculture
52	156	Soujanya Kamate	Vermiculture
53	157	Souirabh Pujari	Insect Pest Management
54	158	Sumit Chougale	Insect Pest Management
55	159	Swati Tawadare	Insect Pest Management
56	160	Umesh Pujari	Insect Pest Management
57	161	Yogesh Pujari	Insect Pest Management
58	162	Zainabi Langute	Insect Pest Management
59	163	Rohan Manjarekar	Insect Pest Management


Department of Zoology
G. L. Bagewadi College, Nipani.


PRINCIPAL
G.L. 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



Affiliated to Rani Channamma University, Belagavi, Karnataka, India

Website: WWW.Klegibnnpn.edu.in E-mail: klegib_npn@yahoo.co.in Ph: 08338-220116

Ref. No.: GIB/

Date: 14/02/2020

REPORT ON "APPLIED ZOOLOGY"

Name of the Department	Zoology
Name of the Event Organized	Applied Zoology
Title of the Event	Different Branches Of Applied Zoology
Date of the Event Organized	13/02/2020
Class	B.Sc. VI Sem
Name of the Convener	Dr. V. R. Naik
Participants	60
No. of Participants	Total 60 Teachers 01 Students 59
Name of the Expert with Designation	Miss. Sampada Hegade
Contact Number of the Expert	9008396800 A/P: Nipani Tq: Chikkodi Dist: Belagavi
Objectives of the Event	1.To know about Different breeds of sheep and goats 2.To Study the sericulture
Outcome of the Event	1. They got knowledge about poultry farming.. 2.They are the best acceptable disposal of waste, ways for quality, environment & organic farming from vermiculture
Photo Gallery	
	
Vermicomposting	Dairy Breeds Of Cows

les
HOD
HOD
Department of Zoology
G.I. Bagewadi NIPANI

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

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

B.Sc Sixth semester (6.2) Paper II (Microbiology and Modern techniques in Biology)

Microbiology (18 Hours)

SMH Microscopy: Compound microscope and its functions. Dark field microscope, Fluorescent microscope, Phase Contrast Microscope and Electron Microscope
Uses of different types of microscopes

VRNS Sterilization and other techniques: Physical and chemical methods

SMH Bacteria: Classification based on shapes, structure. Bacterial reproduction and growth.

SMH Virus: Morphology, chemical properties, classification, nomenclature, DNA & RNA viruses

KIP Fungi: Structure, classification and reproduction, Yeasts

Fermentation: Types of fermentor and basic functions. Methods of preservations and criteria for the selection of microorganisms

Production of antibodies: Penicillin, Streptomycin, Enzyme protease, Riboflavin 2

VRNS Oral microbial flora of the human body
Role of microbes in environment

Nanotechnology: (5 Hrs)

SMH Introduction, History, Name, Tools and Techniques in Nanotechnology.
Nanobiology - application of Nano in biology- Nano drug administration, diagnostic
And therapeutic applications. Lotus effect, Gold and Silver Nanotechnology.
Curcumin phytochemicals, Cinnamon in green nano technology

Bioinformatics (7 Hrs)

Introduction: Definition, Goal of Bioinformatics, Sequencing - Sequences analysis and Structure analysis. Applications of Bioinformatics

Classification of Biological Data Bases. Characteristics of FASTA (Fast Alignment), BLAST (Basic Local Alignment Search Tool)

Aims and goals of Human Genome Project: Main findings of human genome project.
Prediction and tools for gene prediction. Comparative genomics

SMH Proteomics: Two dimensional Gel Electrophoresis Mass spectrometry, SDS_PAGE. Structure of protein: Primary, Secondary, Tertiary and Quarternary.

Protein structure prediction [Ab initio modeling Example Rosetta]
Application of Proteome analysis, the future of Proteomics

Methods in Biology (10 Hours)

Techniques of cell fraction and centrifugation.

Homogenization and cell tissue disruption, centrifugation, ultra centrifugation

SMH DNA sequencing, in situ hybridization, DNA microchips

Genetic engineering in animals - Transgenic mouse, Transgenic sheep,

Genetically altered fish, mosquito and Drosophila.

Gene therapy in Humans

Histochemical and Immunization Techniques: ELISA, RIA, Flow cytometry

Nucleic acid blotting & their applications: Southern blotting, Northern blotting, Western blotting

Radioisotopes: Techniques in Biochemistry. Types of radioactive decay- Alpha, Beta emission & Gamma rays

Biological applications of Radioisotopes

Research Methodology: (10 Hours) KIP

Meaning and objectives of research, motivation in research, research and scientific method, understanding the research problem, Sampling Design (Sample Survey), methods of data collection, analysis of data, Interpretation and report writing, role of computer in research

**Question paper pattern for theory examination
B.Sc Sixth Semester (Paper – II)**

Q. I	2 marks	12 questions to be given	Solve any 10	20 marks
Q. II	5 marks	6 questions to be given	Solve any 5	30 marks
Q. III	10 marks	2 questions to be given	Solve any 1	10 marks
Q. IV	10 marks	2 questions to be given	Solve any 1	10 marks
Q. V	10 marks	2 questions to be given	Solve any 1	10 marks

B.Sc Sixth Semester (Practical II) Practical Syllabus Total Practicals – 11

1.	Measurement of micro organisms (Micrometry)	1 Practical
2.	Preparation of liquid medium (Broth)	1 Practical
3.	Preparation of solid media (PDA medium and PDA plates)	1 Practical
4.	Preparation of agar slants.	1 Practical
5.	Study of different types of bacteria, viruses and fungi causing diseases in man	1 Practical
6.	Bacterial cell counting using haemocytometer.	1 Practical
7.	Simple and Grams's staining differentiation of bacteria	1 Practical
8.	Isolation, Identification and enumeration of Bacteria/Protozoa from moist soil or sewage water	1 Practical
9.	Practical application of Bioinformatics: Tool BLAST and FASTA to find out sequence of nucleotides in undesired gene/Amino acid in desired protein	1 Practical
10.	Study of Microbiological Lab Equipments: Microscope, Centrifuge, Autoclave, Pressure cooker, Laminar air flow, Streak Plate, Inoculation needle etc.	2 Practicals

Question paper pattern for practical examination

I	Microbiology, Nanotechnology	8
II	Bioinformatics	6
III	Spotting (1 each from bacteria, virus, fungi)	6
IV	Viva	5
V	Submission of detailed report on specific local problem (research)	10
VI	Journal	5

Total 40



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.Klegibnpn.edu.in E-mail: klegib_npn@yahoo.co.in Ph: 08338-220116

Ref. No.: GIB/

Date: 04.03.2020

DEPARTMENT OF ZOOLOGY

Study Visit – Specific Local Problem (Research Methodology)

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

Respected sir,

As a part of curriculum we have arranged one day Study visit to Nipani for the study of Occupational health hazard of women Beedi workers of Nipani on 05.03.2020 for B.Sc.VI Sem students. 59 students have enrolled their names. Smt. K. I. Pattan will be accompanying the students. This is for your kind information.

Thanking you Sir,

Head of Department
Department of Zoology
G. I. Bagewadi College, Nipani.

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

Study Visit-Specific Local Problem(Research Methodology)

2019-2020

VI Sem P-2

Sr.No	Roll.No	Name of the student
1	105	Abhinandan Kolhapure
2	106	Abhishek Magadum
3	107	Aishwarya Killedar
4	108	Aishwarya Punde
5	109	Akshay Magadum
6	110	Anil Bhingre
7	111	Chetana Belavi
8	112	Chinmayi Indi
9	113	Daksha Patel
10	114	Gurunath Areklar
11	115	Janavi Bhatle
12	116	Kajal Bhoite
13	117	Kamarataj Khanapure
14	118	Kashinath Savantre
15	119	Kenchappa Nasalapure
16	120	Madhuri Bhivashe
17	121	Masum Panawale
18	122	Meenakshi Gurav
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20	124	Nandini Shiragave
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22	126	Neha Patil
23	127	Nikita Havale
24	128	Nikita Magadum
25	129	Parshwjeet Patil
26	130	Pavan Payamalle
27	131	Pooja Kesarkar
28	132	Prajakta Bachane
29	133	Prajakta Patil
30	134	Pranjali Potadar
31	135	Pratiksha Suryavanshi
32	136	Praveen Chougala
33	137	Prithviraj Naraynakar
34	138	Priyanka Palkar
35	139	Pushpadant Upadhye
36	140	Rachana Tandale
37	141	Ramizraj Makandar
38	142	Rohini Tharapatti
39	143	Rutuja Patil
40	144	Sabeel Makandar
41	145	Sachin Badkar
42	146	Samiksha Gebise
43	147	Sana Siudagar
44	148	Saniya Awate
45	149	Sanjeevani Hasure
46	150	Sanket Jadhav
47	151	Santosh Adake



48	152	Sayam Havale
49	153	Seema Dattawade
50	154	Shahida Desai
51	155	Shubham Kodane
52	156	Soujanya Kamate
53	157	Sourabh Pujari
54	158	Sumit Chougale
55	159	Swati Tawadare
56	160	Umesh Pujari
57	161	Yogesh Pujari
58	162	Zainabi Langute
59	163	Rohan Manjarekar


Department of Zoology
G. I. Bagewadi 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
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Website: WWW.Klegibnpn.edu.in E-mail: klegib_npn@yahoo.co.in Ph: 08338-220116

Ref. No.: GIB/

Date: 05/03/2020

Report on - "Study of Specific Local Problem (Research Methodology)"

Name of the Department	Zoology
Name of the Event Organized	Study Visit
Title of the Event	Occupational health hazard of women beedi workers of Nipani
Date of the Event Organized	05.03.2020
Class	B.Sc VI Sem
Project location	Nipani Area
Name of the Convener	Prof. K.I.Pattan
Participants	59
No. of Participants	Total 13 Teachers 01 Students 11
Name of the Expert with Designation	Smt.K.I.Pattan, Assistant prof
Contact Number & Address of the Expert	9886434044
Objectives of the Event	1. To highlight the health hazards of beedi workers. 2. To study the economic status of women beedi workers.
Outcome of the Event	Unknowingly the workers suffer from various disorders we discussed their problems with the company.
Photo Gallery	
	
Bsc VI student Visit to Royal Beedi Pvt.Ltd.Nipani	Staff and students meeting with Beedi roller.

for
HOD
Department of Zoology
G. I. Bagewadi College, Nipani.

