

Name of the Programme: M. Sc. Zoology

Course Code: ZOO-611

Title of the Course: Mammalogy (Practical)

Number of Credits: 01

Effective from AY: 2023-24

Pre-requisites for the Course:	Basic knowledge on mammals and their identification at taxonomic level and the systematics Parallel enrollment for ZOO-611 Mammalogy (Theory)	
Course Objectives:	<ol style="list-style-type: none">1. To develop major concepts in Mammalogy, including evolution, systematics, and biogeography.2. To review the ecological perspective and adaptation ecology.3. To provide knowledge on field techniques to identify and study mammals.4. To comment on keystone species and mammalian conservation	
Content:	Study of epidermal derivatives of mammals. Identification of hair of different mammals based on cuticular and medullary patterns. Comparative morphology of dentition. Comparative morphology of skull. Anatomy of rat (preserved specimen). Mapping distribution of primates, carnivores and ungulates in the given area. Field visit to identify mammals using direct/ indirect methods.	15 x 2 hours
Pedagogy:	Practical/Assignments/Group discussion/Presentations/ Field visit/project/self-study/Lecture/Tutorials/Assignments	
References/ Readings:	<ol style="list-style-type: none">11. T. Clutton-Brock, Structure and function in mammalian societies. 364(1533), 3229–3242. Philosophical transactions of the Royal Society of London. Series B, Biological sciences, 2009. https://doi.org/10.1098/rstb.2009.0120 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2781877/12. A. F. George, F. M. Joseph, C D Lee, H. V. Stephen, Mammalogy - Adaptation, Diversity, Ecology. Johns Hopkins University Press, 2007.13. A. F. George, Mammalogy - Adaptation, Diversity, Ecology. Johns Hopkins University Press. 202014. T.A. Vaughan, J.M. Ryan, N. J. Czaplewski Mammalogy, USA, Jones and Barlett publisher, 201115. Mammalian reproduction: an ecological perspective, 1985. https://pubmed.ncbi.nlm.nih.gov/3882162/ -16. Dieter Lukas, Tim Clutton-Brock, <u>Cooperative breeding and monogamy</u>	

	<u>in mammalian societies</u> . Royal society publishing. 2012.
Course Outcomes:	<p>The learner will</p> <ol style="list-style-type: none"> 1. Identify mammals using direct and indirect methods. 2. Explain various aspects of mammalogy such as evolution, systematics, and biogeography. 3. Reflect on adaptations and ecology. 4. Review keystone species and mammalian conservation.