

**OPTIONAL / COMPULSORY SUBJECT FOR THE DEGREE IN SCIENCE
SUBJECTS**

**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 PRACTICALS

1. BOTANY (optional)

B.Sc. III Semester

Subject: BOTANY (optional)

Paper-: Diversity of Cryptogams (Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms) 52 Hrs

Unit I: Algae 10 hrs.

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

Unit II: Fungi 08 hrs.

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 06 hrs.

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 06 hrs.

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 10 hrs.

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

Unit VI: Gymnosperms 08 hrs.

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



Unit VII: Paleobotany

04 hrs.

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

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 and Penicillium.
4. Vegetative, reproductive structures and disease symptoms of Puccinia. Lichens
5. Study of Vegetative and Reproductive structures of Riccia, Anthoceros and Funeria.
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.

B.Sc. III Semester

Botany Practical Examination

Time: 4 Hours Max Marks: 40

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




DEPARTMENT OF BOTANY

Ref.: E:/E/Study tour

Date: 06.10.2016

Report on Study Tour/Field Visit for the year 2016-2017

Name of the Department	Botany							
Name of the Event Organized	One day Tour							
Title of the Event	Sthavanidhi & Ramalingeshwar							
Date of the Event Organized	05.10.2016							
Name of the faculty accompanied	Smt. J.R. Tikke Smt.S.S.Sunnal							
Participants	III sem students							
No. of Participants	Total	34	Teachers	02	Students	34	Others	01
Objectives of the Event	1. To study the Cryptogams 2. To Collect the 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, Commerce and PG College, Nipani-591237

[Accredited at 'A' level by NAAC with CGPA 3.35 in 3rd Cycle]

Website: www.klegibcollege.com

Ph: 08338-220116, 220416

E-mail: klegibnbotany@gmail.com

DEPARTMENT OF BOTANY

Date: 4/10/2016

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. Accordingly the department of botany has organised one day study tour to Sthavanidhi and Ramlingeshwar on 5th October 2016. 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
HEAD
Department of Botany
G. I. Bagewadi College, Nipani.


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

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

Date:04/10/2016

DEPARTMENT OF BOTANY

S.No	Year	Places visited	Class	Days	No. of Students	Staff in charge
1.	2016-17	Sthavanidhi & Ramalingeshwar	III sem	1 Day	34	Smt. J.R. Tikke Smt.S.S.Sunnal

Sl.No	V sem students' List 2017-18	Sl.No	Vsem students' List 2017-18
1	Achal Magadam	19	Pallavi Nagave
2	Akshay Havaladar	20	Shivani Patil
3	Ankita Magadam	21	Pragati Patil
4	Arati Bhalebhaldar	22	Reshma Chougule
5	Archana Kumbar	23	Rushikesh Majage
6	Ashwini Sabale	24	Sanobar Mulla
7	Chaitanya Chavan	25	Shraddha Sangane
8	Harsha Shirkoli	26	Shruti Chonchannavar
9	Varsha Jabade	27	Sonali Naik
10	Kalyani Shitole	28	Tejashree Mangavate
11	Karishma Halkarni	29	Trupti Kamble
12	Kaveri Kumbar	30	Uzma Mulla
13	Laxmi Shetti	31	Varsha Kenawade
14	Mahadevi Bhanase	32	Vijaykumar Karoshi
15	Maruti Gurav	33	Yashodha Hunakumpi
16	Mayuri Jasud	34	Megharani Patil
17	Nilam Patil		
18	Pallavi Kumbar		


HOD
HEAD

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


IQAC Coordinator

Co-ordinator IQAC
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Principal
PRINCIPAL

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

Group – II
OPTIONAL / COMPULSORY SUBJECT FOR THE DEGREE IN SCIENCE
SUBJECTS

**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 PRACTICALS

I. BOTANY (optional)

SEMESTER-IV

I DIVERSITY OF ANGIOSPERMS AND THEIR SYSTEMATICS

60 hrs

Section – I

Morphology and Taxonomy

- Unit 1: Angiosperms: origin and evolution. **2 hrs.**
- Unit 2: Morphology of Angiosperms – Study of roots, stems, leaves and their modifications.
Study of Inflorescence, flower and fruits **10 hrs.**
- Unit 3: Angiosperm taxonomy: Brief history, botanical nomenclature, principles and rules,
taxonomic ranks, type concept and principle of priority. **4 hrs.**
- Unit 4: Classification of Angiosperms : systems proposed by Bentham and Hooker and Engler
prantl. Their salient features, merits and demerits. Major contributions of cytology
(cytotaxonomy), phytochemistry (chemotaxonomy) and taxometrics (numerical
taxonomy) to taxonomy **6 hrs.**
- Unit 5: Diversity of flowering plants as illustrated by members of the following families:
Magnoliaceae ,Annonaceae, Brassicaceae, Malvaceae, Rutaceae, Rhamnaceae,
Anacardiaceae, Fabaceae Myrtaceae, Combretaceae, Cucurbitaceae, Apiceae, Rubiaceae,
Asteraceae, Sapotaceae, Apocyanaceae Asclepiadaceae, Convolvulaceae, Solanaceae,
Acanthaceae, Verbenaceae, Lamiaceae, Amaranthaceae, Euphorbiaceae, Urticaceae,
Orchidaceae, Amaryllidaceae, Liliaceae, Arecaceae and Poaceae. **24 hrs**

Section – II

Economic Botany and Medicinal botany

Economic Botany:

Food plants: Rice, Wheat, Maize, Pulses, Potato and Sugarcane

Fibres: Cotton, Jute, Agave and Deccan hemp

Vegetable oils: Ground nut, Sunflower, Coconut, Palm oil and Castor

General account and sources of Timber: Teak and Sissoo

Paper & pulp: Bamboo & Eucalyptus

Spices: Ginger, Cinnamom and Cardamom

Beverages: Tea & Coffee

Rubber: Hevea sp.

10 hrs.



Medicinal botany:

Plants in primary health care: common medicinal plants- Tippateega (*Tinospora cordifolia*), Tulsi (*Oscimunsanctum*) Kalabanda (*Aloe-vera*) Turmeric (*Curcuma longa*) Ashwagandha (*Withania somnifera*) and Sarpagandha (*Rauwolfia serpentina*) **4 hrs**

Practicals:-

1. Morphology of Root , Stem and their modifications.
2. Morphology of Leaf and its modifications.
3. Study of Inflorescence and its types.
4. Study of Flower- Descriptive terms, Thalamus, Calyx, Corolla and Aestivation.
5. Study of Flower –Androecium and Gynoecium.
6. Study of Fruit types.
7. Study of any 20 families representing from polypetalae, gamopetalae, apatalae and monocots available in the locality.
8. Economic botany
9. Study of Medicinal Plants available in the locality.
10. 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 ress, 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, newyork.
5. Radford, A.E. 1986. fundamentals of plant systematics. Harper and Row, newyork.
6. Singh, G. 1999. plant systematics; theory and practice. Oxford and IBH, newdelhi.
7. Atace, C.A. 1989. plant taxonomy and bio systematics (2nd edition). Edward Arnold, London.
8. Dutta, S.C. 1988. systematic botany. walley eastern, newdelhi.
9. Jaques, H.E. 1999. plant families- how to know them. IBS, newdelhi.
10. Lawrence, G.H.M. 1951. taxonomy of vascular plants. Macmillan, newdelhi.
11. Stewart, W.M. 1983. Paleobotony and the evolution of plants, cambridge university press, cambridge.
12. Joshi S.G. .medicinal plants oxford and IBH newdelhi.
13. Kokate and Gokeale _pharmacognacy. Nerali publication , newdelhi.
14. Lad v Ayurveda- the scince of self healing- motilal banarasidas, newdelhi.
15. Lewis W.H. and M.P, F Elwin Lewis 1976, medical botony plants affecting maris health. A wiley interscience publication, Jhon willey and sons newyork.
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, Macmillian 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.
26. Jain S.K. – Medicinal Plant.