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

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

RANI CHANNAMMA  **UNIVERSITY, BELAGAVI**

Department of Mathematics

Syllabus
for
Master of Science in Mathematics
I to II Semester
(with effect from 2017 – 18)



Department of Mathematics

Choice based credit system (CBCS)

Course structure

Sl. No.	Paper & Title	Credit	No of Hrs/week Theory/ Practical	Duration of exam in Hrs Theory/ Practical	IA Marks Theory/ Practical	Marks at the Exams	Total Marks
I Semester							
1.1	Algebra -I	4	4	3 Hrs	20	80	100
1.2	Topology	4	4	3 Hrs	20	80	100
1.3	Real Analysis	4	4	3 Hrs	20	80	100
1.4	Linear Algebra	4	4	3 Hrs	20	80	100
1.5	Ordinary Differential Equations	4	4	3 Hrs	20	80	100
1.6	Discrete Mathematical Structures	4	4	3 Hrs	20	80	100
II Semester							
2.1	Algebra – II	4	4	3 Hrs	20	80	100
2.2	Complex Analysis	4	4	3 Hrs	20	80	100
2.3	Partial Differential Equations	4	4	3 Hrs	20	80	100
2.4	Functions of Several Variables	4	4	3 Hrs	20	80	100
2.5	Classical Mechanics	4	4	3 Hrs	20	80	100
2.6	Open Elective Course I. Set Theory (Arts & Commerce stream)	4	4	3 Hrs	20	80	100
	II. Integral Transforms (Science stream)						



Department of Mathematics

III Semester							
3.1	Measure Theory & Lebesgue Integration	4	4	3 Hrs	20	80	100
3.2	Differential Geometry	4	4	3 Hrs	20	80	100
3.3	Numerical Analysis	4	4	3 Hrs	20	80	100
3.4	Elective- I	4	4	3 Hrs	20	80	100
	I. Mathematical Finance						
	II. Fluid Mechanics						
	III. Commutative Algebra						
3.5	Elective- II	4	4	3 Hrs	20	80	100
	I. Algebraic Topology						
	II. Number Theory and Cryptology						
	III. Fourier Analysis						
3.6	Open Elective Course	4	4	3 Hrs	20	80	100
	I. Statistics (Arts & Commerce stream) II. Computational Methods (Science stream)						
IV Semester							
4.1	Functional Analysis	4	4	3 Hrs	20	80	100
4.2	Mathematical Methods	4	4	3 Hrs	20	80	100
4.3	Probability Theory	4	4	3 Hrs	20	80	100
4.4	Elective-I	4	4	3 Hrs	20	80	100
	I. Riemannian Geometry						
	II. Advance Graph Theory						
	III. Mathematical modeling						
4.5	Elective-II	4	4	3 Hrs	20	80	100
	I. Advanced Numerical Methods						
	II. Banach Algebra						
	III. Operations Research						
4.6	Project	4	The candidate shall submit a dissertation carrying 80 marks and appear for viva-voce carrying 20 marks				100
	Total		96				



Department of Mathematics

4.6 PROJECT

The candidate shall submit a dissertation carrying 80 marks and appear for viva-voce carrying 20 marks.



RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



**A PROJECT REPORT ON
"MATRICES"**

SUBMITTED BY

MISS. ARCHANA G KAMATE
Reg.No: MT181201
course code - D120

**IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)**
Academic Year 2019-20

Under Guidance of

DR(SMT). M. M. SHANKRIKOPP
M.Sc, PhD

PROF. MISS. KARUNA SAMAJE
M.Sc. B.Ed.

SUBMITTED TO



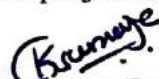
DEPARTMENT OF MATHEMATICS
KLE'S G I BAGEWADI ARTS, COMMERCE, SCIENCE UG
AND PG COLLEGE NIPANI-591237.

**KLE'S G I BAGEWADI ARTS, COMMERCE, SCIENCE UG
AND PG COLLEGE ,NIPANI-591237
(RE ACCRIGATED AT 'A' LEVEL BY NAAC)**



Certificate

This is to Certify that project carried out by **MISS.ARCHANA G KAMATE** Reg No: MT181201 bonafide student of G. I. Bagewadi College, PG center Nipani, inpartial fulfillment for the award of **Master of Science in Mathematics** of the Rani Channamma University, Belagavi during the year 2019-20. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.


Miss Karuna Samaje
Guide


Mr Sammed A Chougale
Coordinator


Dr. M. M. Shankrikopp
Head of Department
Head
Department of Mathematics
K.L.E's G. I. B. College, Nipani.


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

Examiners: 1)


2) 
24/9/2020

RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



**A PROJECT REPORT ON
"A STUDY ON INTERVAL ANALYSIS"**

SUBMITTED BY

MISS POOJA H. YADAV

Reg. No: MT181209

Course code - D120

**IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)**

Academic Year 2019-2020

Under Guidance of

**DR.(SMT). M. M. SHANKRIKOPP
M.Sc., PhD**

**PROF. MR. SAMMED A. CHOUGALE
M. Sc., B. Ed.**

SUBMITTED TO



DEPARTMENT OF MATHEMATICS

K.L.E. Society's

G I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,

NIPANI-591237.


K.L.E. Society's
G I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,
NIPANI-591237
[ACCRIGATED AT 'A' LEVEL BY NAAC with CGPA 3.35]



Certificate

This is to Certify that project carried out by MISS POOJA H. YADAV, Reg No: MT181209, bonafidestudent of G. I. Bagewadi College, PG center Nipani, in partial fulfillment for the award of **Master of Science in Mathematics** of the Rani Channamma University, Belagavi during the year 2019-2020. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.



Mr. Sammed A. Chougale
Guide & Coordinator


21/9/2020
Dr. M. M. Shankrikopp
Head of Department
Head
Department of Mathematics
K.L.E's G. I. B. College, Nipani


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

Examiners: 1)

2)



24/9/2020



RANI CHANNAMMA UNIVERSITY

BELAGAVI-590 014



**A PROJECT REPORT ON
"APPLICATIONS OF FOURIER SERIES AND FOURIER
TRANSFORMATIONS"**

**SUBMITTED BY
MISS. SABIAM. MULLA**

**Reg.No: MT181217
course code - D120**

**IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)**

Academic Year 2019-2020

Under Guidance of

DR. (SMT). M. M. SHANKRIKOPP

M.Sc., PhD

PROF. MR.JINENDRA N. MAGADUM

M. Sc., B.Ed.

SUBMITTED TO



DEPARTMENT OF MATHEMATICS

K.L.E. Society's

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

NIPANI-591237.

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]



Certificate

This is to Certify that project carried out by Miss. SABIYA .M. MULLA Reg No: MT181217 bonafide student of G. I. Bagewadi College, PG center Nipani, in partial fulfillment for the award of **Master of Science in Mathematics** of the Rani Channamma University, Belagavi during the year 2019-2020. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Mr. J. N. Magadam
Guide

Mr. S. A. Chougale
Coordinator

21/9/2020

Dr. M.M. Shankrikopp
Head of Department
Head

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

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

Examiners: 1)

24/9/2020

2)

RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



**A PROJECT REPORT ON
"LAPLACE TRANSFORM AND ITS APPLICATIONS"**

SUBMITTED BY

MISS. POOJA N. NIDAGUNDI

Reg.No: MT181210

course code - D120

**IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)**

Academic Year 2019-20

Under Guidance of

DR.(SMT). M. M. SHANKRIKOPP
M.Sc, PhD

PROF. SMT.KARUNA SAMAJE
M.sc B. ed

SUBMITTED TO



**DEPARTMENT OF MATHEMATICS
KLE'S G I BAGEWADI ARTS, COMMERCE, SCIENCE UG
AND PG COLLEGE NIPANI-591237.**

KLE'S G I BAGEWADI ARTS, COMMERCE, SCIENCE UG
AND PG COLLEGE
NIPANI-591237
(RE ACCREDITED AT 'A' LEVEL BY NAAC)



Certificate

This is to Certify that project carried out by **MISS. POOJA NIDAGUNDI**.
Reg No: MT181210, bonafide student of G. I. Bagewadi College, PG center
Nipani, in partial fulfillment for the award of **Master of Science in
Mathematics** of the Rani Channamma University, Belagavi during the year
2019-20. It is certified that all correction/suggestions indicated for internal
assessment have been incorporated in the report. The project report has been
approved as it satisfies the academic requirements in respect of project work
prescribed for the said degree.

Smt Karuna Samaje
Guide

Mr Sammed A Chougale
Coordinator

21/9/2020

Dr. M. M. Shankrikopp
Head of Department

Department of Mathematics
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Examiners: 1)

24/9/2020

2)

Dr. M. M. Hurali
Principal

PRINCIPAL
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RANI CHANNAMMA UNIVERSITY
BELAGAVI – 590 014



A PROJECT REPORT ON
“A STUDY ON GRAPH THEORY AND ITS APPLICATIONS”

SUBMITTED BY

MISS. SAKSHATA N. NIDAGUNDI
Reg. No: MT181218
course code – D120

IN PARTIAL FULFILMENT OF

MASTERS OF SCIENCE (M.Sc. Mathematics)
Academic Year 2019-20

Under Guidance of

DR.(SMT). M. M. SHANKRIKOPP
M.Sc, PhD

PROF. MR. SAMMED A. CHOUGALE
M.Sc, B.Ed

SUBMITTED TO



DEPARTMENT OF MATHEMATICS

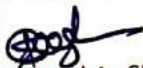
KLE'S G I BAGEWADI ARTS, COMMERCE, SCIENCE UG AND PG COLLEGE NIPANI-591 237.

