



**K.L.E Society's  
Basavaprabhu Kore Arts, Science and Commerce College,  
Chikodi (Karnataka, India)**

**Department of Zoology**

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## **SHORT TERM COURSE (2018 – 19)**

### **ENVIRONMENT:**

**Issues, management, environmental impact assessment,  
green practices, rainwater harvesting and waste  
management**

### **COURSE OBJECTIVES**

- ✓ Deals with introduction to environment
- ✓ To understand the issues and challenges faced due environment pollution
- ✓ Helps to know the impact of mining, deforestation, industrial effluents and hydroelectric projects
- ✓ Focus on public participation to save environment through popular movements
- ✓ To study EIA - Environment Impact Assessment



**K.L.E. Society's  
Basavaprabhu Kore Arts, Science and Commerce College, Chikodi – 591 201**

(Reaccredited by NAAC at 'A' grade with 3.26 CGPA in 3<sup>rd</sup> Cycle)

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**OBJECTIVES OF THE DEPARTMENT OF ZOOLOGY**  
(Why students need to study the subject Zoology at UG level)

**The following are the objectives of the department**

1. To motivate the students to learn several disciplines of Zoology in order to enhance their understanding of the world in which we all live
2. To make the students to increase their love towards wildlife and the habitats in which they live
3. To focus of young minds towards animals, animals life and insight into how 'life' works
4. We wish to make the students to travel into any ecosystem to study the challenging theoretical part of the subject. Thus apart from lecture method of teaching, students will participate in 'experiential learning'
5. Study of animals along with their behaviour makes the students to critically think which species needs to be conserved for save our 'nature' from destruction. Thus students will become budding conservationists and begin to think locally and act globally
6. To develop confidence and to achieve whatever the students desire. Once the students involve in the study of animal community and their interactions with the environment, students will begin to enjoy the beauty and complexity of our beautiful 'world'. This can happen with the field visits to any one 'hotspots of the world' Ex: Western Ghats.
7. With increasing importance to the traditional optional subject – Zoology, it provide an exposure to the following varied branches:

***Classical branches:*** Cytology, histology, morphology, anatomy, physiology, embryology, taxonomy, genetics, evolution, paleontology etc

***Interdisciplinary branches:*** Biophysics, Biochemistry and Biostatistics

**Allied branches:** Ethology, herpetology, ichthyology, haematology, helminthology, zoogeography, Parasitology, protozoology, microbiology, malacology, mammology, ornithology, virology etc

**Specialized branches:** Biotechnology, bio-informatics and genetic engineering

**Applied branches:** Agriculture, silviculture, parasitology, apiculture, sericulture, poultry, fishery science, food technology, entomology, pathology etc

8. Our students will be trained to understand the “real life” so that they can better educate the society at large through awareness activities. Thus our youths can participate in conservation of the existing biodiversity surrounding our villages. Based on the above objectives, all our academic activities of the Department are planned well in advance and executed throughout the academic year

#### **The objectives are set because:**

1. The students have studied the basic concepts of the subject Zoology up to 10+2 standards and now at UG level, they will study the concepts in detail
2. With scope for practicals of four hours per week up to fourth semesters, eight hours per week at fifth and sixth semesters, they will enrich their subject knowledge. For example, in theory part, they learn the embryonic stages of chick in developmental biology (embryology). During practical hours, they handle the developing chick egg, mount it on the slide and identify the age of the developing embryo. Thus students will start developing their interest
3. Subject zoology will help in ‘competency building’ among the students. For instance, every exercise is supported by the field trip / visit / study tour. Students in groups will visit the silk farms, interact with the farmers involved in silkworm rearing, look at the different instars, and understand the cocoon formation and significance of mountages. Thrilled by the crop harvesting by the farmer, it will motivate the students to become successful entrepreneurs. Because the farmer along with routine farming activities, will be rearing silkworms for subsidiary income
4. 80 to 90 percent of our students hail from the *surrounding villages*. They know little about the importance of zoology at the *global level*. Our rural students are well versed with landscapes and the geo-morphological aspects. Once they begin to understand the significance of zoology, they will be well equipped compared to urban counterparts and thus suit very well in the competitive world market of ‘jobs’
5. Students in batches make field visits. They begin survey of different species of animals. To carry out survey work, they will be trained during practical hours in the laboratory. Thus with the set of objectives, students will take part in mini-research works. This will help our students to become budding scientists in the near future with scientific bent of mind.