**B.SC. IV SEMESTER
PRACTICAL EXAMINATION**

Time : 4 Hours Max Marks: 40 Marks

- | | |
|---|-----------|
| Q1. Assign the specimens A,B,C&D to the respective families giving diagnostic features and their classifications. | 10 Marks |
| Q2. Draw the floral diagram and write the floral formula of specimen "E" | 03 Marks |
| Q3. Explain the morphological peculiarities observed in the specimens F, G, H & I | 10 Marks |
| Q4. Identify giving botanical name and family of specimens J , K ,L & M. Mention the parts used & their uses. | 08 Marks |
| Journal | 05 Marks. |
| Study tour report | 04 Marks |


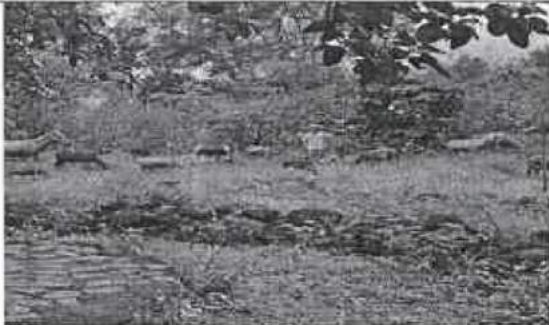


DEPARTMENT OF BOTANY

Ref.: E:/E/Study tour

Date: 11.04.2017

Report on Study Tour/Field Visit for the year 2016-17

Name of the Department	Botany
Name of the Event Organized	One Day Tour
Title of the Event	Kaneriwadi
Date of the Event Organized	11.04.2017
Name of the faculty accompanied	Smt. S.S.Sunnal & Smt. J.R.Tikke
Participants	IV semester students
No. of Participants	Total 37 Teachers 02 Students 35
Objectives of the Event	<ol style="list-style-type: none"> 1. To study the taxonomy 2. To study the Distribution of angiosperms
Outcome of the Event	<ol style="list-style-type: none"> 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
 G. I. Bagewadi College, Nipani.


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Co-ordinator IQAC
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PRINCIPAL
 Principal,
 G. I. Bagewadi Arts, Science &
 Commerce College, NIPANI.



DEPARTMENT OF BOTANY

Date: 10/04/2017

To,

The Principal,
KLES G I Bagewadi College
Nipani.

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

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 organised one day study tour on 11th April 2017. Hence, I request you kindly permit us to conduct the study tour to Kaneriwadi for taxonomical and biodiversity study. Faculty of the Botany department will accompany the students.

Thanking You

Yours Sincerely

HOD

HEAD

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

PRINCIPAL

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

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

Date: 10.04.2017

DEPARTMENT OF BOTANY

S.No	Year	Places visited	Class	Days	No. of Students	Staff in charge
1.	2016-17	Kaneriwadi	IV sem	1 Day	35	Smt. J.R. Tikke Smt.S.S.Sunnal

Sl.No	IV sem students' List 2017-18	Sl.No	IVsem students' List 2017-18
1	Achal Magadam	19	Pallavi Kumbar
2	Aishwarya Modi	20	Pallavi Nagave
3	Akshay Havaladar	21	Shivani Patil
4	Ankita Magadam	22	Pragati Patil
5	Arati Bhalebhaladar	23	Reshma Chougule
6	Archana Kumbar	24	Rushikesh Majage
7	Ashwini Sabale	25	Sanobar Mulla
8	Chaitanya Chavan	26	Shraddha Sangane
9	Harsha Shirkoli	27	Shruti Chonchannavar
10	Varsha Jabade	28	Sonali Naik
11	Kalyani Shitole	29	Tejashree Mangavate
12	Karishma Halkarni	30	Trupti Kamble
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18	Nilam Patil		


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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:

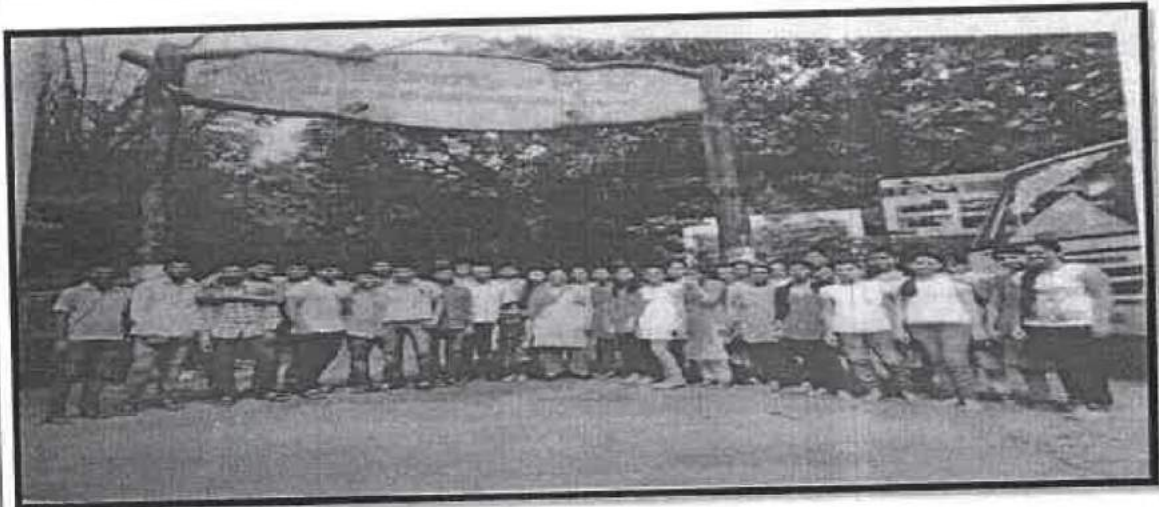
1. Study of frequency and density of herbaceous plants by quadrat method.
2. To determine moisture content and water holding capacity of different types of soils.
3. To estimate the alkalinity of water samples.
4. Ecological instruments.
5. Morphology and anatomical adaptations in three hydrophytes.
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 nearby 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.

DEPARTMENT OF BOTANY

Ref.: E:/E/Study tour

Date: 18.10.2019

Report on Study Tour/Field Visit for the year 2016-17

Name of the Department	Botany							
Name of the Event Organized	Three days Study Tour							
Title of the Event	Dandeli, Kulagi and Ulavi forests							
Date of the Event Organized	07.09.2016 to 9.09.2016							
Name of the faculty accompanied	Smt .S.B.Patil Smt .S.S.Sunnal							
Participants	V sem students							
No. of Participants	Total	34	Teachers	03	Students	30	Others	01
Objectives of the Event	1. To study the Ecological Adaptations 2. To study the Distribution of Plants							
Outcome of the Event	1. Students understood the Ecological Adaptations 2. Students understood the Distribution of Plants							
Photo Gallery								


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


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


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

From,

B.Sc V Sem students CBZ combination.

To,

The Principal,
G.I. Bagewadi College
Nipani.

Sir,

Subject - Permission to study tour.

As per syllabus of RCU Belagavi, there is a compulsory study tour on ecological studies. After discussing with Staff & HOD of Botany it is decided to visit Khanapur, Dandeli, Ulavi forests Gokarna, Murdeshwar, Idagunji, Dharmastala and back to Nipani. We request you to kindly give us permission for the same.

For your kind information we are submitting a copy of willingness signatures of students here with.

We are leaving nipani on 07th oct 2016 morning by 7' o'clock
and will be back on 9th oct 2016 afternoon

Date. 06.10.16

Place. Nipani

Students B.Sc V sem Botany



M. B. Gite
6/10/2016
Principal,
G. I. Bagewadi Arts, Science &
Commerce College, NIPANI

Date: 06.10.2016

①

To,
The Depo Manager
Nipani Depo
Nipani

Subject: To Spare Bus to our college students

Sir,

With respect to the above mentioned subject we request you to spare bus and driver to our college students who are undertaking the study tour as a part of their syllabus. We also request you to give concessional rate per Kilometer.

Our schedule starts from Nipani –Belgaum –Khanapur-- Dandeli –Ulavi-Gokarna-

Murdeswar-Idagunji-Dharmastala and back to Nipani

We need bus for three days i.e. from 7th oct 2016 to 9th oct 2016.

Thanking,

Yours faithfully

M. B. Chole
PRINCIPAL

Principal,

6/10/2016
S. 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.klegibcollege.com

Ph: 08338-220116, 220416

E-mail: klegibbotany@gmail.com

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

Date: 06.10.2016

DEPARTMENT OF BOTANY

S.No	Year	Places visited	Class	Days		Staff in charge
1.	2016-17	Dandeli, Kulagi and Ulavi forests	V sem	3 Days	30	Smt .S.B.Patil Smt .S.S.Sunnal

Sl.No	V sem students' List 2016-17	Sl.No	V sem students' List 2016-17
1	Abhishek Sultannavar	16	Ranjit Punde
2	Vishal Awati	17	Rohini Patil
3	Balakrishna Patil	18	Sagar Sangane
4	Chinmay Kulkarni	19	Sanmati Mekkalike
5	Farheen Jamadar	20	Nikita Sawant
6	Saniya Jamadar	21	Sheetal Shirole
7	Suhasini Kadam	22	Shekhar Jole
8	Kirti Patil	23	Shivanand Shendre
9	Tejaswini Kondekar	24	Sujata Magadum
10	Komal Mahajan	25	Suraj Patil
11	Nisha Magadum	26	Suraj Patil
12	Shweta Patil	27	Swati Sankpal
13	Praveen Batte	28	Vivek Chavan
14	Priyanka Shinde	29	Preeti Yadav
15	Priyanka Kamate	30	Deepika. Hulikuppi