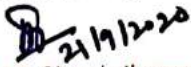
KLE'S G I BAGEWADI ARTS, COMMERCE, SCIENCE UG AND PG COLLEGE
NIPANI-591 237.
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Certificate

This is to Certify that project carried out by **MISS. SAKSHATA N. NIDAGUNDI**
Reg No. MT181218 bonafied student of G. I. Bagewadi College, PG center Nipani, in
partial fulfillment for the award of **Master of Science in Mathematics** of the Rani
Channamma University, Belagavi during the year 2019-20. It is certified that all
correction/ suggestions indicated for internal assessment have been incorporated in the
report. The project report has been approved as it satisfies the academic requirements in
respect of project work prescribed for the said degree.


Mr. Sammed A. Chougale
Guide & Coordinator


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Head
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Dr. M. M. Hurali
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Examiners: 1)  24/9/2020
2) 

RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



A PROJECT REPORT ON
“APPLICATION OF DIFFERENTIAL EQUATION”

SUBMITTED BY

MISS. MANISHA B. PATHADE

Reg. No: MT181208

course code - D120

IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)

Academic Year 2019-2020

Under Guidance of

DR.(SMT). M. M. SHANKRIKOPP
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PROF. MR. JINENDRA N.MAGADUM
M. Sc., B. Ed.

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DEPARTMENT OF MATHEMATICS

K.L.E. Society's

G I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,

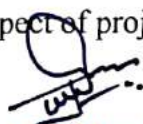
NIPANI-591237.

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]





Certificate



This is to Certify that project carried out by **MISS. MANISHA B. PATHADE** Reg. No: MT181208 bonafide student of G. I. Bagewadi College, PG center Nipani, in partial fulfillment for the award of **Master of Science in Mathematics** of the Rani Channamma University, Belagavi during the year 2019-2020. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.


Mr. J. N. Magadum
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Mr. S. A. Chougale
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 21/9/2020
Dr. M. M. Shankrikopp
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Examiners: 1)  24/9/2020
2) 

RANI CHANNAMMA UNIVERSITY
BELAGAVI – 590 014



A PROJECT REPORT ON
“A STUDY ON GRAPH THEORY AND ITS APPLICATIONS”

SUBMITTED BY

MISS. PRIYADARSHINI S. MADYAPGOL

Reg. No: MT181213

course code – D120

IN PARTIAL FULFILMENT OF

MASTERS OF SCIENCE (M.Sc. Mathematics)
Academic Year 2019-20

Under Guidance of

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M.Sc, B.Ed

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DEPARTMENT OF MATHEMATICS

KLE'S G I BAGEWADI ARTS, COMMERCE, SCIENCE UG AND PG COLLEGE NIPANI-591 237.

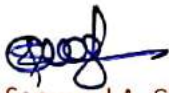
**KLE'S G I BAGEWADI ARTS, COMMERCE, SCIENCE UG AND PG COLLEGE
NIPANI-591 237.**

(ACCREDITED AT 'A' LEVEL BY NAAC with CGPA 3.35)

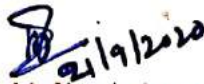


Certificate

This is to Certify that project carried out by **MISS. PRIYADARSHINI S. MADYAPGOL**. Reg No:MT181213 bonafied student of G. I. Bagewadi College, PG center Nipani, in partial fulfillment for the award of **Master of Science in Mathematics** of the Rani Channamma University, Belagavi during the year 2019-20. It is certified that all correction/ suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.



Mr. Sammed A. Chougale
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Dr. M. M. Shankrikopp
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Dr. M. M. Hurali
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Examiners: 1)


24/9/2020

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RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



A PROJECT REPORT ON
"LAPLACE TRANSFORM AND ITS APPLICATIONS"

SUBMITTED BY

MISS. POOJA B. PIRAJI

Reg.No: MT181211

course code - D120

IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)
Academic Year 2019-20

Under Guidance of

DR.(SMT). M. M. SHANKRIKOPP

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PROF. SMT.KARUNA SAMAJE

M.Sc B. ed

SUBMITTED TO



DEPARTMENT OF MATHEMATICS
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KLE'S G I BAGEWADI ARTS, COMMERCE, SCIENCE UG
AND PG COLLEGE
NIPANI-591237
(RE ACCREDITED AT 'A' LEVEL BY NAAC)



Certificate

This is to Certify that project carried out by **MISS. POOJA PIRAJI**. Reg No: MT181211, bonafide student of G. I. Bagewadi College, PG center Nipani, in partial fulfillment for the award of **Master of Science in Mathematics** of the Rani Channamma University, Belagavi during the year 2019-20. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Smt Karuna Samaje
Guide

Mr Sammed A Chougale
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**A PROJECT REPORT ON
"CRYPTOGRAPHY AND NETWORK SECURITY"**

SUBMITTED BY

MISS JYOTI A. CHAVAN

Reg. No: MT181204

course code - D120

**IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)**

Academic Year 2019-2020

Under Guidance of

**DR.(SMT). M. M. SHANKRIKOPP
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**PROF. MISS.NIKITA S. JADHAV
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SUBMITTED TO



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K.L.E. Society's
G I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,
NIPANI-591237

[ACCRIGATED AT 'A' LEVEL BY NAAC with CGPA 3.35]



Certificate

This is to Certify that project carried out by **MISS JYOTI A. CHAVAN**
Reg No: MT181204, bonafide student of G. I. Bagewadi College, PG center
Nipani, in partial fulfillment for the award of **Master of Science in**
Mathematics of the Rani Channamma University, Belagavi during the year
2019-2020. It is certified that all correction/suggestions indicated for internal
assessment have been incorporated in the report. The project report has been
approved as it satisfies the academic requirements in respect of project work
prescribed for the said degree.

N. S. Jadhav

Miss. Nikita S. Jadhav
Guide

S. A. Chougale

Mr. Sammed A. Chougale
Coordinator

M. M. Shankrikopp
21/9/2020

Dr. M.M. Shankrikopp
Head of Department
Head

Department of Mathematics
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M. M. Hurdia

Dr. M. M. Hurdia
K.L.E. Society's
G. I. Bagewadi College, Nipani.

Examiners: 1)

[Signature]

21/9/2020

2)

[Signature]

RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



**A PROJECT REPORT ON
"MATRICES"**

SUBMITTED BY

Miss. PRIYA V PATIL
Reg.No: MT181212
course code - D120

**IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)**
Academic Year 2019-20

Under Guidance of

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M.Sc, PhD

PROF. MISS. KARUNA SAMAJE
M.Sc. B. Ed.

SUBMITTED TO



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AND PG COLLEGE NIPANI-591237.

KLE'S G I BAGEWADI ARTS, COMMERCE, SCIENCE UG
AND PG COLLEGE, NIPANI-591237
(RE ACCREDITED AT 'A' LEVEL BY NAAC)



Certificate

This is to Certify that project carried out by MISS.PRIYA V PATIL Reg No: MT181212 bonafide student of G. I. Bagewadi College, PG center Nipani, inpartial fulfillment for the award of **Master of Science in Mathematics** of the Rani Channamma University, Belagavi during the year 2019-20. It is certified that all correction/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Miss Karuna Samaje
Guide

Mr Sammed A Chougale
Coordinator

Dr. M. M. Hurali
PRINCIPAL
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G. I. Bagewadi College, Nipani.

24/9/2020

Dr. M. M. Shankrikopp
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Examiners: 1)

24/9/2020

2)

RANI CHANNAMMA UNIVERSITY, BELGAVI
MA English under CBCS Programme
SYLLABUS
 (With effect from the academic year 2018-19)

III SEM		IV SEM	
3.1	New Literatures	4.1	European Classics
3.2	Dalit Literature	4.2	English Language Teaching
3.3	Ecocriticism and Indian Writing in English	4.3	Cultural Studies
3.4 a	Post Colonial Literature and Theory- 1	4.4a	Post Colonial Literature and Theory- 3
3.4b	Indian Literatures in Translation- 1	4.4b	Indian Literatures in Translation- 3
3.5a	Post Colonial Literature and Theory- 2	4.5a	Post Colonial Literature and Theory- 4
5b	Indian Literatures in Translation- 2	4.5b	Indian Literatures in Translation- 4
3.6	OEC: Language through Literature	4.6	Project Work

Note:

Students can choose **Postcolonial Literature and Theory** (3.4a, 3.5a and 4.4a, 4.5a)

Or

Indian Literatures in Translation (3.4b, 3.5b and 4.4b, 4.5b) for their specialization.



RANI CHANNAMMA UNIVERSITY, BELAGAVI-590 014



**A DISSERTATION ON
"THE THEME OF PROGRESSIVE EDUCATION IN CHARLES DICKINS'
NOVEL GREAT EXPECTATIONS"**

Course Code - D060

**SUBMITTED BY
MISS. ANITA SADASHIV JANAWADE
Reg. No. EN181201**

**IN PARTIAL FULFILMENT OF
MASTERS OF ARTS (M.A. ENGLISH)
Academic Year 2019-2020**

UNDER THE GUIDANCE OF

**DR. B. Y. NAIK
M. A. PH.D**

SUBMITTED TO



DEPARTMENT OF ENGLISH

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G I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

NIPANI- 591237

RANI CHANNAMMA UNIVERSITY, BELAGAVI-590 014



A DISSERTATION ON
"DIASPORIC PERSPECTIVE IN KIRAN DESAI'S
THE INHERITANCE OF LOSS"

Course Code - D060

Submitted By

MISS. ASHWINI JANAWADE

Reg. No. EN181202

IN PARTIAL FULFILMENT OF
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Academic Year 2019-2020

Under the Guidance of

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M. A. PH.D

SUBMITTED TO



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Dr. B. Y. Naik

Coordinator of PG studies in English

K. L. E. Society's

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

CERTIFICATE

This is to certify that the dissertation Entitled **Diasporic Perspective in Kiran Desai's The Inheritance of Loss** is a record of bona fide research carried out by **Miss Ashwini Janawade** under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K.L.E. Society's G. I. Bagewadi Arts, Science and Commerce College Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English**.

