

Name of the Programme: M. Sc. Zoology

Course Code: ZOO-607

Title of the Course: Herpetology (Practical)

Number of Credits: 01

Effective from AY: 2023-24

Pre-requisites for the Course:	Basic knowledge on herpetofauna its identification at taxonomic level and the systematics Parallel enrollment for ZOO-607 Herpetology (Theory)	
Course Objectives:	1. To appraise the diversity and biology of reptiles and amphibians 2. To know the distinguishing characters of representative herpetofauna 3. To learn the handling techniques of herpetofauna	
Content:	The identification of the amphibian families through basic external anatomy The identification of the reptile families through basic external anatomy Identification of reptiles through scale count Learning handling techniques of Amphibians and Reptiles Beta diversity of herpetofauna in the Goa University campus Identification of venomous and non-venomous snakes	15 x 2 hours
Pedagogy:	Practical/Tutorials/Videos/Assignments/Group discussion/Self-study/Presentations	
References/ Readings:	1. K.R. Porter, Herpetology. Philadelphia: W. B. Saunders Co., 1972. 2. K. Adler, ed., Contributions to the History of Herpetology. Society for the Study of Amphibians and Reptiles, 2007. 3. D.R. Khanna, and P.R. Yadav, Biology of Reptiles. India: Discovery Publishing Pvt. Ltd, 2004. 4. H.S. Bhamrah, and Kavita Juneja, An Introduction to Reptiles. Anmol Publications Pvt. Ltd, 2002. 5. T.S.N. Murthy, The Reptile Fauna of India. B.R. Publishing Corporation, 2010. 6. T.S.N. Murthy, A Pocket Book on Indian Reptiles Crocodiles, Testudines, Lizards and Snakes. Nature Books India, 2009. 7. J. C. Daniel, The book of Indian Reptiles and Amphibians (BNHS). Oxford, 2002. 8. R. Whitaker, and A. Captain, Snakes of India, The Field Guide. Draco Books, 2008. 9. M.A. Smith, The Fauna of British India, Ceylon and Burma, Reptilia and Amphibia, VOL III – Serpentes. Today & Tomorrow's Printers & Publishers, 1981.	

	10. M.A. Smith, The Fauna of British India, Ceylon and Burma, Reptilia and Amphibia, VOL II – Sauria. Ralph Curtis Books, 1973.
Course Outcomes:	<p>The learner will</p> <ol style="list-style-type: none"> 1. Efficiently handle amphibians and reptiles 2. Identify and classify different species of amphibians and reptiles 3. Calculate the diversity indices of herpetofauna in any given area 4. Outline the structures and functions of different amphibian and reptilian systems