

Course Code: ZOO 312
Number of Credits: 3
Effective from AY: 2020 -21

Course Title: Laboratory course on Field Biology

Prerequisite for the Course:	Knowledge on Fishery biology and its application or Environmental Physiology / Neuro-physiology and Stem cell biology or Biodiversity along with Wild life management and Herpetology.	
Objectives:	Laboratory training based on skilled based courses on Fish biology, Physiology and Biodiversity.	
Content	<p>Module 1:</p> <ol style="list-style-type: none"> 1. Study of Bird Census techniques in field-Transect, point count and call count methods. 2. Ornithological statistical analysis of field identified birds based on their colour, size, flight, calls and nest building. 3. Comparative study of avian fauna with respect to habitat variation (Plateau, Forest and Wetland) 4. Acoustic analysis of Bird calls and songs. 5. Study of flight muscles of Chicken used in any study area. 6. The identification of the amphibian and reptile families through basic external anatomy 7. Identification through scale count <p>Module 2:</p> <ol style="list-style-type: none"> 1. Learning handling techniques of Amphibians and Reptiles 2. Beta diversity of herpetofauna in the Goa University campus 3. Mammal distribution of Goa (i) Primates: Rhesus macaque (ii) Carnivores: Tiger, Panther, Sloth bear (iii) Ungulates: Sambar, Chital, Wild boar. 4. Horn/ Antler identification. 5. Call Identification of common birds – any five birds 6. Pugmark analysis and Camera trap methods. 7. Animal Scat, pellet, dung, droppings analysis (Indirect evidences) 8. Case study of Man-Animal conflict and Ethnozoology. Visit to Zoo/Wildlife Sanctuary/National Park/Turtle nesting site <p>Module 3:</p> <p>Every student must go for the Internship programme for 1 month. DC will select the Institution / Industry with in Goa for the Internship programme at Biodiversity Board, Forest Department.</p>	12 x 2 hrs