Place : Nipani

Date : 26/09/2020


Signature of the Supervisor



HOD

Department Of English

G.I. Bagewadi College, Nipani.





PRINCIPAL

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

RANI CHANNAMMA UNIVERSITY, BELAGAVI-590 014



A DISSERTATION ON
"AN ANALYTICAL STUDY OF THE CONFLICT AND PEACE IN
KHUSHWANT SINGH'S NOVEL TRAIN TO PAKISTAN"

Course Code - D060

Submitted By

MISS. BHARATI DIVATE

Reg. No. EN181203

IN PARTIAL FULFILMENT OF
MASTERS OF ARTS (M.A. ENGLISH)

Academic Year 2019-2020

Under the Guidance of
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M. A. B.Ed.

SUBMITTED TO



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K.L.E. Society's

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Mr. Vinayak Sutar

Department of English, K. L. E. Society's

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

CERTIFICATE

This is to certify that the dissertation entitled **An Analytical Study of The Conflict And Peace In Khushwant Singh's Novel Train To Pakistan** is a record of bona fide research carried out by **Miss Bharati Divate** under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K.L.E. Society's G. I. Bagewadi Arts, Science and Commerce College, Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English**.

Place: Nipani

Date : 26 / 09 / 2020


Signature of the supervisor



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Department Of English

G.I. Bagewadi College, Nipani





PRINCIPAL

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G. I. Bagewadi College, Nipani.

RANI CHANNAMMA UNIVERSITY, BELAGAVI-590 014



**A DISSERTATION ON
"DISAPPEARANCE OF LOCAL KNOWLEDGE"**

Course code - D060

Submitted By

MR. GURUNATH PATROT

Reg. No. EN181204

**IN PARTIAL FULFILMENT OF
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Academic Year 2019-2020

Under the Guidance of

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Mr. Salman Mansori

Department of English, K. L. E. Society's

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

CERTIFICATE

This is to certify that the dissertation entitled *Gandhism in Raja Rao's Kantapura* is a record of *bona fide* research carried out by Miss. Juheena Bagwan under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K. L. E. Society's G. I. Bagewadi Arts, Science and Commerce College Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English**

Place / *Nipani*

Date / *20/9/2020*

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**A DISSERTATION ON
"GANDHISM IN RAJA RAO'S KANTAPURA"**

Course Code - D060

Submitted By

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**IN PARTIAL FULFILMENT OF
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Academic Year 2019-2020

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DEPARTMENT OF ENGLISH

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K.L.E. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,

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Mr. Satish H. Kamble

Department of English, K. L. E. Society's

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

Certificate

This is to certify that the dissertation entitled "William Wordsworth as Nature Poet" is a record of *bona fide* research carried out by Mr. Pradeep K. Talawar under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K.L.E. Society's G. I. Bagewadi Arts, Science and Commerce College Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English**.


Signature of the Supervisor

Place : Nipani

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HOD

Department Of English

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**A DISSERTATION ON
"WILLIAM WORDSWORTH AS NATURE POET"**

Course code - D060

Submitted By

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**IN PARTIAL FULFILMENT OF
MASTERS OF ARTS (M.A. ENGLISH)**

Academic Year 2019-2020

Under the Guidance of

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M.A., NET, K-SET

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**K.L.E. Society's
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NIPANI-591237**

Mr. Raseed Kutubuddin, Mulla

Department of English, K. L. E. Society's

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

CERTIFICATE

This is to certify that the dissertation entitled "**Disappearance of Local Knowledge**" is a record of *bona fide* research carried out by **Mr. Gurunath Patrot** under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English at K.L.E. Society's G. I. Bagewadi Arts, Science and Commerce College Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English**.

R. Mulla

Signature of the Supervisor

Place Nipani

Date 26/09/2020

R. Mulla

HOD

Department Of English

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R. Mulla

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RANI CHANNAMMA UNIVERSITY, BELAGAVI-590 014



A DISSERTATION ON
"OORU KERI AS A DALIT AUTOBIOGRAPHY"

Course Code - D060

Submitted By

MR. PRASAD TALAWAR

Reg. No. EN181207

IN PARTIAL FULFILMENT OF
MASTERS OF ARTS (M.A. ENGLISH)

Academic Year 2019-2020

Under the Guidance of

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M. A. B.Ed

SUBMITTED TO



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K.L.E. Society's

G I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,

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Mr. Raseed Kutubuddin Mulla

Department of English, K. L. E. Society's

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CERTIFICATE

This is to certify that the dissertation entitled **Ooru Keri As a Dalit Autobiography** is a record of bona fide research carried out by **Mr. Prasad Talawar** under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K. L. E. Society's G. I. Bagewadi Arts, Science and Commerce College, Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English.**

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Signature of the supervisor

Place : Nipani

Date : 26/09/2020

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Prasad
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A DISSERTATION ON

"Picture of the World Wars in the poetry of W.H.Auden"

Course code - D060

Submitted By

MIR. SHARAD B. BHANDARI

Reg. No.: EN181208

IN PARTIAL FULFILMENT OF
MASTERS OF ARTS (M.A. ENGLISH)

Academic Year 2019-2020

Under the Guidance of

Mrs. SUVEDA S. KAKADE

M.A.

SUBMITTED TO



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K.L.E. Society's

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

CERTIFICATE

This is to certify that the dissertation entitled "Picture of the World Wars in the Poetry of W. H. Auden" is a record of *bona fide* research carried out by Mr. Sharad B. Bhandari under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K.L.E. Society's G. I. Bagewadi Arts, Science and Commerce College Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English**.

Place: Nipani

Date : 26-09-2020



Signature of the supervisor



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Department Of English

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PRINCIPAL

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G. I. Bagewadi College, Nipani.

RANI CHANNAMMA UNIVERSITY, BELAGAVI-590 014



A DISSERTATION ON

**"AN ANALYTICAL STUDY OF R. K. NARAYAN'S NOVEL SWAMY
AND FRIENDS A CLASSIC OF SCHOOL BOY'S FICTION OF
HUMAN RELATIONSHIPS"**

Course code - D060

Submitted By

MISS. SHEETAL GHATAGE

Reg. No. EN181209

**IN PARTIAL FULFILMENT OF
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Academic Year 2019-2020

Under the Guidance of

MR. SATISH H. KAMBLE

M.A., NET, K-SET

SUBMITTED TO



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NIPANI-591237

Mr. Satish H. Kamble

Department of English, K. L. E. Society's

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

CERTIFICATE

This is to certify that the dissertation entitled An Analytical Study of R. K. Narayan's Novel Swamy and Friends A Classic of School Boy's Fiction of Human Relationships is a record of bona fide research carried out by Miss Sheetal Ghatage under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K.L.E. Society's G. I. Bagewadi Arts, Science and Commerce College Nipani and submitted to the College in partial fulfillment of the requirements for the award of Master of Arts in English.



Signature of the supervisor

Place: Nipani

Date: 26/09/2020



HOD

Department Of English

G. I. Bagewadi College, Nipani.



PRINCIPAL

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G. I. Bagewadi College, Nipani,

RANI CHANNAMMA UNIVERSITY, BELAGAVI-590 014



A DISSERTATION ON

“The Study of Worldly and Spiritual Nature of Marital Bliss In
R. K. Narayan’s Novel The English Teacher”

Course Code - D060

Submitted By

Miss. SHIFA PANGARE

Reg. No. EN181210

IN PARTIAL FULFILMENT OF
MASTERS OF ARTS (M.A. ENGLISH)

Academic Year 2019-2020

Under the Guidance of

Mr. Vinayak Sutar
M.A. B.ED.

SUBMITTED TO



DEPARTMENT OF ENGLISH

K.L.E. Society's
G I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
NIPANI-591237

Mr. Vinayak Sutar

Department of English, K. L. E. Society's

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Certificate

This is to certify that the dissertation entitled "The Study of Worldly And Spiritual Nature of Marital Bliss In R. K. Narayan's Novel The English Teacher" is a record of *bona fide* research carried out by Miss. Shifa Pangare under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K.L.E. Society's G. I. Bagewadi Arts, Science and Commerce College Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English**.

Place : Nipani

Date : 26/09/2020


Signature of the Supervisor



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Department Of English

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K.L.E. Society's

G. I. Bagewadi College, Nipani.

RANI CHANNAMMA UNIVERSITY, BELAGAVI-590 014



A DISSERTATION ON
"RELATION BETWEEN MEN AND WOMEN"

Course code - D060

Submitted By

MISS. SUREKHA PATIL
Reg. No. EN181211

IN PARTIAL FULFILMENT OF
MASTERS OF ARTS (M.A. ENGLISH)
Academic Year 2019-2020

Under the Guidance of
MRS. SUVEDA KAKADE
M.A.

SUBMITTED TO



DEPARTMENT OF ENGLISH



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Mrs. Suveda Kakade

Department of English, K. L. E. Society's

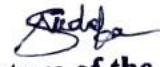
G.I.Bagewadi Arts, Science and Commerce College Nipani

Certificate

This is to certify that the dissertation Entitled **Relation Between Men And Women** is a record of bona fide research carried out by **Miss Surekha Patil** under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K.L.E. Society's G. I. Bagewadi Arts, Science and Commerce College Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English**.

Place : Nipani

Date : 26/09/2020


Signature of the Supervisor



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PRINCIPAL

K.L.E. Society's

G. I. Bagewadi College, Nipani.

RANI CHANNAMMA UNIVERSITY, BELAGAVI-590 014



A DISSERTATION ON
"CHANGE IN THE CENTRAL CHARACTER SRIRAM IN
THE NOVEL WAITING FOR THE MAHATMA"

Course code - D060

Submitted By

MR. VINAYAK PATIL

Reg. No. EN181212

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MASTERS OF ARTS (M.A. ENGLISH)

Academic Year 2019-2020

Under the Guidance of
Mr. SALMAN MANER
M. A.

