

AC – 20/05/2025
Item No. – 6.5 (N) (1a) Sem. III

As Per NEP 2020

University of Mumbai



Syllabus for Basket of OE Vertical 3

Faculty of Science

Board of Studies in Zoology

Second Year Programme

Semester

III

Title of Paper

Credits

I) Wildlife Conservation

2

From the Academic Year

2025-26

Syllabus B.Sc. (Zoology) (Semester – III)

Title of Paper: Wildlife Conservation

Sr. No.	Heading	Particulars
1	Description of the course: Including but Not limited to:	The syllabus for "Wildlife Conservation" aims to sensitize learners to the crucial role that wildlife plays in ecological and biological processes, which are essential to life. It emphasizes the importance of sustainable management of natural resources. Through this course, learners will gain an understanding of various techniques used to evaluate trends in wildlife populations and the consequences of their decline. Upon completing the course, learners may choose to pursue further studies in the legal aspects of wildlife conservation or delve deeper into the study of biodiversity.
2	Vertical:	Open Elective
3	Type:	Theory
4	Credit:	2 credits (1 credit = 15 Hours for Theory in a semester)
5	Hours Allotted:	30 Hours
6	Marks Allotted:	50 Marks
7	Course Objectives: - To make learners recognize the significance of wildlife conservation, the causes of wildlife depletion, and the role of national and international conservation initiatives in protecting biodiversity. - To enable learners to evaluate various wildlife protection strategies, technological advancements in monitoring, and approaches to mitigating human-wildlife conflicts for sustainable conservation.	
8	Course Outcomes: Upon completing the syllabus, learners should be able to: - Classify wildlife species based on IUCN categories and illustrate the importance of national parks, sanctuaries, and biosphere reserves in conservation. - Assess the effectiveness of legal frameworks, conservation projects, and emerging technologies in wildlife protection and propose solutions to human-wildlife conflicts.	

Module 1: Wildlife Conservation I

1.1 Scope and Importance of Wildlife 1.1.1 Definition of Wildlife, Causes contributing to the depletion of Wildlife 1.1.2 Economic Importance of Wildlife 1.1.3 Necessity for Wildlife Conservation 1.1.4 IUCN Categorization of Wildlife – Critically Endangered, Endangered and Vulnerable Animals of Indian origin	03hrs
1.2 Wildlife Protected Areas as designated by IUCN 1.2.1 National Parks – Sanjay Gandhi NP, Tadoba NP 1.2.2 Wildlife Sanctuaries – Karnala Bird Sanctuary, Malvan Marine WLS 1.2.3 Biosphere Reserves 1.2.4 Conservation Reserves and Community Reserves	05hrs
1.3 Laws and Acts for Protection of Wildlife 1.3.1 History of Wildlife Protection in India 1.3.2 Wild Life (Protection) Act, 1972 and amendments	02hrs
1.4 Important Wildlife Conservation Projects in India 1.4.1 Project Tiger 1.4.2 Project Lion 1.4.3 Project Elephant 1.4.4 Project Great Indian Bustard	05hrs

Module 2: Wildlife Conservation II

2.1 Strategies of Protecting Wildlife 2.1.1 Habitat conservation 2.1.2 Zoos and Zoological Parks 2.1.3 Public education and awareness	05hrs
2.2 Wildlife Tracking and Monitoring 2.2.1 Anti-poaching Transmitter Technology 2.2.2 Remote Camera Trapping 2.2.3 GPS Tracking 2.2.4 Satellite Tracking 2.2.5 Wildlife Drones	05hrs
2.3 Human-Wildlife Interactions 2.3.1 Man-Animal conflict in India 2.3.2 Human-Wildlife Coexistence in India 2.3.3 Ecotourism 2.3.4 Wildlife Crimes and illegal Wildlife trade	05hrs

10	References: • Alerstam Thomas, 1993. Bird migration. Cambridge University Press; Reprint edition ISBN 978-0521448222. • Batschelet E. 1979. Introduction to Mathematics for Life Scientists Springer-Verlag Berlin and Heidelberg GmbH & Co. K; 3rd edition ISBN 978-3540096481. • Duellman, William E. and Linda Trueb, 1994. Biology of Amphibians, 1st edition (reprint, illustrated), JHU Press. ISBN 9780801847806. • Gans Carl, 1985. Biology of the Reptilia (vol. 15). Wiley Publishers. ISBN 978-0471812043. • Juneja, Kavita and H.S. Bhamrah, 2002. An Introduction to Reptiles, Anmol Publications Pvt. Ltd. ISBN 8126107103. • Majupuria T. C., 1986. Wildlife Wealth of India: Resources & Management, 2nd edition. Tecpress Service, ISBN 9789748733562 • Prater S. H., 1990. The book of Indian Animals, 3rd edition, Oxford University Press ISBN 9780195621693	
11	Internal Continuous Assessment: 40%	External, Semester End Examination 60% Individual Passing in Internal and External Examination
12	Continuous Evaluation through: Quizzes, Class Tests, Presentation, Project, Role play, Creative writing, Assignment etc. (at least 3)	

13

**Format of Question Paper:
S. Y. B. Sc. Zoology evaluation pattern and question paper pattern for semester
end theory examination of Open Elective course**

Internal Continuous Assessment: 40% (20 Marks)	Semester End Examination: 60% (30 Marks)	Duration for End Semester Examination
Assignment / Objective question test / Project / Role play / Creative writing (10 Marks), Viva (5 marks) