



ST. XAVIER'S COLLEGE (AUTONOMOUS)

Re-accredited with 'A+' by NAAC (4th Cycle) | Affiliated to Gujarat University

DEPARTMENT OF ZOOLOGY MULTIDISCIPLINARY COURSE SYLLABUS

Multidisciplinary Course: Animal Diversity and Conservation

Course Title & Code	Credit Distribution of The Course			Eligibility Criteria	Prerequisite(s) of the Course (if any)
	Lecture	Tutorial	Practical / Practice		
ZO-2350 Animal Diversity and Conservation	4	0	0	10 + 2 from a recognized board in any stream	Nil

I. Course Outcomes

At the end of the course, the students will be able to

- CO-1 To understand basic concepts and distribution of Biodiversity
- CO-2 Importance and methods of biodiversity conservation.
- CO-3 Legal aspects of Biodiversity conservation.

II. Course Content

UNIT – 1: Basic Concepts of Biodiversity

1. Introduction.
2. Importance of Biodiversity
3. Biosphere Reserves- Concept, Objectives, Composition and importance of Biosphere reserves of India

UNIT – 2: Advanced Concepts of Biodiversity

1. Types of Biodiversity; Genetic, species and ecological biodiversity. (Alpha, Beta and Gamma diversity).
2. Threats to biodiversity.
3. In-situ and Ex-situ conservation of biodiversity.

UNIT – 3: Distribution of Biodiversity in India

1. Bio geographic zones of India (ten zones).
2. Biological hotspots.

3. Animal diversity of Gujarat with reference to Lion, Blackbuck, wild Ass, Great Indian Bustard and Sloth Bear.

UNIT – 4: Conservation of Biodiversity

1. Biological diversity Act 2002.
2. Indian Board of Wildlife and its functioning.
3. Gujarat Biodiversity Board and its activities.
4. IUCN Red list categories.
5. Project Tiger of India, Crocodile Breeding Project.

IV. Reference Books / Suggested Websites

1. Ecology and Environment by P.D. Sharma, 12th Edition, Rastogi Publication, Meerut.
2. Textbook of Environmental Studies by Erach Bharucha published by UGC, University Press.
3. <http://gsbb.gujarat.gov.in>