

ESTD : 1987

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ಕೆ ಎಲ್ ಇ ಸಂಸ್ಥೆಯ

ಶ್ರೀ ಚನ್ನಗಿರಿಶ್ವರ ಪ್ರಾಸಾದಿಕ ಕಲಾ, ವಿಜ್ಞಾನ ಹಾಗೂ ದು.ದಾ. ಶಿರೋಲ ವಾಣಿಜ್ಯ ಮಹಾವಿದ್ಯಾಲಯ,



(ತಾ. ಮುಧೋಳ) ಮಹಾಲಿಂಗಪುರ - 587 312. (ಜಿ. ಬಾಗಲಕೋಟೆ)

(ನ್ಯಾಕನಿಂದ ಮರು ಮಾನ್ಯತೆ 'B++2.81' CGPA)

KLE Society's

SHRI CHANNAGIRISHWAR PRASADIK ARTS, SCIENCE AND D.D. SHIROL COMMERCE COLLEGE,

Tq : Mudhol

MAHALINGPUR - 587 312.

Dist : Bagalkot

(NAAC Re-accredited 'B++' 2.81 CGPA)

ಉಲ್ಲೇಖ ಸಂಖ್ಯೆ : ಡಿಸಿ./..... /.....

ದಿನಾಂಕ : 15-3-2022

2018

Program name	Name of the Course that include experiential learning through project work/field work/internship	Number of the student studied course on experiential learning through project work/field work/internship
B.sc - Zoology	Different Breeds of Dogs	23
B.sc - Botany	Field Visit Report about Rock Garden (Gotagodi - Hubballi)	23
B.sc - Zoology	Local Biodiversity	7



GRADE-1 PRINCIPAL
K.L.E Society's
S.C.P.Arts, Science & D.D.S Commerce College,
MAHALINGPUR-587312, Dist. Bagalkot.

From,
Department of Zoology

To,

The Principal
KLE's SCP Degree College,
Mahalingpur-587312

Subject: Regarding permission for Field visit

Respected Sir,

As mentioned above subject, we B.Sc II Sem Students along with teachers are going to field visit to Mudhol to study Different Breeds of Dogs on 18/09/2018. So kindly permit us to visit.

Below is the enclosed list of students & Lectures.

Thank you

Yours Faithfully

1. Miss C.M.Gemur
2. Miss A.S.Mangavate

C.M. Gemur
A.S. Mangavate



[Signature]
GRADE-1 PRINCIPAL
KLE Society's
S.C.P.Arts, Science & B.D.S Commerce College
MAHALINGPUR-587312, Dist. Dargalkot.

FACULTY

Sl. No	Faculty Name
1	Miss. C. M. Gennur
2	Miss. A. S. Magavate

STUDENT LIST

Sl.No	Name of Students
1	Ms. Aishwarya Uttur
2	Ms. Sumalata Kallur
3	Ms. Aayesha Kazi
4	Ms. Bhagyashri Hubballi
5	Ms. Bhuvaneshwari Hawaldar
6	Ms. Gangavva Davaleshwar
7	Ms. Sujata B patil
8	Ms. Iravva Mathad
9	Ms. Laxmi Karoshi
10	Ms. Mahananda Hosatti
11	Ms. Mallamma Patil
12	Ms. Mallikarjun Konnur
13	Ms. Manasi Patil
14	Mr. Muttappa Patil
15	Ms. Nandini Hugar
16	Ms. Pooja Siddappur
17	Ms. Priyanka Golabhavi
18	Ms. Raveena Karihole
19	Ms. Sayavva Chandappannavar
20	Ms. Shilpa Khot
21	Ms. Tulasi Deshanur
22	Mr. Vivekanand Horatti
23	Mr. Shivadev Athani





K.L.E Society's
S.C.P Arts, Science and DDS Commerce College
Mahalingpur- 587 312

(Accredited At B++ with 2.81 CGPA by NAAC)

PROJECT REPORT

On

DEFFERENT BREEDS OF DOGS

By

B.Sc II Semester Students

Guided By

Miss: A. S. Mangavate
Department of Zoology

Submitted to

Miss: C. M. Gennur
HOD Department of Zoology

18/09/2018



18/09/2018

Preface

Field visit is the part of study for zoology and practical interest of students. So we had conducted the field visit to Mudhol for study of different breeds of dogs. Field visit conducted for B.Sc. I Semester students during the year 2018-19.