HOD

HEAD

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


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Principal

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

Q. 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.



Suggested Reading:

1. Cell & Molecular Biology -- By E.D.F. De Robertis -- ISE Publication
2. Basic Biotechnology -- Colin Rateledge
& Bjorn Kristianses -- Cambridge Uni. Press.
3. A Text Book of Biotechnology – R.C. Dubey – S. Chand Publication
4. Cell Biology, Genetics Molecular Biology, Evolution & Ecology
-- P.S. Verma & V. K. Agarwal
5. Casida L.E. (1984)- Industrial Microbiology, Wiley Easterbs, New Delhi.
6. Roitt- Immunology
7. Kubey - Immunology.
8. Fatima - Immunology

B.Sc. VI Semester

Practical Paper-II

(Molecular Biology, Biotechnology & Immunology)

Time: 4 Hours

Max Marks: 40

- | | | |
|------|--|-----------|
| Q.1. | Estimation of DNA/RNA from the given sample A. | 10 Marks |
| Q.2. | Estimation of Protein from the unknown sample B. | 10 Marks |
| Q.3. | Identify and comment C and D. | 5 Marks |
| | Project report submission and Viva voce. | 10 Marks. |
| | Journal. | 05 Marks |

DEPARTMENT OF BOTANY

Ref.: E/E/Study tour

Date: 10.03.2017

Report on Study Tour/Field Visit for the year 2016-17

Name of the Department	Botany							
Name of the Event Organized	One day Visit to Biotech lab							
Title of the Event	Dr. Prabhakar Kore Basic Science Research Centre, Belagavi.							
Date of the Event Organized	09.03.2017							
Name of the faculty accompanied	Smt.S.B.Patil , Smt. J .R. Tikke and Smt.S.S.Sunnal							
Participants	VI sem students							
No. of Participants	Total	38	Teachers	03	Students	35	Others	-
Name of the Expert with Designation	Dr. Sunil Doddamani							
Contact Number & Address of the Expert	8217781235, BSRC Belagavi							
Objectives of the Event	1. To study the Research Laboratory 2. To observe the various biotechnological instruments							
Outcome of the Event	1. Students observed the Research laboratory 2. Students could see the various Biotechnological Instruments							
Photo Gallery								




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


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


PRINCIPAL
PRINCIPAL
 G. I. Bagewadi Arts, Science &
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K.L.E. Society's

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Website: www.klegibcollege.com

E-mail: klegib_npn@yahoo.co.in

4

DEPARTMENT OF BOTANY

Ref: GIBN/Bot/ 16-17

Date: 03.03.2017

To,

Dr. Sunil Jalalpure

M.Pharma, Ph.D

Prof. of Pharmacognosy & Deputy director

Dr. Prabhakar Kore Basic Science Research Centre

K.L.E. University Belagavi

Sir,

Subject: – Request to grant permission to visit your BSRC Belagavi.

As per the syllabus of RCU Belagavi, for VI semester Botany, there is a compulsory visit to the Biotechnology laboratory and Research centre. In this respect we request you to grant permission to visit your BSRC Belagavi on 9th March 2017

We hope you will consider our request and do the needful.

Thanking you,

Yours faithfully,

HOD

HEAD

Department of Botany

G. I. Bagewadi College, Nipani.

PRINCIPAL

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



K. L. E. Society's

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Ph: 08338-220116, 220416

E-mail: klegibbotany@gmail.com

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

Date:

DEPARTMENT OF BOTANY

S.No	Year	Places visited	Class	Days	No. of Students	Staff in charge
1.	2016-17	Dr. Prabhakar Kore Basic Science Research Centre, Belagavi.	VI sem	1 Day	35	Smt.S.B.Patil Smt. J.R. Tikke Smt.S.S.Sunnal

Sl.No	VI sem students' List 2016-17	Sl.No	VI sem students' List 2016-17
1	Abhishek Sultannavar	19	Ranjit Punde
2	Vishal Awati	20	Rohini Patil
3	Balakrishna Patil	21	Sachin Kulkarni
4	Avadhut Chinchane	22	Sagar Sangane
5	Chinmay Kulkarni	23	Sanmati Mekkali
6	Farheen Jamadar	24	Nikita Sawant
7	Saniya Jamadar	25	Sheetal Shirole
8	Suhasini Kadam	26	Shekhar Jole
9	Kirti Patil	27	Shivanand Shendre
10	Tejaswini Kondekar	28	Sujata Magadum
11	Komal Mahajan	29	Sujata Kumbar
12	Nisha Magadum	30	Suraj Patil
13	Rutuja Patil	31	Suraj Patil
14	Shweta Patil	32	Swati Sankpal
15	Pooja Lukk	33	Vivek Chavan
16	Praveen Batte	34	Preeti Yadav
17	Priyanka Shinde	35	Deepika. Hulikuppi
18	Priyanka Kamate		

HOD
HEADDepartment of Botany
G. I. Bagewadi College, Nipani.

IQAC Coordinator

Co-ordinator IQAC
K. L. E. Society's
G. I. Bagewadi College, Nipani.Principal
PRINCIPALG. I. Bagewadi Arts, Science &
Commerce College, NIPANI.

17/8

**B.Sc. V Semester
(w.e.f : 2016 – 17)
Botany Paper – I**

Paper-I: Plant Breeding, Tissue Culture & Horticultural Practices. 50 Hrs

Objectives: This paper includes some topics in horticulture like- Nursery, Green House Technology, Harvest and Weed Management. These will be of much help to the students residing in rural and urban areas to generate employment.

Unit 1: Plant Breeding: History and objectives. Introduction, Selection (Pure line, Mass election), Hybridization- inter specific and inter generic. Mutational & Polyploidy breeding. Germ plasm and its maintenance. Pollen Bank, Quarantine method. **10 Hrs.**

Unit 2: Plant Tissue Culture: Scope and Significance. Basic Aspects and Cellular totipotency (Shoot tip, Embryo and Haploid culture techniques). Differentiation and morphogenesis. **10 Hrs.**

Unit 3: 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 4: Green House Technology – Introduction, advantages and limitations.
Types of Green Houses- Green House structure, principle
Green house technology as applied to ornamental, vegetable and fruit plants. **08 Hrs.**

Unit 5: 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.



19-20

Zoology

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 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. 07 hrs
- 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 Nutitive value of Milk
- Lac culture: Classification of Lac insect (Tearchardia lacca, Life history of Lac Insect. Host plants, Cultivation of Lac. Composition and properties & Economic importance 3 hrs.



2017-18 VI Sem P-I

Practicals - 6.1

Total -11 Practicals

- 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.





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Ref. No.: GIB/

Date: 11/01/2017

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 12/01/2017 to study about applied zoology about Dairy Farming, Sericulture, Vermiculture, Poultry Farming, and Insect Pest Management for B.Sc. VI Sem students. 37 students have enrolled their names. Miss. S. M. Hegade and Miss. Tanu Kumbar 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
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Commerce College, NIPANI



Applied Zoology (Field Work)			
2016-17	B.Sc VI Semester P-I		
SR.NO.	ROLL.NO	NAME OF THE STUDENTS	Name of the project
1	66	Abhishek Sultannavar	Dairy farming
2	67	Vishal Awati	Dairy farming
3	68	Balkrishna Patil	Dairy farming
4	69	Avadhut Chinchane	Dairy farming
5	70	Chinmay Kulkarni	
6	71	Farhaan Jamadar	Dairy farming
7	72	Saniya Jamadar	Poultry
8	73	Suhasini Kadam	Poultry
9	74	Kirti Patil	Poultry
10	75	Tejashwini Kondekar	Poultry
11	76	Komal Mahajan	Poultry
12	77	Nisha magadam	Poultry
13	78	Rutuja Patil	Sericulture
14	79	Shweta patil	Sericulture
15	80	Pooja Lukk	Sericulture
16	81	Pravin Batte	Sericulture
17	82	Priyanka Shinde	Sericulture
18	83	Priyank kamate	Sericulture
19	84	Ranjit Punde	Insect pest Management
20	85	Rohini Patil	Insect pest Management
21	86	Sachin Kulkarni	Insect pest Management
22	87	Sagar Sangane	Insect pest Management
23	88	Sanmati Mekkalike	Insect pest Management
24	89	Nikhita Savant	Insect pest Management
25	90	Sheetal Shirole	Vermiculture
26	91	Shekhar Jolee	Vermiculture
27	92	Shivanand Shendre	Vermiculture
28	93	Sujata Magadam	Vermiculture
29	94	Sujata Kumbhar	Vermiculture
30	95	Suraj J Patil	Vermiculture
31	96	Suraj K Patil	
32	97	Swati Sankpal	Poultry
33	98	Vivek Chavan	Sericulture
34	99	Preeti Yadav	Insect pest Management
35	100	Deepika Hulikoppe	Vermiculture

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







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REPORT ON : POULTRY FARM

Name of the Department	Zoology
Name of the Event Organized	Field Visit
Title of the Event	Poultry farm (breeds of fowls, economic status, poultry house management)
Date of the Event Organized	08.02.2016
Class	B.Sc VI Sem
Name of the Convener	Smt.H.I.Halappanavar
Participants	44
No. of Participants	Total 44 Teachers 02 Students 42
Name of the Expert with Designation	Miss.T.M.Kumbar
Contact Number & Address of the Expert	9902344050
Objectives of the Event	Commercial poultry enterprise that will be profitable.
Outcome of the Event	To develop of owners plan of poultry farming.
Photo Gallery	
	
Boiler Hen.	Poultry form at Allur.


