

Anekant Education Society's
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE & COMMERCE, BARAMATI
AUTONOMOUS INSTITUTE
DEPARTMENT OF ZOOLOGY

Course Title: Certificate Course in Herpetology

Course Objectives:

1. To understand the amphibian and reptilian diversity.
2. To understand the role of amphibians and reptiles in local ecosystem and agriculture.
3. To understand the conservation strategies of Amphibia and Reptilia.

Course Outcomes:

1. Student understands the diversity of amphibians and reptiles.
2. Student tries to identify amphibians and reptiles with the help of standard keys.
3. Student understands the role of amphibians and reptiles in local ecosystem.

Topics:

Unit No.	Content	No. of Lectures
1	Introduction to Herpetology: Definition, Scope, Importance, Applications	1
2	Amphibian Diversity: Anurans, Apodans, Urodelans Indian Scenario, General Anatomy of Anurans, Comparison with Apodans & Urodelans	1
3	Reproduction and Parental Care: Anurans, Apodans and Urodelans, Economic Importance, Zoological Significance	1
4	Reptilians: Chelonia: Turtles, Tortoises and Terrapins General Anatomy Reproduction & Development, Economic Importance, Zoological Significance	2
5	Reptilians: Crocodylia: Crocodiles and Alligators, General anatomy, Reproduction, Development, Economic importance	2
6	Reptilians: Ophidia: Snakes: General anatomy, Venom injecting apparatus Reproduction: Oviparous and Viviparous snakes Venomous, Semi venomous and Non Venomous Snakes. Snakes & Myths, Misbelifs (Blind faiths), Superstitions.	2
7	Poison Herpetology: Poisonous Amphibians, Natures of Poisons and Snake Venoms, First Aid, importance & Threats to Species.	1
8	Conservation Strategies:	2



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Legislation: International & National Laws, Role of Forest Dept., Role of NGOs		
PRACTICALS		
1	Identification of Amphibia: With Identification Keys. 1. Identification of Anura 2. Identification of Apoda 3. Identification of Urodela	6
2	Identification of Reptilia: With Identification Keys. 1. Identification of Squamata (LIZZARDS) 2. Identification Chelonia 3. Identification of Crocodilia	6
3	Practicals: Identification of Venomous and Non venomous Snakes with Identification Keys, Counting of scales	4
	Field Visit	2
TOTAL: (Theory : 12+ Practicals : 18)		30

Head,
Dept. of Zoology