The field visit always gives practical knowledge to the students. To know the different breeds of dogs in Mudhol. Students learnt thirty to thirty five different breeds of dogs, their behavior, feeding and they study about heart, kidney, liver and uterus of dogs. They got overall knowledge about different breeds of dogs. 24 Students are visited to Shwankendra Mudhol.

Our college has practicing special tradition to enrich the knowledge of the students. Principal has given an opportunity and granted permission to travel Mudhol. For that the department of zoology is very thankful for them. We are also thankful to Head of Shwankendra Dr. Mahesh Doddamani sir and their team. For giving permission and interaction with students.

Thanks to all...

HOD of Zoology

Miss: C.M. Gennur *C.M. Gennur.*

Incharger

Miss: A.S. Mangavate *A.S. Mangavate*



B.Sc II Semester Syllabus

ZOOLOGY (Optional) 2017-18 Onwards

Total Marks-80

Total Teaching-50hrs

Biology of Chordates

UNIT-I

Chordates: General characters and classification. 8 hrs

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

UNIT-II

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

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

UNIT-III

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

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



UNIT-IV

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

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

PRACTICALS

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




NOTE:

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

REFERENCE BOOKS

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


IGC Coordinator
K.E.Society's
S.C.P.Arts, Science & B.G.Commerce College
MAHALINOPUR-557342, Dist. Mysore



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GRADE-1 PRINCIPAL
K.E.Society's
S.C.P.Arts, Science & B.G.Commerce College
MAHALINOPUR-557342, Dist. Mysore

From,

Department of Botany

To,

The Principal
KLE's Degree College
Mahalingpur

Subject: Regarding permission for industrial visit

Respected Sir,

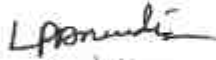
As mentioned above subject, we B.Sc III Sem Students with teachers are going to visit Rock Garden Gotagodi-Hubballi on 15/09/2018. So kindly give permission us to visit.

Below are the enclosed list of students & Lectures

Thank you

Yours Faithfully

1 Miss. L.P Angadi



2 Miss. S S Kodaganur



GRADE-1 PRINCIPAL

K.L.E. Society's

S.C.P. Arts, Science & B.D.S Commerce College
MAHALINGPUR-587312, Dist. Bagalkot

FACULTY

Sl. No	Faculty Name
1	Miss. L.P Angadi
2	Miss. S S Kodaganur

STUDENT LIST

Sl. No	Student's Name
1	Mr. Chetan Hosatti
2	Mr. Manjunath Saidapur
3	Mr .Maning Balagar
4	Ms. Neelavva Timmapur
5	Mr. Shivabasu Arabhavi
6	Ms. Shweta Murnal
7	Ms. Sumati Patil
8	Ms. Annapoorna Badiger
9	Mr. Arjun madiwal
10	Ms. Shambhavi Badiger
11	Ms. Laxmi Ghasti
12	Ms. Manjula Byali
13	Mr. Sadashiv Nesur
14	Ms. Amruta Patil
15	Ms. Kaveri Kotral
16	Ms. Shreya Matapati
17	Ms. Priyanaka Muddagol
18	Ms. Annapoorna sasalatti
19	Ms. Sujata Mudhol
20	Mr. Tauqeer Khalifa
21	Mr. Vittal Mugalakhod
22	Mr. Sachin Menasannavar
23	Mr. Sachin jayappannavar


IQAC Co-ordinator
K.L.E.Society's

S.C.P. Arts, Science & B.D.S Commerce College,
MAHALINGPUR-587312. Web: iqac.net.


GRADE-1-PRINCIPAL
K.L.E.Society's

S.C.P. Arts, Science & B.D.S Commerce College,
MAHALINGPUR-587312. Dist. Bagalkot.





KLE Society's
SCP Arts, Science & DDS Commerce College,
Mahalingapur – 587312
(ACCREDITED AT 'B' WITH 2.81 CGPA)

PROJECT REPORT
On
Field visit Report about Rock Garden
(Gotagodi – Huballi)

By
B.Sc III Semester Students.
Visited on 15 September 2018

Guided by
Laxmi Angadi
Department of Botany

SUBMITTED TO
The Principal Grade - I
KLE Society's SCP Arts, Science & DDS Commerce College,
Mahalingapur-587312



PREFACE

The Department of Botany has organized the field visit to Rock garden, Gotagodi, Hubballi district on 15 September 2018, to study the Farming and it's technology With BSc III semester students visited. Field visit is the part of syllabus for Botany students, as it gives practical knowledge to the student community.

The Field visit helped to bridge the gap between the academic and practically. It motivates the students to gain practical knowledge.