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Co-ordinator IQAC
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Rani Channamma University, Belagavi
B.Sc VI Semester 6.2

Paper II
(Microbiology, Nanotechnology, Bioinformatics and Methods in Biology)

Total hours - 50
Marks - 80
Theory 4 hrs/week

Microbiology

1. Microscopy : Compound Microscope and its functions 03 hrs
Dark field microscope. Fluorescent Microscope
Phase Contrast Microscope and Electron Microscope and
their uses
2. Sterilization and other Techniques _ Physical and Chemical methods 01 hr
Bacteria Classification based on shapes, structure (anatomy) Bacterial 02 hrs
reproduction and growth.
3. Virus _ Morphology, chemical properties, classification and nomenclature 02 hrs
DNA and RNA viruses.
4. Fungi: Structure, classification and reproduction, Yeasts 02hrs
5. Fermentation: Types of Fermentor and basic functions 03hrs
Methods of preservations and criteria for the selection of microorganisms
6. Production of antibodies Penicillin, Streptomycin, Enzyme protease,
Riboflavin. 02hr
7. Ormal microbial flora of the human body 01hr
- 8 Role of microbes in environment 01hr

Nanotechnology

4hrs

Introduction : History Name, Tools and Techniques in Nanotechnology.

Nanobiology; application of Nano in biology- Nano drug Administration Diagnostic & Therapeutic applications. Lotus effect, Gold & Silve Nanotechnology. Curcumin phytochemicals, Cinnamon in green nano technology.



Bioinformatics

1 Introduction: Definition, Goal of Bioinformatics, Sequencing, Sequences analysis and Structure analysis
Applications of Bioinformatics. 02hrs

2. Classification of Biological Data Bases. Characteristics of FASTA (Fast Alignment) BLAST (Basic Local Alignment Search Tool). 02hrs

3. Aims and goals of Human Genome Project: Main findings of human genome Project., Prediction and tools for gene prediction. Comparative genomics. 02hrs

4. Proteomics: Two dimensional Gel Electrophoresis
Mass spectrometry, SDS __ PAGE
Structure of protein __ Primary, Secondary, Tertiary and Quarternary. 02hrs

Protein structure prediction 01hr

Application of Proteome analysis 01hr

The future of Proteomics 01hr

Methods in Biology

Techniques of Cell fraction and Centrifugation.
Homogenization and cell tissue disruption
Centrifugation, Ultra centrifugation. 02hrs

DNA Sequencing, __ In situ Hybridization, DNA microchips 02hrs

Genetic Engineering in animals- Transgenic Mouse, Transgenic sheep, Genetically Altered Fish, Mosquito and Drosophila. 02hrs

Gene therapy in Humans 02hr

Histochemical and Immunization Techniques __ ELISA, RIA, Flow Cytometry 02hrs



B.Sc II Semester Syllabus

ZOOLOGY (Optional)

Total Marks-80

Total Teaching-50hrs.

Biology of Chordates

UNIT-I Chordates: General characters and classification.

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). 18 hrs

UNIT-II

Pisces: General characters & Classification of Pisces up to orders 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 Examples. Type study Frog- Externals characters, Digestive system, Circulatory & Reproductive system. Axolotl larva & its significance. 5hrs

UNIT-III

Reptilia: General characters & classification up to orders with Examples. Type study Calotes-Externals characters, Digestive system, Circulatory & Reproductive system. Indian poisonous & non-poisonous snakes. 5hrs
Aves - General characters & Classification up to orders with. Examples Type study Pigeon- Externals characters, Digestive System, Respiratory & Reproductive system. Bird migration, Flight adaptations, Flightless birds, Beak & Feet modification. 10hrs

UNIT-IV

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



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

PRACTICALS

Total Practicals -12

1. Classification of Urochordata, Cephalochordata, Cyclostomes 01
Examples: Balanoglossus, Herdmania, Branchiostoma, Peteromyzon.
2. Classification of Fishes - 01 Examples: Scoliodon, Pristis, Sphyrna, Catla catla, Labeo rohita, Hippocampus, Eel, Exocoetus & Synaptura.
3. Classification of Amphibia – 01 Examples: Frog, Toad, Ichthyophis, Ambystoma, Axolotl Larva & Rhacophorus.
4. Classification of Reptilia- 01 Examples: Calotes, Hemidactylus, Chaemoleon, Mabuya Draco, Naja naja, Python, Viper, Turtle and Crocodile.
5. Classification of Aves – 01 Examples: Psittacula, Owl, Woodpecker, Pigeon and Passer domesticus.
6. Classification of Mammalia – 01 Examples: Sorex, Bat, Loris, Pangolin, Hystrix, Herpetes & Funambulus.
7. Study of Comparative Anatomy: Heart and Brain in Fishes, Amphibians, Reptiles, 02 Aves and Mammals

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).





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Ref. No.: GIB/

Date: 25/02/17

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 26/02/2017 at early morning 6.30am for the study of different varieties of birds for B.Sc. II Sem students. 40 students have enrolled their names. Miss. Tanu Kumbhar and Miss. 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.



(Animal Diversity-Bird watching project) (Field Visit)
2016-2017
B.Sc II Sem

Sr.No	Roll No	Name Of The Students
1	64	Soumya Patil
2	82	Sneha kambale
3	83	Vaishnavi Ambale
4	85	Komal Kadam
5	86	Pallavi Sangane
6	87	Madhuri Shelke
7	88	Dhanashree hasure
8	89	Seema Lagamannavar
9	90	Chaitra Hosure
10	91	Sunita Patil
11	92	Nutan Shettimani
12	93	Pranali Chavan
13	94	Jayashree Balikai
14	95	Divya Chandrakude
15	96	Vaishnvi Ajarekar
16	97	Dhanashree Chalake
17	98	Shweta Sapagale
18	99	Pooja Karekar
19	100	Dhanashri Patil
20	101	Yogesh Varute
21	102	Omkar Magadum
22	103	Shivatej Chougule
23	104	Gouravkumar Chougule
24	105	Abhishek Chougale
25	106	Sangram Sanadi
26	107	Aditya Patil
27	108	Narendra Patil
28	109	Rahul V Hatakar
29	111	Sharad Banne
30	112	Ashrafali Bargir
31	113	Manoj Kumbar
32	114	Shashikumar Kukanoor
33	115	Amit Ammanagi
34	116	Malagoud Patil
35	117	Mahesh Raval
36	118	Santosh Bilage
37	119	Sheetal Magadum
38	120	Devyani Khot
39	122	Shwata Patil
40	125	Rachana Patil
41	128	Nootan Kurane
42	129	abhishek Narayankar
43	135	Arati Gore
44	136	Pooja Ghorapade
45	141	Chaitali Hegade
46	148	Tejas B Patil
47	124	Digvijay Nigave





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Ref. No.: GIB/

Date: 26/02/2017

REPORT ON - "BIRD WATCHING"

Name of the Department	Zoology
Name of the Event Organized	Field visit
Title of the Event	"Bird watching"
Date of the Event Organized	26.02.2017
Class	B.Sc. II Sem
Field visit location	ARS Campus, Nipani
Name of the Convener	Smt. H. I. Halappanavar
Participants	49
No. of Participants	Total 47 Teachers 02 Students 49
Name of the Expert with Designation	Miss. Tanu Kumbar
Contact Number & Address of the Expert	9902344050 A/P: Nipani Tq: Chikkodi Dist: Belagavi
Objectives of the Event	To study different varieties of birds in their natural habitat
Outcome of the Event	1. Students understood about diversity of birds and their behavior. 2. Students come to know about which types of birds are present in ARS Campus around GIB College, Nipani.
Photo Gallery	
	
Eurasian collar dove.	Bird watching Agriculture Resource Centre.


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Co-ordinator IQAC
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RANI CHANNAMMA UNIVERSITY, BELAGAVI

WEL-COME

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

IV Semester

w.e.f.

