

Name of the Programme: M. Sc. Zoology

Course Code: ZOO-505

Title of the Course: Field work -I

Number of Credits: 01

Effective from AY: 2023-24

Pre-requisites for the Course:	Basic knowledge of Zoology	
Course Objectives:	<ol style="list-style-type: none">1. To explore/ observe/ collect specimens (subject to permissions from relevant authorities) and prepare an inventory of the faunal diversity of the selected area using systematics.2. To enable the learner to examine and implement different practical field methodologies.3. To motivate the learner to experience real biology in a novel learning environment, and develop a sense of appreciation for the environment.4. To provide opportunities for independent research experience.	
Content:	Field work faunistic survey around 1 km radius of his/ her residence during dawn every weekend for at least 2 months (8 weeks) using Transect or Quadrat method of two different fauna. One/ two-day visit to sanctuary within Goa*. * In unavoidable circumstances overnight field work will be replaced by extending the time period (from 8 weeks to 10 weeks of weekend faunistic survey).	15 x 2 lab hours
Pedagogy:	Field orientation/ field workshop/ tutorials/self-study/videos/presentations/ mini projects/ Group activities	
References/ Readings:	<ol style="list-style-type: none">1. D. Apte, Sea shells of India: an illustrated guide to common gastropods. New York: Oxford University Press, 2014.2. R. Grimmett, C. Inskipp, and T. Inskipp, Birds of the Indian Subcontinent, Helm field guides, 20113. P. Smetacek, A Naturalist's Guide to the Butterflies of India. John Beaufoy Publishing Ltd, 2017.4. I. Das, and A. Das, A Naturalist's Guide to the Reptiles of India. John Beaufoy Publishing Ltd, 2017.5. R. Whitaker, A. Captain. Snakes of India: The Field Guide, Draco Books, 2004.6. P. Rangnekar, A Photographic Guide to Butterflies of Goa, Broadway Publishing House, 2007	

	<ol style="list-style-type: none"> 7. A. Narendra, M. Sunil Kumar, On a trail with ants – A handbook of the ants of peninsular India, 2006. 8. J.C. Daniel, The Book of Indian Reptiles and Amphibians, Oxford University Press, 2002. 9. I. Kehimkar, The Book of Indian Butterflies, Bombay Natural History Society, Mumbai (India), Oxford University Press, Oxford (United Kingdom), 2008. 10. H. Bharti, B. Guénard, M. Bharti, E.P. Economo, An updated checklist of the ants of India with their specific distributions in Indian states (Hymenoptera, Formicidae). ZooKeys 551: 1–83. doi: 10.3897/zookeys.551.6767, 2016.
Course Outcomes:	<p>The learner will</p> <ol style="list-style-type: none"> 1. Identify fauna using taxonomic keys 2. Develop skills on species identification 3. Construct scientific reports on the field work conducted 4. Present the data of the field study in a scientific manner

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