ZOOLOGY DEPARTMENT

Programme Outcome

After completing and graduating with a degree in Zoology, the students have a wide scope in different fields. Apart from persuing for higher studies (master in the subject with specialization in different branches in Zoology), the students can also opt from a variety of related branches of science:

- ✓ Related paramedical fields such as health sciences.
- ✓ Agriculcural sciences and Master in Forestry
- ✓ Master in Food technology and Processing
- ✓ Wildlife officers
- ✓ Marine Biologist
- ✓ Professional field such as Poultry, Sericulture, apiculture, Pisciculture, dairy etc.,

Course Outcome:

Course Name	Course Outcomes
1A & 1B Systematics, Animal Diversity and Evolution	Both these theory and practical papers touch upon sytematics, animal diversity and evolution. The Course outcome (CO) is that the students would have understood the concept of organic evolution that has led to animal diversity and adaptation. With this background they would understand the usefulness of systematics in the identification, nomenclature and classification of animal diversity.
2A & 2B Cell Biology and Genetics	Both these theory and practical papers touch upon cell biology and genetics. The CO is that the students would have a deeper glimpse into the structure and functions of a living cell and how genetics plays an important role in organic evolution, adaptation and inheritance of various traits including genetic disorders.
3A & 3B Animal Physiology, Endocrinology and Biochemistry	Both these theory and practical papers touch upon animal physiology, endocrinology and biochemistry. The CO is that the students would have learned the structures and functions of various organs and their organized systems to help a living organism thrive in its environment. The students are expected to have gained considerable knowledge about the role of various chemicals and hormones in the biochemistry that controls the living systems of an organism.
4A & 4B	Both these theory and practical papers touch upon developmental

Developmental Biology, Ecology and Economic Zoology	biology, ecology and economic zoology. The course outcome (CO) is that the students would have understood the living process of reproduction and development for the continuity of various species on this planet. These papers also help students in understanding ecology as an essential subject in today's world where harsh consequences like climate change and role of genetically modified organisms cannot be ignored. Economic zoology should have aroused the students to ponder upon the importance of various useful and destructive organisms from honeybees to cattle, and viruses, mosquitoes to poisonous snakes!
5A & 5B Functional Anatomy, Zoogeography and Adaptations	Both these theory and practical papers touch upon functional anatomy, zoogeography and adaptations. The Course outcome (CO) is that the students would have further gained more insights into the functional anatomy of various groups of animals – both invertebrate and vertebrate – in relation to their modes of living. They are expected to understand (i) the spatial distribution of various groups of animals in different landmasses across the globe, and (ii) the various adaptations necessary to help these animals survive and thrive in various niches of all sorts of habitats – aquatic, desert, terrestrial down to the deepest sea floor.
6A & 6B Cell and Molecular Biology and Genetics	Both these theory and practical papers touch deeper upon cellular, molecular biology and genetics in addition to what the students had learned in Papers 2A and 2B during the 2nd semester. The Course outcome (CO) is that the students would have understood the genome organization, including various types of genes and genetic disorders. These papers cover the concept of immunity as well as the principles and applications of certain useful biological techniques.
7A & 7B Biochemistry Animal Physiology and Endocrinology	Both these theory and practical papers are further extension to biochemistry, animal physiology and endocrinology in addition to what the students had already learned in Papers 3A and 3B during the 3rd semester.
8A & 8B Developmental Biology, Ecology and Environmental Biology and Biotechnology	Both these theory and practical papers touch upon developmental biology, environmental biology and biotechnology. These papers further cover further extension to what the students had already learned in papers 4A and 4B during their 4th semester. The Course outcome (CO) is that the students would have further improved upon their theoretical understanding on these topics and practical skill too. To top it all an evolving biotechnology has been added to keep the students updated in this new useful field of research and application. Ethical issues and biosafety regulations are highly appropriate additions in theory paper whereas field trip study in the last practical paper.