SUBMITTED TO



DEPARTMENT OF ENGLISH

K.L.F. Society's

GI BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,

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Mr. Salman Maner

Department of English, K. L. E. Society's
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CERTIFICATE

This is to certify that the dissertation entitled **Change In The Central Character Sriram In The Novel Waiting For The Mahatma** is a record of bona fide research carried out by **Mr. Vinayak Patil** under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K.L.E. Society's G. I. Bagewadi Arts, Science and Commerce College Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English**.

Place : *Nipani*
Date : *26/09/2020*


Signature of the supervisor


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Department Of English
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K.L.E. Society's
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Dr. B. Y. Naik
Coordinator of PG studies in English
K. L. E. Society's
G. I. Bagewadi Arts, Science and Commerce College Nipani

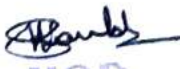
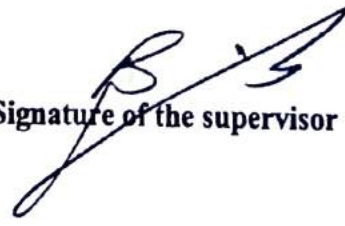
CERTIFICATE

This is to certify that the dissertation entitled **The Theme of Progressive Education In Charles Dickens' Novel Great Expectations** is a record of bona fide research carried out by **Miss Anita Janawade** under my guidance and supervision during the period of January 2020 to August 2020 at the Department of English, at K.L.E. Society's G. I. Bagewadi Arts, Science and Commerce College Nipani and submitted to the College in partial fulfillment of the requirements for the award of **Master of Arts in English**.

Place : Nipani

Date : 26/09/2020

Signature of the supervisor



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Department Of English
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PRINCIPAL
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G. I. Bagewadi College, Nipani.

RANI CHANNAMMA UNIVERSITY, BELAGAVI.

Department of Post Graduate Studies and Research in Commerce



Syllabus of Master of Commerce

(With effect from Academic Year 2017-18)

IV Semester



M.Com Course Structure

Sem	Paper Code	Course	IA Marks	Sem End Marks	Total	Hrs/Week	Credits	
III	3.1	Business Research Methods	20	80	100	04	04	
	3.2	International Financial Management	20	80	100	04	04	
	Group- A : Accounting and Finance							
	3.3 A	Financial Markets and Institutions	20	80	100	04	04	
	3.4 A	Corporate Accounting	20	80	100	04	04	
	3.5 A	Accounting for Specialised Institutions	20	80	100	04	04	
	Group- B: Cost Accounting							
	3.3 B	Production and Operation Management	20	80	100	04	04	
	3.4 B	Cost Management	20	80	100	04	04	
	3.5 B	Cost Accounting Standards	20	80	100	04	04	
	Group - C: Banking							
	3.3 C	Bank Marketing	20	80	100	04	04	
	3.4 C	Banking in India	20	80	100	04	04	
	3.5 C	Management Accounting for Bankers	20	80	100	04	04	
	Open Elective Course							
	3.6	To be chosen from the other Department	20	80	100	04	04	
		Open Elective Course meant for other Departments - Personal Financial Planning	20	80	100	04	04	
	Total Marks/Credits			120	480	600	24	24
	IV	4.1	E-Commerce	20	80	100	04	04
		4.2	International Business	20	80	100	04	04
		4.3	Project Report	50	50	100	04	04
Group A: Accounting and Finance								
4.4 A		Security Analysis and Portfolio Management	20	80	100	04	04	
4.5 A		Innovations in Accounting	20	80	100	04	04	
4.6 A		Mutual Funds	20	80	100	04	04	
Group- B: Cost Accounting								
4.4 B		Techniques of Costing	20	80	100	04	04	
4.5 B		Strategic Cost Management	20	80	100	04	04	
4.6 B		Recent Developments in Cost Accounting	20	80	100	04	04	
Group - C: Banking								
4.4 C		Foreign Exchange and Risk Management	20	80	100	04	04	
4.5 C		Financial Management in Commercial Banks	20	80	100	04	04	
4.6 C		Fund Management in Commercial Banks	20	80	100	04	04	
Total Marks/Credits			150	450	600	24	24	



**“A STUDY ON CRITICAL ANALYSIS OF NON-
PERFORMING ASSETS”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course code - D03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MR.ABHISHEK A. BHENDAWADE

Register Number: MC181801

Project Guide

PROF.(SMT.). P. R. KAMATE



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NIPANI


DEPARTMENT OF POST GRADUATE STUDIES IN
COMMERCE

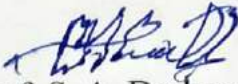
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CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CRITICAL ANALYSIS OF NON - PERFORMING ASSETS" Is submitted to **Rani Channamma University, Belagavi** by **Mr. Abhishek. A. Bhendawade** in partial fulfillment of the requirement for the award of degree of **Master of Commerce, during the academic year 2019-2020.**


Prof(smt.). P. R. Kamate
Guide


Prof. S. A. Deshpande
Co-ordinator
P. G. [M.Com.]
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Dr. M.M. Hurali
Principal
PRINCIPAL
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Commerce College, NIPANI.



A PROJECT REPORT ON
“A STUDY ON CREDIT RISK ASSESSMENT AT
SHRI BEERESHWAR CO-OP CREDIT SOCIETY
LTD., EXAMBA(MULTI-STATE)”



PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI

Course Code - D03

IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020

Submitted By:

MISS.AISHWARYA.R.CHANDURE

Register Number:MC181802

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Prof.Smt.S.P.Sansuddi



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NIPANI

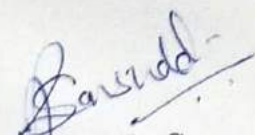
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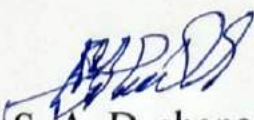
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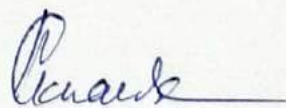


CERTIFICATE

This is to certify that the project report entitled "**A STUDY ON CREDIT RISK ASSESSMENT AT SRI BEERESHWAR CO-OP CREDIT SOCIETY LTD., EXAMBA(MULTI-STATE)**" is submitted to Rani Channamma University, Belagavi by **Miss.Aishwarya.R.Chandure**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2019-2020.


Prof. Smt. S. P. Sansuddi
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Dr. M.M.Hurali
Principal
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Commerce College, NIPANI.



A PROJECT REPORT ON
"BUDGETARY CONTROL IN MANAGING COST OF HIRANYAKESHI
SAHAKARI SAKKARE KARKHANE NIYAMIT, SANKESHWAR."



PROJECT REPORT SUBMITTED TO RANI CHANNAMMA
UNIVERSITY, BELAGAVI

Course Code-103

IN PARTIAL FULFILMENT OF THE AWARD OF MASTER OF
COMMERCE

Academic Year 2019-20

Submitted By:

MR. AKASH NERLI

Register Number: MC181803

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Prof. Shruti Mirje

External Guide:

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COLLEGE**

**Department of Post-Graduation Studies in Commerce
(AFFILATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)**



CERTIFICATE

This is to certify that the project Report Entitled **“BUDGETARY CONTROL IN MANAGING COST OF HIRANYAKESHI SAHAKARI SAKKARE KARKHANE NIYAMIT, SANKESHWAR.”** Is submitted by **Mr. AKASH NERLI (REGISTRATION NO: MC181803)** in partial fulfillment of the requirements for the award of degree of Master Of Commerce in **KLE'S G.I.BAGEWADI COLLEGE ARTS,SCIENCE AND COMMERCE COLLEGE** (Department of post-graduation studies in commerce) **NIPPANI.**

I further certified that the work is original work and student has made his best effort to bring the work in this format.

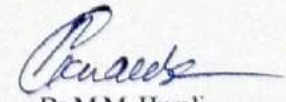

Miss. Shruti Mirje

Project Guide




Prof. S. A. Deshpande

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P. G. [M.Com.]
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Dr.M.M. Hurali

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**A STUDY ON SETTING UP OF ADITYA MILK
STORE AND CUSTOMER SATISFACTION**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course code-003

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

**MISS. AKSHATA A HIREMATH
Register Number:MC181804**

Project Guide:

Prof.PriyankaKamate

KLE SOCIETY S

**G.I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG Studies in Commerce,
NIPANI-591237**



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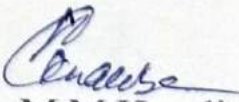


CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON SETTING UP OF ADITYA MILK STORE AND CUSTOMER SATISFACTION”** is submitted to Rani Channamma University, Belagavi by **Ms. Akshata A Hiremath**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2019-2020.


Prof. priyankakamate
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Dr. M.M.Hurali
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G.I. Bagewadi Arts, Science &
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G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of PG in Commerce, NIPANI-591239

KLE SOCIETY'S

G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE

COLLEGE

Department of Post graduate studies in Commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "*AN ANALYSIS OF SATISFACTION OF SHAREHOLDERS AND PRACTICE OF VARIOUS LOANS*" is submitted by CHAITALI SURESH SUTAR in partial fulfillment of the requirements for the award of degree of Master Of Commerce in the Department of Commerce, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani affiliated to Rani Channamma university, Belagavi, during the academic year 2019-2020.

Prof.S.A. Deshpande

Guide

Prof. S.A. Deshpande

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.

DR. M. M. HURALI

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



A PROJECT REPORT ON

“A STUDY ON CASH MANAGEMENT AT SHREE HIRANYAKASHI
SAKKARE KARKHANE NIYAMIT SANKESHWAR”



SUBMITTED TO

RANI CHANNAMMA UNIVERSITY, BELAGAVI

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF

MASTERS OF COMMERCE

Academic year – 2019-2020

course code-103

SUBMITTED BY

Miss. DEEPA MAHADEV KADADEVARAMATH

Registration No: MC181806

INTERNAL GUIDE

MISS. SHRUTI .MIRJE



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

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G.I.BAGEWADI ARTS,SCIENCE AND COMMERCE NIPANI

Department of post graduate studies in commerce.