Academic Year 2015-16 and onwards



17-18 10

13. ZOOLOGY (Optional)

B.Sc.4th Semester Scheme(CBSC – Pattern)

Zoology (Optional) Revised syllabus
2015-16 onwards

Cell Biology, Histology and Animal Behaviour

Total Teaching hours-50
Total Marks-80
Theory 4hrs/week

UNIT - I

Cell Biology

Cell Biology- Ultra structure of animal cell. Cell theory & cell cycle
Ultrastructure & function of cell organelles - Plasma membrane, Endoplasmic
reticulum, Ribosomes, Golgi-complex
Lysosomes, Mitochondria & Nucleus. 1 hr 34
8 hrs 31

Chromosomes - Structure & types of chromosomes.
Ultra structure of chromosome 2 hrs 34

UNIT - II

Cell division-Types- mitosis & meiosis. 3 hrs 31

Cellular Aging and Cell Death:
Concept of Aging theories: 3 hrs 1K

Intracellular changes, free radicals, somatic nutrition, immunological, clonal
selection and errors in DNA and RNA functions.

Extracellular changes,
Cell Death: Apoptosis, Necrosis, definition and significance

Cancer Cell:
Characteristics: 3 hrs 1K

Theories /Hypothesis regarding causes of cancer.
Extrinsic factors, Physical, Chemical and Biological.
Intrinsic factors, somatic mutations and oncogenes and aging related phenomenon.



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 : Lamarckism, Darwinism, Mutation Theory And the Modern Synthesis Theory;(population gene Pool, Gene Frequency . Variations — gene mutation, chromosomal mutation; Isolation and recombination.Genetic drift,Hardiwienberg equilibrium)	06hrs
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 & Valantine

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 andBradly.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	=

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: 24/10/2016

DEPARTMENT OF ZOOLOGY

Field Visit – Study of Biodiversity (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 to Ramling on 25/10/2016 at early morning 8.30am for the study of animal biodiversity for B.Sc. V Sem students. 35 students have enrolled their names. Miss.T.M.Kumbar 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.



Study of Ecosystem(Study Tour)		
2016-17		B.Sc. V Sem P-I
SR.NO.	Roll. No.	NAME OF THE STUDENTS
1	66	Abhishek Sultannavar
2	67	Vishal Awati
3	68	Balkrishna Patil
4	69	Avadhut Chinchane
5	70	Chinmay Kulkarni
6	71	Farhaan Jamadar
7	72	Saniya Jamadar
8	73	Suhasini Kadam
9	74	Kirti Patil
10	75	Tejashwini Kondekar
11	76	Komal Mahajan
12	77	Nisha magadum
13	78	Rutuja Patil
14	79	Shweta patil
15	80	Pooja Lukk
16	81	Pravin Batte
17	82	Priyanka Shinde
18	83	Priyank kamate
19	84	Ranjit Punde
20	85	Rohini Patil
21	86	Sachin Kulkarni
22	87	Sagar Sangane
23	88	Sanmati Mekkalike
24	89	Nikhita Savant
25	90	Sheetal Shirole
26	91	Shekhar Jolee
27	92	Shivanand Shendre
28	93	Sujata Magadum
29	94	Sujata Kumbar
30	95	Suraj J Patil
31	96	Suraj K Patil
32	97	Swati Sankpal
33	98	Vivek Chavan
34	99	Preeti Yadav
35	100	Deepika Hulikoppe

Hapas

Department of Zoology
G. L. Bagewadi College, Nipani





K.L.E. Society's
G.I. Bagewadi Arts, Science, Commerce and PG College, Nipani-591237
Re-accredited at 'A' level by NAAC with CGPA 3.35



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: 25/10/2016

REPORT ON - "STUDY OF ECOSYSTEM"

Name of the Department	Zoology
Name of the Event Organized	Field visit
Title of the Event	"Study of Ecosystem"
Date of the Event Organized	25 Oct 2016
Class	B.Sc. V Sem
Field visit location	Ramling, Nipani
Name of the Convener	Dr. V. R. Naik, Associate Professor
Participants	35
No. of Participants	Total 36 Teachers 01 Students 35
Name of the Expert with Designation	Miss. T. M. Kumbar, Assistant Prof.
Contact Number & Address of the Expert	9886434044. A/P-Appachiwadi. Tal-Chikodi, Dist-Belagavi
Objectives of the Event	Study of biotic and abiotic factor and there inter relations.
Outcome of the Event	1. The students are got knowledge about Pond Ecosystem. 2. Students got knowledge about Producers, Consumers and Decomposers.
Photo Gallery	
	
Field visit to Ramling	Field visit to study Ecosystem


HOD

Department of Zoology
G. I. Bagewadi NIPANI


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


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

RANI CHANNAMMA UNIVERSITY, BELGAUM



**Syllabus for
P.G. Department of Studies in COMMERCE
(I TO IV Semesters)**

**Under Choice Based Credit System From
2011 – 12 and Onwards**



SEMESTER	PAPER CODE	COURSE	MARKS			HRS/ WEEK	CREDITS
			IA	SEM END	TOTAL		
IV	COMPULSORY COURSES						
	4.1	CORPORATE GOVERNANCE	20	80	100	04	04
	4.2	INTERNET TECHNOLOGIES FOR BUSINESS	20	80	100	04	04
	4.3	INFRASTRUCTURE DEVELOPMENT AND FINANCE	20	80	100	04	04
	SPECILIZATION COURSES						
	GROUP A: ADVANCED COST ACCOUNTING						
	4.4	TECHNIQUES OF COSTING	20	80	100	04	04
	4.5	STRATEGIC COST MANAGEMENT	20	80	100	04	04
	4.6	PROJECT REPORT VIVA-VOCE	50	50	100	04	04
	GROUP B: BUSINESS FINANCE AND ACCOUNTING						
	4.4	FINANCIAL MARKETS AND INSTITUTIONS	20	80	100	04	04
	4.5	INNOVATIONS IN ACCOUNTING	20	80	100	04	04
	4.6	PROJECT REPORT VIVA-VOCE	50	50	100	04	04
	GROUP C: BANKING						
	4.4	FOREIGN EXCHANGE AND RISK MANAGEMENT	20	80	100	04	04



**JOB SATISFACTION FOR EMPLOYEES A CASE STUDY
OF HALASIDHANATH SAHAKARI SAKHAR KARKHANA
LTD, NIPANI.**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS. AMRUTA .A. BUBANALE
Register Number: MC151802**

**Project Guide:
Prof. B.S. KAMATE**

**External Guide:
Mr. A. D. PATIL**



**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 “**Job Satisfaction for employees a case study of Halasidhanath Sahakari Sakhar Karkhana ltd, Nipani.** ” is submitted to Rani Channamma University, Belagavi by Miss. **AMRUTA .A. BUBANALE**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.

Prof. B.S.Kamate
Guide

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

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



ANALYSIS OF FINANCIAL STATEMENT AT THE
With Special Reference to
The Shedbal Urban Co-Op. Bank Ltd, Shedbal.



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

Course code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

Submitted By:
Miss. Arati .A. Hemagire.
Register Number: MC151803

Internal Guide:
Prof. Miss. B. S. Kamate.

External Guide:
J. K. Banajwad
(Accountant)



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Department of PG Studies in Commerce, NIPANI - 591237

KLE Society's
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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 Analysis of Financial Statement" With Special Reference to The Shedbal Urban Co-Op. Bank Ltd, Shedbal. is submitted to Rani Channamma University, Belagavi by Miss. ARATI .A. HEMAGIRE, in partial fulfillment of the requirement for the award of degree of Master of Commerce, during the academic year 2016-2017.

Prof. Smt. B. S. Kamate

Guide

Prof. B.M Hiremath

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

Dr. M.B. Kothale

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



**IMPACT OF ADVERTISEMENT ON SALES OF NANDINI MILK AND
MILK PRODUCT IN NIPANI**



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

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

Academic Year 2016-17

Course Code - D 10

Submitted By:

MISS. BHARATI A KEMPATTI

Register Number: MC151804

Project Guide:

Prof. Smt. B S KAMATE



KLE SOCIETY'S

G. I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE

Department of PG 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 "IMPACT OF ADVERTISEMENT ON SALES OF NANDINI MILK AND MILK PRODUCT IN NIPANI" is submitted to Rani Channamma University, Belagavi by MISS.BHARATI A KEMPATTI, in partial fulfillment of the requirement for the award of degree of Master of Commerce, during the academic year 2016-2017.

