

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 )

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ದಿನಾಂಕ : 15/03/2022

2017

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	Tiger and Lion Safari Tyavarekoppa and sakkarebailu Elephant Camp, Shimoga	7



**GRADE-1 PRINCIPAL**

K.L.E.Society's

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

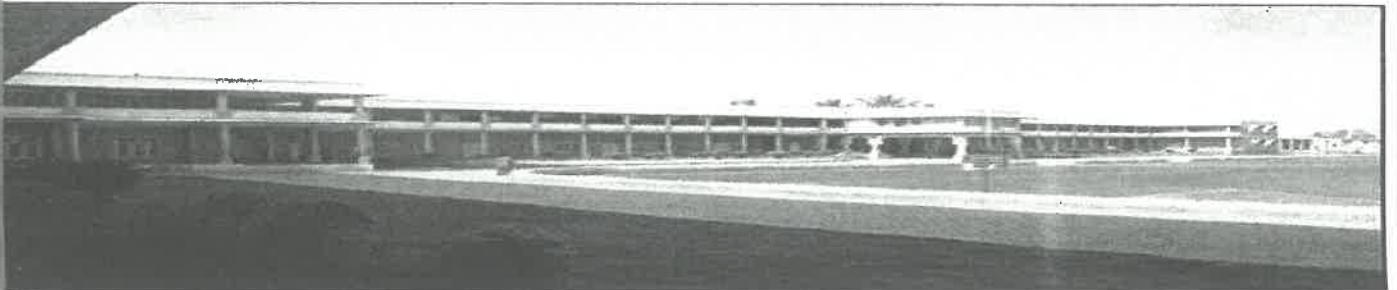
**KLE Society's  
SCP Arts, Science & DDS Commerce College,  
MAHALINGAPUR – 587312  
(ACCREDITED AT 'B<sup>++</sup>' WITH 2.81 CGPA)**



**PROJECT REPORT  
ON  
Tiger and Lion Safari Tyavarekoppa & Sakrebailu  
Elephant Camp, Shimoga  
By B.Sc II Semester Students**

**On  
07/05/2017  
Guided by  
Shri. M.B. Nimbikai  
Department of Zoology**

**SUBMITTED TO  
THE PRINCIPAL GRADE-1  
KLE's SCP Arts, Science & DDS Commerce College,  
Mahalingapur-587312**



07/05/2017

## **PREFACE**

Department of Zoology KLE's SCP Art's, Science & DDS Commerce College, Mahalingpur conducted field visit for B.Sc. II sem students to give idea about the diversity of the animals. When a student's of Science visit such field they will get information about different animal habitats and endangered species in the environment. So the department of Science organized a field visit to Tiger & Lion Safari and Sakrebailu Elephant Camp, Shimoga. Hence, the II semester students of this year (2016-2017) have participated in the field visit and come out with the nobel idea of diversity of animals.



Mr. Manjunath Nimbikai  
Department of Zoology

From,

Department of Zoology

To,

The Principal

KLE's Degree College

Mahalingpur

Subject: Regarding permission for industrial visit

Respected Sir,

As mentioned above subject, we B.Sc II Sem Students with teachers are going to visit Tiger and Lion Safari Tyavarekoppa & Sakarebailu Elephant Camp, Shimoga on 07/05/2017. So please permit us to visit.

Below are the enclosed list of students & Lectures

Thank you

Faithfully

Faculty

1. Shri. M.B. Nimbikai - 

Yours

**GRADE-1 PRINCIPAL**

K.L.E. Society's

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



## Student List

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





## 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 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 & Rhacophorous.
  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: 02  
Heart and Brain in Fishes, Amphibians, Reptiles, Aves and Mammals
  8. Explanation & Demonstration in Bony fish/Shark. 04
    - a). External characters
    - b). Digestive system
    - c). Reproductive system
    - d). Mounting of Brain





### 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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### REFERENCE BOOKS

1. Modern Text Book of Zoology Vertebrate-R.L.Kotpal.
2. Chordata – Dhama & Dhama.
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.



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