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project report entitled "**A STUDY ON CASH MANAGEMENT AT SHREE HIRANYAKESHI SAKKARE KARKHANE NIYAMIT SANKESHWAR**" is submitted by Miss. Deepa Mahadev.Kadadevaramath(REGISTRATION NO: MC181806) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE'S G.I.BAGEWADI COLLEGE ARTS,SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), NIPPANI.

Miss. Shruti. Mirje

Project Guide

Prof. S.A. Deshpande

Co-Ordinator

P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.

Dr. M. M. Hurali

Principal
PRINCIPAL

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



**“ STUDY ON COMPARISON OF DIFFERENT
TYPES OF MUTUAL FUNDS”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course Code - D03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MR.GOPAL S SINGADE

Register Number: MC181807

Project Guide

Prof, (smt) **S.A.DESHPANDE**



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G.I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG Studies in Commerce,
NIPANI-591237

KLE Society s
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,
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DEPARTMENT OF POST GRADUATE STUDIES IN
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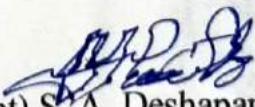
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CERTIFICATE

This is to certify that the project report entitled“ STUDY ON
COMPARISON OF DIFFERENT TYPES OF
MUTUAL FUNDS”Is submitted to Rani
ChannammaUniversity, Belagavi by Mr.GOPAL S
SINGADEin partial fulfillment of the requirement for the
award of degree of Master of Commerce, during the
academic year 2019-2020.


Prof. (smt) S.A. Deshapande


Prof (smt) S. A. Deshapande
Guide Co-ordinatorPrincipal
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


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



**“A STUDY ON EMPLOYEE JOB
SATISFACTION AT SHIVASHAKTI
SUGARS LTD. SOUNDATTI”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course Code - D03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MR.PAVANKUMAR PATIL

Register Number: MC181808

Project Guide

Prof, (smt) ,S. A. DESHPANDE



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Department of PG Studies in Commerce,
NIPANI-591237**

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(Affiliated to Rani Channamma University, Belagavi)

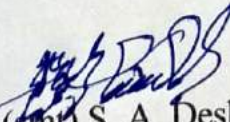


CERTIFICATE


This is to certify that the project report entitled **“A STUDY ON EMPLOYEE JOB SATISFACTION AT SHIVASHAKTI SUGARS LTD. SOUNDATTI”** is submitted to Rani Channamma University, Belagavi by **Mr.PAVANKUKUMARPATIL** in partial fulfillment of the requirement for the award of degree of Master of Commerce, during the academic year 2019-2020.


Prof. (smt) S.A. Deshpande

Guide


Prof (smt) S. A. Deshpande

Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


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



**“A STUDY ON CONSUMER BEHAVIOUR
TOWARDS ITC CLASSMATE NOTEBOOKS”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHANNAMMA UNIVERSITY, BELAGAVI
IN PARTIL FULFILLMENT OF THE
AWARD OF MASTER OF COMMERCE**

Academic Year 2019-20

Course Code- D03

Submitted by:

Mr. Pravin M Kambale

Register Number: MC181809

Project Guider:

Prof.(smt.) P.R. Kamate

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Department of PG Studies in Commerce,

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COLLEGE,
NIPPANI
DEPARTMENT OF POST GRADUATE STUDIES IN
COMMERCE

(Affiliated to Rani Channamma University, Belagavi)



CERTIFICATE

This is certify that the project report entitled "A STUDYON CONSUMER BEHAVIOUR TOWARD ITC CLASSMATE NOTEBOOKS" is submitted to Rani Channamma University, Belagavi by **Mr. Pravin M Kambale** in partial fulfillment of the requirement forthe award of degree of **Master of Commerce**, during the academic year 2019-2020.


Prof.(smt.) P.R. Kamate

Guide




Prof.(smt.) S.A. Deshpande

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


Dr.M.M. Hurali

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

A PROJECT REPORT ON
“A STUDY ON CONSUMERBUYING BEHAVIOR AT
ROYAL AUTOMOBILES IN SADALAGA CITY”



SUBMITTED TO
RANI CHANNAMMA UNIVERSITY, BELAGAVI
Course code - D03
IN PARTIAL FULFILLMENT OF THE AWARD OF
DEGREE OF MASTERS OF COMMERCE

Academic year – 2019-2020

SUBMITTED BY

Miss. Priyanka M Bommanale

Registration No: MC181810

UNDER THE GUIDANCE OF

MISS SHRUTI MIRJE



K.L.E. SOCIETY'S
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE, NIPANI.

**KLE SOCIETY'S
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE**

**Department of Post Graduation Studies in Commerce
(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)**



CERTIFICATE

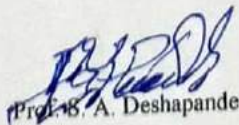
This is to certify that the project Report Entitled "**A STUDY ON CONSUMER BUYING BEHAVIOUR AT ROYAL AUTOMOBILES IN SADALAGA CITY**" is submitted by **Miss. Priyanaka M Bommanale**(REGISTRATION NO: MC181810) in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE'S G.I.BAGEWADI COLLEGE ARTS,SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce) NIPPANI.

I further certified that the work is original work and student has made his best effort to bring the work in this format

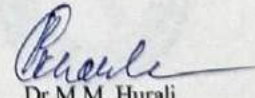

Miss. Shiruti. Mirje

Project Guide




Prof. B. A. Deshapande

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


Dr.M.M. Hurali

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

**“A STUDY ON IMPACT OF GST ON
RETAILERS-ON NIPANI CITY ”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course code - D03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MR.RAGHUNATH N. PATIL

Register Number: MC181811

Project Guide

PROF.(SMT.) P.R.KAMATE



**KLE SOCIETY' S
G.I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG Studies in Commerce,
NIPANI-591237**

KLE Society's

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

NIPANI


DEPARTMENT OF POST GRADUATE STUDIES IN COMMERCE

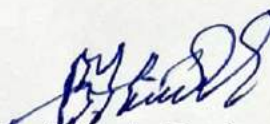
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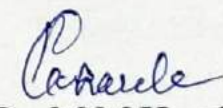


CERTIFICATE

This is to certify that the project report entitled "**A STUDY ON IMPACT OF GST ON RETAILERS-ON NIPANI CITY**" is submitted to **Rani Channamma University, Belagavi** by **Mr. Raghunath N. Patil** in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2019-2020.


Prof. P.R. Kamate
Guide


Prof. S. A. Deshpande
Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


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



**“EFFECT OF ADVERTISEMENT MESSAGE
TOWARDS CONSUMER”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course Code - D03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MR. RAHUL B. VANJIRE

Register Number: MC181812

Project Guide

PROF.(SMT.) S.P. SANSUDDI.



**KLE SOCIETY' S
G.I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG Studies in Commerce,
NIPANI-591237**

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

DEPARTMENT OF POST GRADUATE STUDIES IN COMMERCE

(Affiliated to Rani Channamma University, Belagavi)



CERTIFICATE

This is to certify that the project report entitled "**EFFECT OF ADVERTISEMENT MESSAGE TOWARDS CONSUMER**" Is submitted to **Rani Channamma University, Belagavi** by **Mr. Rahul B. Vanjire** in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year **2019-2020**.


Prof. S.P. Sansuddi

Guide


Prof. S. A. Deshapande

Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani


Dr. M.M. Hurali

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



**“CUSTOMER’S SATISFACTION
TOWARDS
E-BANKING”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

course code - 003

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MR.RAMESH K.GIDD

Register Number: MC181813

Project Guide

Prof, (miss) PALLAVI M.ANKALI



**KLE SOCIETY S
G.I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG Studies in Commerce,
NIPANI-591237**

DECLARATION

KLE Society s

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

NIPANI


**DEPARTMENT OF POST GRADUATE STUDIES IN
COMMERCE**

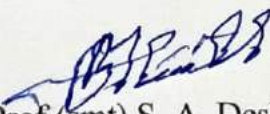
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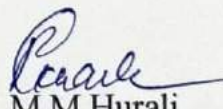


CERTIFICATE

This is to certify that the project report entitled "CUSTOMER'S SATISFACTION TOWARDS E-BANKING" Is submitted to Rani Channamma University, Belagavi by Mr.Ramesh K.Gidd in partia l fulfillment of the requirement for the award of degree of Master of Commerce, during the academic year 2019-2020.


Prof. (miss) P.M. Ankali
Guide


Prof (smt) S. A. Deshapande
Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


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



**“THE SCOPE OF THE STUDY LOANS AND
ADVANCES SCHEME OF SHRI SIDDESWAR CO-OP
CREDIT SOCIETY LTD BORGAON ”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course Code - D03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MR.ROHIT V. HAVALE

Register Number: MC18181

Project Guide

PROF.(MISS.) SHRUTI MIRJE

KLE SOCIETY' S

G.I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of PG Studies in Commerce,

NIPANI-591237



KLE Society's
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,
NIPANI

DEPARTMENT OF POST GRADUATE STUDIES IN
COMMERCE

(Affiliated to Rani Channamma University, Belagavi)



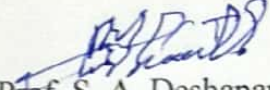
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This is to certify that the project report entitled "THE SCOPE OF THE STUDY LOANS AND ADVANCES SCHEME OF SHRI SIDDESWAR CO-OP CREDIT SOCIETY LTD BORGAN" is submitted to Rani Channamma University, Belagavi by Mr. Rohit V. Havale in partial fulfillment of the requirement for the award of degree of Master of Commerce, during the academic year 2019-2020.