Prof. Miss. B.S. Kamate

Guide

Prof. B.M Hiremath

Co-ordinator

Co-ordinator

P. C. (M. Com.)

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

Dr. M.B. Kothale

Principal

PRINCIPAL

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



**COST VOLUME PROFIT ANALYSIS A CASE STUDY OF
HALASIDHANATH SAHAKARI SAKHAR KARKHANA
LTD, NIPANI**



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

Course Code - D 10

**IN PARTIAL FULFIMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS. KALAVATI. R. PATIL.
Register Number: MC151805**

**Project Guide:
Prof. L. R. MALI**

**External Guide:
MR. A.A.SHIRAGAVE**



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NIPANI

DEPARTMENT OF POST GRADUATE STUDIES IN COMMERCE
(Affiliated to Rani Channamma University, Belagavi)



CERTIFICATE

This is to certify that the project report entitled “Cost volume profit analysis a case study of Halasidhanath Sahakari Sakhar Karkhana Ltd, Nipani” is submitted to Rani Channamma University, Belagavi by Miss. KALAVATI .R. PATIL, in partial fulfillment of the requirement for the award of degree of Master of Commerce, during the academic year 2016-2017.



Prof. L.R.Mali

Guide



Prof. B.M Hiremath

Co-ordinator
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KLE's G. I. B. College, Nipani.



Dr. M.B. Kothale

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



**JOB SATISFACTION AMONG EMPLOYEES IN
SADASHIVRAO MANDLIK KAGAL TALUKA SAHAKARI
SAKHAR KARKHANA LTD, SADASHIVNAGAR,
HAMIDWADA-KAULAGE.**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS. KISHORI KHOT
Register Number: MC151806**

**Project Guide:
Prof. L.R.MALI**



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

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NIPANI

DEPARTMENT OF POST GRADUATE STUDIES IN COMMERCE
(Affiliated to Rani Channamma University, Belagavi)



CERTIFICATE

This is to certify that the project report entitled “**JOB SATISFACTION AMONG EMPLOYEES IN SADASHIVRAO MANDLIK KAGAL TALUKA SAHAKARI SAKHARE KARKHANA LTD, SADASHIVNAGAR, HAMIDWADA-KAULAGE**” is submitted to Rani Channamma University, Belagavi by **MISS. KISHORI KHOT**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. L.R.Mali


Prof. B.M Hiremath


Dr. M.B. Kothale

Guide



Co-ordinator
Co-ordinator
P. G. [M.Com.]
KLE'S G. I. B. College, Nipani.

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

**A STUDY ON CAPITAL BUDGETING AT SHIVSHAKTI
SUGARS LTD SOUNDATTI**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS. MAHAKALI .M. NISHANDAR
Register Number: MC151807**

**Internal Guide:
Dr. C.V. Koppad**

**External Guide:
Mr. B.S. Mudhole
DIRECTOR**



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

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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 Capital Budgeting At Shivshakti Sugars Ltd Soundatti**” is submitted to Rani Channamma University, Belagavi by Miss. **MAHAKALI .M. NISHANDAR**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Dr. C.V. Koppad

Guide


Prof. B.M Hiremath

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


Dr. M.B. Kothale

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



**A STUDY ON FINANCIAL PERFORMANCE ANALYSIS,
WITH SPECIAL REFERENCE TO SHREE
DOODHAGANGA KRISHAN SAHAKARI SAKKARE
KARAKAHNE NIYAMIT, CHIKODI.**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MR. MAYAGOUDA .K. PATIL
Register Number: MC151808**

**Project Guide:
Prof. Mr. L .R. MALI**

**External guide:
Mr. R .G. Hakare**



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

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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 Financial Performance Analysis, With Special Reference To Shree Doodhaganga Krishan Sahakari Sakkare Karakhane Niyamit, Chikodi” is submitted to Rani Channamma University, Belagavi by Mr. MAYAGOUDA .K. PATIL, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.



Prof. Mr. L.R.MALI



Prof. B.M Hiremath



Dr. M.B. Kothale

Guide



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

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

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



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS. Mayuri.M.Anchi
Register Number: MC151809**

**Project Guide:
Prof.L.R.Mali**



**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 **“EFFECT OF ADVERTISEMENT MESSAGE TOWARDS CONSUMER”** is submitted to Rani Channamma University, Belagavi by **Miss. Mayuri M. Anchi**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. L.R.Mali


Prof. B.M Hiremath


Dr.M.B.Kothale

Guide

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

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



**RISK MANAGEMENT AND INVESTMENT TECHNIQUES
AT TRADE NET WEALTH MANAGERS PVT LTD,
KOLHAPUR**



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

Course Code - D 10

**IN PARTIAL FULFIMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MR. NIKET SHENDURE
Register Number: MC151810**

**Internal Guide:
Prof. Smt. P R KAMATE**

**External Guide:
Mr. S.S. More**



**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 “**Risk Management and Investment Techniques At Trade Net Wealth Managers Pvt Ltd, Kolhapur**” is submitted to Rani Channamma University, Belagavi by Mr. NIKET SHENDURE, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. Smt. P.R. Kamate

Guide




Prof. B.M Hiremath

Co-ordinator
Co-ordinator
P. G. (M.Com.)
KLE's G. I. S. College, Nipani.


Dr. M.B. Kothale

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

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



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS. POOJA.N.MONE
Register Number: MC151811**

**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
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NIPANI

DEPARTMENT OF POST GRADUATE STUDIES IN COMMERCE
(Affiliated to Rani Channamma University, Belagavi)



CERTIFICATE

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. Pooja.N.Mone, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. Smt.P.R.Kamte

Guide


Prof. B.M Hiremath

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


Dr.M.B.Kothale

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



**A STUDY ON EMPLOYEES ATTITUDE TOWARDS
STRESS MANAGEMENT IN HLL LIFE CARE LIMITED
KANAGALA**



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

Course Code - D 10

**IN PARTIAL FULFILMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS.POORNIMA .K. THANE
Register Number: MC151812**

**Project Guide:
Prof. Smt. 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

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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 EMPLOYEES ATTITUDE TOWARDS STRESS MANAGEMENT IN HLL LIFE CARE LIMITED KANAGALA” is submitted to Rani Channamma University, Belagavi by Miss POORNIMA.K.THANE, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.

Prof. Smt. P.R.Kamate

Prof. B.M Hiremath

Dr. M.B. Kothale

Guide



Co-ordinator
Co-ordinator
P. C. [M.Com.]

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

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PRINCIPAL

G.I. Bagewadi Arts, Science &
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**EVALUATION OF REWARDS AND MOTIVATION
TOWARDS EMPLOYEES AT M/S SAURAV CEMENT PIPE
INDUSTRY, PATTANKUDI**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS. PRACHI .P. PATIL
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CERTIFICATE

This is to certify that the project report entitled “**EVALUATION OF REWARDS AND MOTIVATION TOWARDS EMPLOYEES AT M/S SAURAV CEMENT PIPE INDUSTRY, PATTANKUDI**” is submitted to Rani Channamma University, Belagavi by Miss. **PRACHI .P. PATIL**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Dr. B.S. Kamble

Guide


Prof. B.M Hiremath

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Dr. M.B. Kothale

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**A STUDY OF FUND FLOW STATEMENT AT SHRI.
MAHATMA BASAVESHWAR CREDIT SOUHARD
SAHAKARI NIYAMIT, NIPANI**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
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SHRI MAHATMA BASAVESHWAR CREDIT SOUHARD SAHAKARI NIYAMIT, NIPANI

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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 of Fund Flow Statement At Shri. Mahatma Basaveshwar Credit Souhard Sahakari Niyamit, Nipani” is submitted to Rani Channamma University, Belagavi by Miss. PRIYANKA .A. MURDANDE, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. Smt. S.A. Deshpande

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Prof. B.M Hiremath

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Dr. M.B. Kothale

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**CASH MANAGAMENT
SHRI HIRANYAKESHI SAHAKARI SAKKARE KARKHANE
NIYAMIT, SANKESHWAR**



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

Course Code - D 10

**IN PARTIAL FULFIMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
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Register Number: MC151815**

**Project Guide:
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(Affiliated to Rani Channamma University, Belagavi)



CERTIFICATE

This is to certify that the project report entitled "**cash management**" is submitted to Rani Channamma University, Belagavi by Miss. **PUNAM VARUTE**, partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. Laxman mali

Guide


Prof. B.M Hiremath

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**TECHNICAL ANALYSIS OF SELECTED EQUITY
SHARES AT RELIGARE SECURITIES LTD WITH
SPECIAL REFERENCE TO NIPANI TOWN**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

Submitted By:

**MR. RAHUL .V. SAVADI
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Internal Guide:

Prof. Smt. S.A. Deshpande

External Guide:

Mr. Deepak Patil

AUTHORIZED PERSON

RELIGARE SECURITIES LTD, NIPANI



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CERTIFICATE

This is to certify that the project report entitled "Technical Analysis Of Selected Equity Shares At Religare Securities Ltd With Special Reference To Nipani Town" is submitted to Rani Channamma University, Belagavi by Mr. RAHUL .V. SAVADI, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. Smt. S.A. Deshpande

Guide




Prof. B.M Hiremath

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Dr.M.B. Kothale

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**A STUDY ON CUSTOMER SATISFACTION TOWARDS
PATANJALI PRODUCTS AT VENUS TRADERS
SANKESHWAR**



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

Course Code - D 10

**IN PARTIAL FULFILMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
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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 Customer Satisfaction Towards Patanjali Products At Venus Traders Sankeshwar**” is submitted to Rani Channamma University, Belagavi by Miss. **RAJLAXMI .R. KUMBAR**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. Smt. S.A. Deshpande


Prof. B.M Hiremath


Dr. M.B. Kothale

Guide



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**RISK MANAGEMENT– DUDHAGANGA KRISHNA SAHAKARI
SAKKARE KARKHANE NIYAMIT, CHIKODI**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS. SANDHYA AWATE
Register Number: MC151819**

**Project Guide:
Prof. Miss. K. S. Powar**



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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 "**Risk Management**" is submitted to Rani Channamma University, Belagavi by Miss. SANDHYA AWATE, partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.