The department is thankful to the Grade – 1 Principal and IQAC Co-ordinator for providing an opportunity to do field visit.

Thank you

HOD of Botany

Miss: L. P. Angad

In charger

Miss: L. P. Angadi



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

1. BOTANY (optional)

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

Subject: BOTANY (optional)

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

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.

Suggested Readings:

- Smith G.M. 1971 vol.1 Algae and fungi. Tata McGraw HILL Publishing company New Delhi
Sharma O.P. 1992 Text book of thallophytes McGraw Hill Publication
Sharma P.D. 1991 The fungi Rastogi and Co Meerut
Dubey H.C. 1990 An Introduction to Fungi Vikas Publishing House Pvt Ltd Dehli Clifton, A 1958 Introduction to Bacteria. McGraw Hill and Co New York
Basu A.N. 1993 Essentials of plant viruses, vectors plant diseases New Age International New Dehli.
Chopra G.L. A text book of algae Rastogi and co Meerut
Rangaswami G 1998 Diseases of crop plants in India. Prentice Hall of India New Delhi.
Sunderrajan S 1997 College Botany Vol 1. S. Chand and Co Ltd New Dehli
Alexopoulos, 1992 An Introduction to Mycology. New Age International. New Dehli
Vashista B.R. 1978 Fungi. S. Chand and co. Ltd. New Delhi

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 |
| Q3: 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 |



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GRADE-1 PRINCIPAL
K.L.E. Society's
S.C.P. Arts, Science & D.D.S. Commerce College
MAHALINGPUR-587312, Dist. Bagalkot.

From,

Department of Zoology

To,
The Principal
KLE's Degree College
Mahalingpur

Subject: Regarding permission for field visit

Respected Sir,

As mentioned above subject, we B.Sc V Sem Students along with teachers are going to Field visit to study 'Local Biodiversity' on 01/09/2018. So kindly permit us to visit.

Below are the enclosed list of students & Lectures

Thank you

Yours Faithfully

1 C.M.Gennur

2 A.S.Mangavate

Gennur
A.S.Mangavate



[Signature]
GRADE-1 PRINCIPAL
K.L.E. Society's
S.C.P. Arts, Science & B.D.S Commerce College
MAHALINGPUR-567312. Dist. Bagalkot

FACULTY

SI. No	Faculty Name
1	Miss. C. M. Gennur
2	Miss. A. S. Magavate

STUDENT LIST

SI. No	Student Name
1	Mr. Siddappa Raval
2	Mr. Bhirappa Pujeri
3	Ms. Divya Bhooti
4	Ms. Aishwarya Kotrashetti
5	Ms. Preeti Ganachari
6	Ms. Roopa Itnal
7	Ms. Kalpana Koligudda





K.L.E Society's
S.C.P Arts, Science and DDS Commerce College
Mahalingpur- 587 312

(Accredited At B++ with 2.81 CGPA by NAAC)

PROJECT REPORT

On

LOCAL BIODIVERSITY

By

B.Sc V Semester Students

Guided By

Miss. C. M. Gennur

Miss. A. S. Mangavate

Department of Zoology

Submitted to

Miss. C. M. Gennur

HOD Department of Zoology

01/09/2018



Preface

Field visit is the part of study for zoology and practical interest of students. So we had conducted the field visit to local biodiversity at Dubdhal and Gokak. Field visit conducted for B.Sc: VI Semester students during the year 2018-19.

The field visit always gives practical knowledge to the students. To know the different species of local biodiversity birds and animals. 7 Students are visited to Dubdhal and Gokak.

Our college has practicing special tradition to enrich the knowledge of the students. Principal has given an opportunity and granted permission to travel Dubdhal and Gokak. For that the department of zoology is very thankful for them.

Thanks to all....

HOD of Zoology

Miss: C.M. Gennur

C.M. Gennur

Incharge

Miss : C.M.Gennur

C.M. Gennur

Miss: A.S.Mangavate

A.S. Mangavate



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, Amensalism, Parasitism, Predation

2hrs

Competition, Parasitism.

Habitats

4hrs

Freshwater habitat — Lotic and Lentic systems

Zonation of Sea, Marine Biota, Estuarine 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



Suggestions for Practical Examination

SEM — V.5.]

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	10* 02	=
		= 20 marks		
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	=

[Signature]
IQAC Co-ordinator
 K.L.E.Society's
 S.C.P. Arts, Science & D.B. Commerce College
 MAHALINGPUR-587312 Dist. Bagalkot.



[Signature]
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