Prof. (Miss.) Shruti Mirje

Guide




Prof. S. A. Deshpande

Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


Dr. M.M. Hurali

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

**“A STUDY ON FINANCIAL PERFORMANCE
ANALYSIS AT CBKSSKN”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHANNAMMA UNIVERSITY, BELAGAVI
IN PARTIL FULFILLMENT OF THE
AWARD OF MASTER OF COMMERCE**

Academic Year 2019-20

Course Code - D03

Submitted by:

Mr. Rupesh Navale

Register Number: MC181815

Project Guider:

Prof.(smt.) S.A. Deshpande

KLE SOCIETY'S

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

Department of PG Studies in Commerce,

NIPPANI-591237




KLE Society's
G.I BAGEWADI ARTS,SCIENCE AND COMMERCE
COLLEGE,
NIPPANI
DEPARTMENT OF POST GRADUATE STUDIES IN
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(Affiliated to Rani Channamma University,Belagavi)

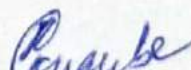


CERTIFICATE

This is certify that the project report entitled “**A STUDY ON FINANCIAL PERFORMANCE ANALYSIS AT CBKSSKN**” is submitted to Rani Channamma University, Belagavi by **Mr.Rupesh Navale** in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2019-2020.


Prof.(smt.) S.A.Deshapande
Giude


Prof.(smt.) S.A.Deshapande
Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


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



“FUND UTILISATION”



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course Code - P03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MR.RUSHIKESH A. CHOUGALE

Register Number: MC181816

Project Guide

Prof.(SMT.) S. A. DESHPANDE



**KLE SOCIETY S
G.I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG Studies in Commerce,
NIPANI-591237**

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


DEPARTMENT OF POST GRADUATE STUDIES IN
COMMERCE

(Affiliated to Rani Channamma University, Belagavi)

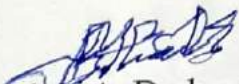


CERTIFICATE

This is to certify that the project report entitled "**FUND UTILISATION**" is submitted to **Rani Channamma University, Belagavi** by **Mr. Rushikesh A. Chougale** in partial fulfillment of the requirement for the award of degree of **Master of Commerce, during the academic year 2019-2020.**


Prof. S. A. Deshapande

Guide


Prof. S. A. Deshapande

Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


Dr. M.M. Hurali

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



**“A STUDY ON CONSUMER BUYING
BEHAVIOR AT PATIL MOTORS, IN
ANKALI CITY”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course code - D03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MR.SAGAR M. MALI

Register Number: MC181817

Project Guide

Prof, (miss) SHRUTI N. MIRJE



**KLE SOCIETY S
G.I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG Studies in Commerce,
NIPANI-591237**


KLE Society s
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,
NIPANI
DEPARTMENT OF POST GRADUATE STUDIES IN
COMMERCE


(Affiliated to Rani Channamma University, Belagavi)

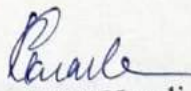


CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON CONSUMER BUYING BEHAVIOR AT PATIL MOTORS, IN ANKALI CITY”** is submitted to Rani Channamma University, Belagavi by **Mr.SAGAR M. MALI** in partial fulfillment of the requirement for the award of degree of Master of Commerce, during the academic year 2019-2020.


Prof. (miss) S.N.MIRJE
Guide


Prof (smt) S. A. Deshapande
Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


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



A PROJECT REPORT ON
“A STUDY ON AN ANALYSES OF SUPPLY CHAIN
MANAGEMENT AT C.B.K.S.S.K.N.CHIKODI”



SUBMITTED TO

RANI CHANNAMMA UNIVERCITY, BELAGAVI

Course code - D03

IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF
MASTER OF COMMERCE

Academic Year – 2019 -2020

SUBMITTED BY

MISS. SANDHYA R TELI
REG: MC181818

UNDER GUIDANCE OF
Prof. S.A. DESHAPANDE



G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE, Department of PG in Commerce, NIPANI-591239

KLE SOCIETY'S
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE

Department of Post graduate studies in Commerce.

**(AFFILIATED TO RANI CHANNAMMA UNIVERSITY,
BELAGAVI)**



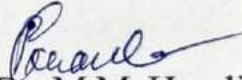
This is to certify that the project report entitled "*AN ANALYSIS OF AN SUPPLY CHAIN MANAGEMENT WITH REPERENCE TO SUGER INDUSTRY*". Is submitted by SANDHYA R TELI in partial fulfillment of the requirements for the award of degree of Master Of Commerce in the Department of Commerce, KLE's G.I.B COLLEGE ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani affiliated to Rani Channamma university, Belagavi, during the academic year 2019-2020.


Prof. smt S. A. Deshpande

Guide


Prof. smt S. A. Deshpande

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


Dr. M.M. Hurali

principle

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



A PROJECT REPORT ON
"FINANCIAL STATEMENT ANALYSIS AURORA APPAREL, NIPANI."



PROJECT REPORT SUBMITTED TO RANI CHANNAMMA
UNIVERSITY, BELAGAVI

Course code - D03

IN PARTIAL FULFILMENT OF THE AWARD OF MASTER OF
COMMERCE

Academic Year 2019-20

Submitted By:

MR. SANJEEV KULARNI

Register Number: MC181819

Internal Guide:

Prof. S P SANSUDDI

External Guide:

KLE SOCIETY'S



G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE Department of
PG studies in Commerce, NIPANI-59123

**KLE SOCIETY'S
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE**

**Department of Post-Graduation Studies in Commerce
(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)**



CERTIFICATE


This is to certify that the project Report Entitled **“FINANCIAL STATEMENT ANALYSIS AURORA APPAREL, NIPANI.”** is submitted by **Mr. SANJEEV KULKARNI (REGISTRATION NO: MC181819)** in partial fulfillment of the requirements for the award of degree of Master Of Commerce in **KLE'S G.I.BAGEWADI COLLEGE ARTS,SCIENCE AND COMMERCE COLLEGE** (Department of post-graduation studies in commerce) NIPPANI.

I further certified that the work is original work and student has made his best effort to bring the work in this format.


Miss. S.P. Sansuddi

Project Guide




Prof. S. A. Deshpande

Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


Dr.M.M. Hurali

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

**A STUDY ON CUSTOMER SATISFACTION
TOWARDS BHARTI AIRTEL**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

course code - D03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

**MR. SHIVARAJ B KAMBALE
Register Number: MC181820**

Project Guide:

Prof. Sangeeta P Sansuddi



**KLE SOCIETY S
G. J. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG Studies in Commerce,
NIPANI-591237**

KLE Society's
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,
NIPANI

DEPARTMENT OF POST GRADUATE STUDIES IN
COMMERCE

(Affiliated to Rani Channamma University, Belagavi)

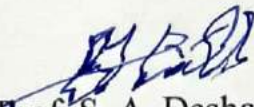


CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON CUSTOMER SATISFACTION TOWARDS BHARTI AIRTEL”** Is submitted to Rani Channamma University, Belagavi by **Mr. Shivaraj B Kambale**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2019-2020.


Prof. S P Sansuddi

Guide


Prof. S. A. Deshapande

Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


Dr. M.M.Hurali

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



**"A FINANCIAL PERFORMANCE AND EVALUATION OF THE PACHHAPUR
URBAN CO-OPERATIVE BANK LTD."**



**PROJECT REPORT SUBMITTED TO RANI CHANNAMMA
UNIVERSITY, BELAGAVI**

Course code- D03

**IN PARTIAL FULFILMENT OF THE AWARD OF MASTER OF
COMMERCE**

Academic Year 2019-20

Submitted By:

MISS. SHREYA AVALAKKI

Register Number: MC181821

Internal Guide:

Prof. PRIYANKA R KAMATE



KLE SOCIETY'S

**G.I, BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE Department of
PG studies in Commerce. NIPANI-591237**

**KLE SOCIETY'S
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE**

**Department of Post-Graduation Studies in Commerce
(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)**



CERTIFICATE

This is to certify that the project Report Entitled "A FINANCIAL PERFORMANCE AND EVALUATION OF THE PACHHAPUR URBAN CO-OPERATIVE BANK LTD." Is submitted by **Miss. SHREYA AVALAKKI (REGISTRATION NO: MC181821)** in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE'S G.I.BAGEWADI COLLEGE ARTS,SCIENCE AND COMMERCE COLLEGE (Department of post-graduation studies in commerce) NIPPANI.

I further certified that the work is original work and student has made his best effort to bring the work in this format.

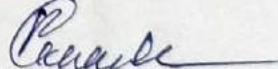

Miss. Priyanka Kamate

Project Guide




Prof. S. A. Deshpande

Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


Dr.M.M. Hurali

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

A PROJECT REPORT ON
"A STUDY ON IMPACT OF LABOUR ABSENTEEISM ON PRODUCTIVITY AT
SHIVSHAKTI SUGARS LTD, SOUDATTI."



PROJECT REPORT SUBMITTED TO RANI CHANNAMMA
UNIVERSITY, BELAGAVI

Course code - D03

IN PARTIAL FULFILMENT OF THE AWARD OF MASTER OF
COMMERCE

Academic Year 2019-20

Submitted By:

MR. SHYAMGOUDA K PATIL

Register Number: MC181822

Internal Guide:

Prof. PRIYANKA R KAMATE

External Guide:

KLE SOCIETY'S G.I. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of PG studies in Commerce. NIPANI-59137



**KLE SOCIETY'S
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE**

**Department of Post-Graduation Studies in Commerce
(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)**



CERTIFICATE


This is to certify that the project Report Entitled "A STUDY ON IMPACT OF LABOUR ABSENTEEISM ON PRODUCTIVITY AT SHIVSHAKTI SUGARS LTD, SOUDATTI." Is submitted by **MR. SHYAMGOUDA PATIL (REGISTRATION NO: MC181822)** in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE'S G.I.BAGEWADI COLLEGE ARTS,SCIENCE AND COMMERCE COLLEGE (Department of post-graduation studies in commerce) NIPPANI.

I further certified that the work is original work and student has made his best effort to bring the work in this format.