Prof. K. S. Powar



Prof. B.M Hiremath



Dr. M.B. Kothale

Guide

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



**A STUDY ON INVENTORY MANAGEMENT AT
VENKATESHWARA POWER PROJECT LTD, BEDKIHAL**



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

Course Code - D 10

**IN PARTIAL FULFIMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
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**Internal Guide:
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**External Guide:
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CERTIFICATE

This is to certify that the project report entitled “**A Study On Inventory Management At Venkateshwara Power Project Ltd, Bedkihal**” is submitted to Rani Channamma University, Belagavi by MISS. **SANJEEVINI .J. SWAMI**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.

Prof. K.S. Powar

Prof. B.M Hiremath

Dr. M.B. Kothale

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**A STUDY ON FINANCIAL STATEMENT ANALYSIS AT
HIRANYAKESHI SAKKARE KARKHANE NIYAMIT,
SANKESHWAR**



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

Course Code - D 10

**IN PARTIAL FULFIMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
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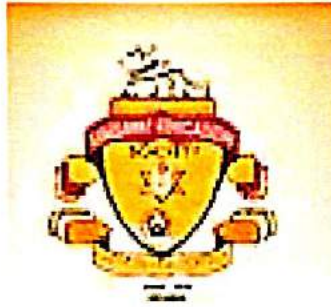
**External Guide:
Mr. M.S. Hanchinmani**



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CERTIFICATE

This is to certify that the project report entitled “**A study on financial statement analysis**” is submitted to Rani Channamma University, Belagavi by Miss. **SAVITRI .M. KUMBAR**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. K.S. Powar

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Prof. B.M Hiremath

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Dr. M.B. Kothale

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**FINANCIAL APPRAISAL OF CO-GENERATION
POWER
SHRI HIRANYAKESHI SAHAKARI SAKKARE
KARKHANE NIYAMIT, SANKESHWAR**



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

Course Code - D 10

**IN PARTIAL FULFIMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
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**Project Guide:
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CERTIFICATE

This is to certify that the project report entitled **“Financial appraisal of co-generation power”** is submitted to Rani Channamma University, Belagavi by Miss. **SHILPA SANKESHWARI**, partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.

Prof. Sagar Mirajkar

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Dr. M.B. Kothale

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**EFFECTS OF LABOUR ABSENTEEISM IN SADASHIVRAO
MANDLIK KAGAL TALUKA SAHAKARI SAKHAR
KARKHANA LTD., SADASHIVNAGAR, HAMIDWADA-
KAULAGE.**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
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**Project Guide:
Prof. S. P. MIRAJE**



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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 “**EFFECTS OF LABOUR ABSENTEEISM IN SADASHIVRAO MANDLIK KAGAL TALUKA SAHAKARI SAKHAR KARKHANA LTD, SADASHIVNAGAR, HAMIDWADA-KAULAGE**” Submitted to Rani Channamma University, Belagavi by **MISS. SHITAL BAGEWADI**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. S. P. MIRAJE


Prof. B.M. Hiremath


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**A STUDY ON FUND MANAGEMENT AT SHRI
SOMESHWAR CO-OP. CREDIT SOCIETY LTD; BHIRDI**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
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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 Fund Management At Shri. Someshwar Co-Op. Credit Society Ltd; Bhirdi " is submitted to Rani Channamma University, Belagavi by Miss. **SHRUTI .N. MIRJE**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.

Prof. S.P. Mirje

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Prof. B.M Hiremath

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Dr. M.B. Kothale

Principal
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**IMPACT OF EMPLOYEE TRAINING – HLL LIFECARE
LIMITED, KANAGALA**



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

Course Code - D-10

**IN PARTIAL FULFIMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
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Register Number: MC151825**

**Project Guide:
Prof. S.P.Miraje**



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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 "**IMPACT OF EMPLOYEE TRAINING**" is submitted to Rani Channamma University, Belagavi by Miss. **SHWETA S. CHOUGULE**, partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.

Prof. S.P. Miraje

Prof. B.M. Hiremath

Dr. M.B. Kothale

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PRINCIPAL
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**A STUDY ON CASH MANAGEMENT AT
HALASIDHANATH SAHAKARI SAKHAR KARKHANA
LIMITED, NIPANI**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
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Academic Year 2016-17**

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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 Cash Management At Halasidhanath Sahakari Sakhar Karkhana Limited, Nipani**” is submitted to Rani Channamma University, Belagavi by Miss. SHWETA .S. PATIL, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.



Prof. (Miss.) S.P. Sansuddi



Prof. B.M Hiremath



Dr. M.B. Kothale

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**A STUDY ON EMPLOYEES JOB SATISFACTION IN
VENKATESHWARA POWER PROJECT LTD BEDKIHAL**



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

Course Code - D 10

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

Academic Year 2016-17

Submitted By:

MISS.SMITA.S.DESAI

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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 EMPLOYEES JOB SATISFACTION IN VENKATESHWARA POWER PROJECT LTD BEDKIHAL**” is submitted to Rani Channamma University, Belagavi by Miss **SMITA.S.DESAI** , in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. Laxman.R.Mali


Prof. B.M Hiremath


Dr. M.B. Kothale

Guide



Co-ordinator
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KLE's G. I. B. College, Nipani.

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**CONSUMER'S PERCEPTION TOWARDS DIRECT
BENEFIT TRANSFER FOR LPG SCHEME**



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

Course Code - D10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
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**Project Guide:
Dr. C.V. Koppad**



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DEPARTMENT OF POST GRADUATE STUDIES IN COMMERCE
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CERTIFICATE

This is to certify that the project report entitled “**Consumer’s Perception Towards Direct Benefit Transfer for LPG Scheme**” is submitted to Rani Channamma University, Belagavi by Miss. **SWARANJALI .S. CHOUGALE**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Dr. C.V. Koppad

Guide


Prof. B.M Hiremath

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"EFFECT OF DEMONETIZATION ON NIPANI CITY"



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

Course Code - D 10

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

Academic Year 2016-17

**Submitted By:
MISS. TEJASWINI KHOT
Register Number: MC151829**

**Project Guide:
Dr. C.V. KOPPAD**



**KLE SOCIETY'S
G. I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG 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 “**Effect of demonetization on Nipani city**” is submitted to Rani Channamma University, Belagavi by Miss. **TEJASWINI KHOT**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Dr.C.V. Koppad

Guide


Prof. B.M Hiremath

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


Dr. M.B. Kothale

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



**LABOUR WELFARE PROVISION – HLL LIFE CARE LIMITED,
KANAGALA**



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

Course Code - D 10

**IN PARTIAL FULFIMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS. Vaishali V. Kulkarni
Register Number: MC151830**

**Project Guide:
Prof. Miss. S.P.Sansuddi**



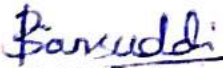
**KLE SOCIETY'S
G. I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG in Commerce, NIPANI - 591237**

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 "**LABOUR WELFARE PROVISION**" is submitted to Rani Channamma University, Belagavi by Miss. **VAISHALI V. KULKARNI**, partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.


Prof. S.P. Sansuddi

Guide


Prof. B.M. Hiremath

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


Dr. M.B. Kothale

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Commerce College, NIPANI.



