DEPARTMENT OF ZOOLOGY

Upon successful completion of this course, students will be capable of:

1. **Understanding Animal Diversity**: Recognizing and categorizing major animal groups, and comprehending their evolutionary links, physical traits, and ecological functions across different ecosystems.
2. **Explaining Biological Processes**: Outlining essential biological systems and processes in animals, such as reproduction, development, physiology, and behavior, and describing how these processes differ among various species.
3. **Conducting Laboratory Techniques**: Exhibiting competence in fundamental laboratory procedures for zoological studies, including preparing specimens, using microscopy, and collecting data, while ensuring precision and reliability.
4. **Interpreting Ecological Interactions**: Evaluating and understanding the interactions between animals and their surroundings, such as predation, competition, symbiosis, and habitat preferences, and analyzing their effects on species survival and ecosystem balance.
5. **Applying Research Methods**: Utilizing scientific research techniques to explore zoological questions, formulating hypotheses, designing experiments, gathering and analyzing data, and making evidence-based conclusions.
6. **Communicating Scientific Information**: Clearly conveying scientific findings through written reports, presentations, and discussions, demonstrating clarity, precision, and adherence to scientific standards.
7. **Engaging in Ethical Practices**: Identifying and upholding ethical considerations in animal studies and environmental research, including concerns related to conservation, animal welfare, and responsible research practices