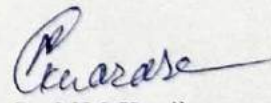

Miss. Priyanka Kamate

Project Guide




Prof. S. A. Deshpande

Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


Dr. M.M. Hurali

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

**A STUDY ON FUND MANAGEMENT AT SHRI
MAHATMA BASAVESHWAR CREDIT
SOUHARD NYT. NIPANI.**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course code - P03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

**MISS.SONALI S KADAM
Register Number: MC181823**

Project Guide:

Prof. PALLAVI M ANKALI



**KLE SOCIETY S
G.I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG Studies in Commerce,
NIPANI-591237**


KLE Society s
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE,
NIPANI
DEPARTMENT OF POST GRADUATE STUDIES IN
COMMERCE


(Affiliated to Rani Channamma University, Belagavi)

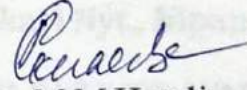


CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON
FUND MANAGEMENT AT SHRI MAHATMA
BASAVESHWAR CREDIT SOUHARD SAHAKARI
NYT. NIPANI”** Is submitted to Rani Channamma University,
Belagavi by **Miss. Sonali S Kadam**, in partial fulfillment of the
requirement for the award of degree of **Master of Commerce**, during
the academic year 2019-2020.


Prof. Pallavi M Ankali
Guide


Prof. S. A. Deshapande
Co-ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


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



**A PROJECT REPORT ON
“A STUDY ON LOANS AND ADVANCES OF
JANATA CO-OPERATIVE BANK
LTD.;HARUGERI BRANCH:RAIBAG.”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

course code - 003

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

**MISS.SOUMYA T. SHETTI
Register Number:MC181824**

Project Guide:

Prof. Pallavi Ankali



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G.I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG Studies in Commerce,
NIPANI-591237**

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DEPARTMENT OF POST GRADUATE STUDIES IN
COMMERCE

(Affiliated to Rani Channamma University, Belagavi)




CERTIFICATE

This is to certify that the project report entitled "A STUDY ON LOANS AND ADVANCES OF JANATA CO-OPERATIVE BANK HARUGERI, BRANCH:RAIBAG "Is submitted to Rani Channamma University, Belagavi by Miss.Soumya T. Shetti, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2019-2020.

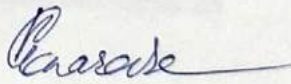

Prof. Pallavi Ankali

Guide




Prof. S. A. Deshpande

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Co-ordinator
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Dr. M.M.Hurali

Principal
PRINCIPAL
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Commerce College, NIPANI.

**IMPACT OF WOMEN EMPOWERMENT
THROUGH THE SELP- HELP GROUPS**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course code - D03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MISS.TEJASHWINI.P.PATIL

Register Number:MC181825

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Prof.Smt.S.P.Sansuddi



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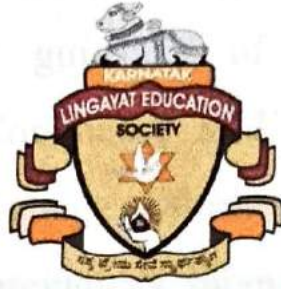
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This is to certify that the project report entitled "**IMPACT OF WOMEN EMPOWERMENT THROUGH THE SELF HELP GROUPS**" is submitted to Rani Channamma University, Belagavi by **Miss. Tejashwini.P.Patil**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2019-2020.


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Dr. M.M.Hurali

Principal

PRINCIPAL
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Commerce College, NIPANI.



A PROJECT REPORT ON
“A STUDY ON COMPARATIVE ANALYSIS OF FINANCIAL
STATEMENT AT BASAVESHWAR CO-OP. CREDIT SOCIETY LTD,
BENADI”



SUBMITTED TO
RANI CHANNAMMA UNIVERSITY, BELAGAVI
IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF
MASTER OF COMMERCE
Course Code - D03
Academic Year 2019-20

SUBMITTED BY
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NIPANI.

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COLLEGE**


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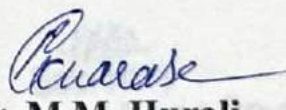


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This is to certify that the project report "A STUDY ON COMPARATIVE ANALYSIS OF FINANCIAL STATEMENT AT SHRI BASAVESHWAR CO-OP. CREDIT SOCIETY LTD., BENADI" submitted by Miss. Vaishali V. Miraje (REG NO: MC181826) in partial fulfillment of the requirements for the award of degree of Master of Commerce in KLE's G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce), Nipani.


Prof. S.P. Sansuddi
Project Guide


Prof. S.A. Deshpande
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Dr. M.M. Hurali
Principal
PRINCIPAL
G.I. Bagewadi Arts, Science &
Commerce College, NIPANI.



A PROJECT REPORT ON
"A STUDY ON GST IMPACT ON PROFITABILITY OF SELECTED
COSMETIC STORES"



SUBMITTED TO
RANI CHANNAMMA UNIVERCITY, BELGAVI
IN PARTIAL FULFILLMENT OF THE AWARD OF DEGREE OF MASTER OF COMMERCE

Academic year – 2019-2020
Course code - 003
SUBMITTED BY

Miss. Varsha B Kore

Registration No : MC181827

UNDER THE GUIDANCE OF

MISS. Shruti Mirje



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Department of Post Graduation Studies in Commerce
(AFFILIATED TO RANI CHANNAMMA UNIVERCITY, BELGAVI)



CERTIFICATE


This is to certify that the project Report Entitled "**A STUDY OF GST IMPACT ON SELECTED COSMETIC STORES**" is submitted by **MISS. VARSHA B KORE (REG NO : MC181827)** in partial fulfillment of the requirement for the award of degree of Master of Commerce in KLE'S G. I. BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE NIPANI

Project Guide

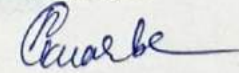

Miss. Shruti Miraje



Co-ordinator


Prof.S.A. Deshpande
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K.L.E's G. I. B. College, Nipani.

Principal


DR.M.M Hurali
PRINCIPAL
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**CUSTOMER PERCEPTION TOWARDS
GENERIC MEDICAL STORE IN REFERENCE
WITH NIPANI CITY**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course Code - P03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MISS.VIDYASHRI MARENNAVAR

Register Number:MC181828

Project Guide:

Prof. P. M. ANKALI



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DEPARTMENT OF POST GRADUATE STUDIES IN
COMMERCE

(Affiliated to Rani Channamma University, Belagavi)



CERTIFICATE

This is to certify that the project report entitled "**CUSTOMER PERCEPTION TOWARDS GENERIC MEDICAL STORE IN REFERENCE WITH NIPANI CITY**" is submitted to Rani Channamma University, Belagavi by **Miss. Vidyashri Marenavar**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2019-2020.


Prof. P. M. Ankali

Guide




Prof. S. A. Deshapande

Co-ordinator

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Dr. M.M. Hurali

Principal

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

A PROJECT REPORT ON
“A STUDY ON CONSUMER PERCEPTION ABOUT SAMARTH MILK
AND MILK PRODUCTS AT SAMARTH DAIRY AND AGRO
PRODUCTS PVT. LTD. KOLHAPUR BRANCH ANKALI”



SUBMITTED TO
RANI CHANNAMMA UNIVERSITY, BELAGAVI
IN PARTIAL FULFILLMENT OF THE AWARD OF
DEGREE OF MASTERS OF COMMERCE

Academic year – 2019-2020

Course code - D03

SUBMITTED BY

Mr. Vinod S Wader

Registration No: MC181829

UNDER THE GUIDANCE OF
MISS. PALLAVI ANKALI



K.L.E. SOCIETY'S
G.I. BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE, NIPANI.

**KLE SOCIETY'S
G.I.BAGEWADI ARTS, SCIENCE AND COMMERCE
COLLEGE**

Department of Post Graduation Studies in Commerce

(AFFILIATED TO RANI CHANNAMMA UNIVERSITY, BELAGAVI)



CERTIFICATE

This is to certify that the project Report Entitled “ **A STUDY ON CONSUMER PERCEPTION ABOUT SAMARTH MILK AND MILK PRODUCTS**” AT **SAMARTH DAIRY AND AGRO PRODUCTS PRIVATE LTD. KOLHAPUR BRANCH ANKALI** is submitted by **Mr. Vinod S. Wader (REGISTRATION NO: MC181829)** in partial fulfillment of the requirements for the award of degree of Master Of Commerce in KLE'S G.I.BAGEWADI COLLEGE ARTS,SCIENCE AND COMMERCE COLLEGE (Department of post graduation studies in commerce) NIPANI.

I further certified that the work is original work and student has made his best effort to bring the work in this format


Miss. Pallavi Ankali

Project Guide




Prof. S.A. Deshapande

Co-Ordinator
Co-ordinator
P. G. [M.Com.]
K.L.E's G. I. B. College, Nipani.


Dr. M.M. Hurali

Principal
PRINCIPAL

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

**“A STUDY ON CHANGING
CONSUMPTION PATTERN
JYOTI BAZAR EXAMBA”**



**PROJECT REPORT SUBMITTED TO THE RANI
CHENNAMMA UNIVERSITY, BELAGAVI**

Course code - P03

**IN PARTIAL FULLFILLMENT OF THE AWARD
OF MASTER OF COMMERCE
Academic Year 2019-2020**

Submitted By:

MR.VISHAL D.PAWAR

Register Number: MC181830

Project Guide

Prof, (miss) PALLAVI M.ANKALI



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Department of PG Studies in Commerce,
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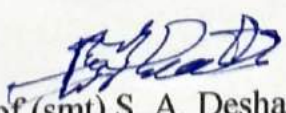
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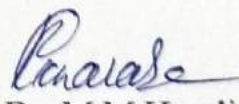


CERTIFICATE

This is to certify that the project report entitled **“A STUDY ON CHANGING CONSUMPTION PATTERN JYOTI BAZAR EXAMBA”** is submitted to Rani Channamma University, Belagavi by **Mr. Vishal D.Pawar** in partial fulfillment of the requirement for the award of degree of Master of Commerce, during the academic year 2019-2020.


Prof. (miss) P.M. Ankali
Guide


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Dr. M.M. Hurali
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