**INVENTORY MANAGEMENT – DUDHAGANGA KRISHNA
SAHAKARI SAKKARE KARKHANE NIYAMIT, CHIKODI**



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

Course Code - D 10

**IN PARTIAL FULFILLMENT OF THE AWARD OF
MASTER OF COMMERCE
Academic Year 2016-17**

**Submitted By:
MISS.VIDYA KAMATE
Register Number: MC151831**

**Project Guide:
Prof. Miss. S.P.SANSUDDI**



**KLE SOCIETY'S
G. I BAGEWADI ARTS, SCIENCE AND COMMERCE COLLEGE
Department of PG 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 “**Inventory Management in Dudhaganga Krishna SahakariSakkare Karkhane Niyamit, chikodi**” is submitted to Rani Channamma University, Belagavi by Miss. **VIDYA KAMATE**, in partial fulfillment of the requirement for the award of degree of **Master of Commerce**, during the academic year 2016-2017.

Prof. Miss. S.P. Sansuddi

Prof. B.M. Hiremath

Dr. M.B. Kothale

Guide

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

Principal
PRINCIPAL
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Commerce College, NIPANI.



RANI CHANNAMMA  UNIVERSITY, BELAGAVI

Department of Mathematics

Syllabus

for

Master of Science in Mathematics

III & IV Semester

(with effect from 2014 – 15)



Mathematics
Choice based credit system (CBCS)
Course structure

S. No.	Paper & Title	Credit	No of Hrs/week Theory/Prctical	Duration of exam in Hrs Theory/Prctical	IA Marks Theory/Prctical	Marks at the Exams	Total Marks
III Semester							
3.1	Measure Theory and Integration	4	4	3 Hrs	20	80	100
3.2	Discrete Mathematical Structures	4	4	3 Hrs	20	80	100
3.3	Differentiable Geometry	4	4	3 Hrs	20	80	100
3.4	Numerical Analysis	4	4	3 Hrs	20	80	100
3.5	Algebraic Topology	4	4	3 Hrs	20	80	100
3.6	Open Elective Course – II a. Statistics & Quantitative Techniques b. Optimization Techniques	4	4	3 Hrs	20	80	100
IV Semester							
4.1	Functional Analysis	4	4	3 Hrs	20	80	100
4.2	Probability Theory	4	4	3 Hrs	20	80	100
4.3	Differential Manifolds	4	4	3 Hrs	20	80	100
4.4	Optional / Specialization I. Fluid Mechanics II. Number Theory and Cryptology III. Commutative Algebra IV. Mathematical Physics V. Galois Theory VI. Computational Complexity Theory	4	4	3 Hrs	20	80	100



4.5	Optional / Specialization I. Mathematical Finance II. Operations Research III. Graph Theory IV. Fourier Analysis V. Banach Algebra VI. Mathematical Modeling	4	4	3 Hrs	20	80	100
4.6	Project	4	The candidate shall submit a dissertation carrying 80 marks and appear for viva-voce carrying 20 marks				100
Total		96					2400



RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



**A PROJECT REPORT ON
"APPLICATIONS OF NUMBER THEORY"**

SUBMITTED BY

MISS AKSHATA C. MAMADAPUR
Reg. No: MT151201

MISS SHAILAJA D. SHINDE
Reg. No: MT151214

MISS SHRUTI T. PATIL
Reg. No.: MT151218
Course code - D120

**IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)
Academic Year 2016-17**

Under Guidance of

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

PROF. MISS SONALI K. PATIL
M. Sc.

SUBMITTED TO



**DEPARTMENT OF MATHEMATICS
KLE'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

'College with Potential for Excellence'
(RE-ACCREDITED AT 'A' LEVEL BY NAAC)



Certificate

This is to Certify that project carried out by MISS AKSHATA C. MAMADAPUR Reg No: MT151201, MISS: SHAILAJA D. SHINDE Reg No: MT151214, MISS: SHRUTI T. PATIL Reg No: MT151218 bonafide students 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 2016-17. 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.

Patil
17/6/2017
MISS S. K. PATIL
Guide

Shankrikopp
17/6/2017
Dr. M. M. Shankrikopp
Coordinator
Head
Department of Mathematics
K.L.E's G. I. B. College, Nipani.

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

Examiner Name and Sign

1. *Shailaja D. Shinde*
2. *Patil*



RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



**A PROJECT REPORT ON
"MATRIX REPRESENTATION OF GRAPHS"**

SUBMITTED BY

MISS ASHWINI B. KAMBALE

Reg. No: MT151205

MISS PRAJAKTA U. TAKALE

Reg. No: MT151212

MISS SHRUTI B. HEBBAL

Reg. No.: MT151217

COURSE CODE - D120

**IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)
Academic Year 2016-17**

Under Guidance of

DR.(SMT). M. M. SHANKRIKOPP

M.Sc., PhD

PROF. MISS VEENA P. HEGADE

M. Sc., B. Ed.

SUBMITTED TO



**DEPARTMENT OF MATHEMATICS
KLE'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

'College with Potential for Excellence'
(RE-ACCREDITED AT 'A' LEVEL BY NAAC)



Certificate

This is to Certify that project carried out by MISS ASHWINI B. KAMBALE Reg No: MT151205, MISS PRAJAKTA U. TAKALE Reg No: MT151212, MISS SHRUTI B. HEBBAL Reg No: MT151217 bonafide students 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 2016-17. 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.

V. P. Hegade / 17/6/17
MISS V. P. HEGADE
Guide

17/6/2017
Dr. M.M. SHANKRIKOPP
Coordinator
Head

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

Examiner Name and Sign

1.

2.



RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



A PROJECT REPORT ON
“FUZZY SETS, FUZZY LOGIC AND IT'S APPLICATIONS”

SUBMITTED BY

MISS GANGUBAI M. PIRAJI

Reg. No: MT151206

MISS KOMAL R. CHOUGULE

Reg. No: MT151207

MISS LAXMI M. GAJABAR

Reg. No.: MT151208

COURSE CODE – D120

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

Academic Year 2016-17

Under Guidance of

DR.(SMT). M. M. SHANKRIKOPP

M.Sc., Ph.D.

PROF. MISS. VEENA P. HEGADE

M. Sc., B. Ed.

SUBMITTED TO



DEPARTMENT OF MATHEMATICS

KLE'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

'College with Potential for Excellence'
(RE-ACCREDITED AT 'A' LEVEL BY NAAC)



Certificate

This is to Certify that project carried out by MISS GANGUBAI M. PIRAJI Reg No: MT151206, MISS KOMAL R. CHOUGULE Reg No: MT151207, MISS LAXMI M. GAJABAR Reg No: MT151208 bonafide students 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 2016-17. It is certified that all correction or 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.

V. P. Hegade 17/6/17
MISS VEENA P. HEGADE
Guide

Dr. M.M. Shankrikop 17/6/2017
Dr. M.M. SHANKRIKOP
Coordinator
Head

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

Examiner Name and Sign

1.

2.



RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



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

SUBMITTED BY

MISS ARCHANA M. SANKPAL
Reg. No: MT151203

MISS ASHALATA A KADAM
Reg. No: MT151204

course code - D120

IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)
Academic Year 2016-17

Under Guidance of

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

PROF. MR. JINENDRA N. MAGADUM
M. Sc.

SUBMITTED TO



DEPARTMENT OF MATHEMATICS

KLE'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

'College with Potential for Excellence'
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Certificate

This is to Certify that project carried out by MISS ARCHANA M. SANKPAL Reg No: MT151203, MISS ASHALATA A. KADAM Reg No: MT151204, bonafide students 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 2016-17. 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
Guide


17/6/2017
Dr. M.M. SHANKRIKOPP
Coordinator


Dr. M. B. KOTHALE
Principal

Examiner Name and Sign

- 
- 

RANI CHANNAMMA UNIVERSITY
BELAGAVI-590 014



A PROJECT REPORT ON
"LAPLACE TRANSFORM AND ITS APPLICATIONS"

SUBMITTED BY

MISS ANUPAMA S. MALAWADE
Reg. No: MT151202

MISS MAHALAXMI KANVI
Reg. No.: MT151210

MISS POOJA P. SAVANTRE
Reg. No: MT151211
Course code - D120

IN PARTIAL FULFILMENT OF
MASTERS OF SCIENCE (M.Sc. Mathematics)
Academic Year 2016-17

Under Guidance of

DR.(SMT). M. M. SHANKRIKOPP
M.Sc., Ph.D.

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

SUBMITTED TO



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

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


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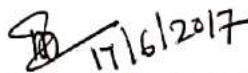


Certificate

This is to Certify that project carried out by MISS ANUPAMA S. MALAWADE Reg No: MT151202, MISS MAHALAXMI KANVI Reg No: MT151210, MISS POOJA P. SAVANTRE Reg No: MT151211 bonafide students 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 2016-17. 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.

 17/6/17

**Mr. S. A. Chougale
Guide**

 17/6/2017

**Dr. M.M. Shankrikopp
Coordinator**



**Dr. M. B. Kothale
Principal**

Examiner Name and Sign

1. 

2. 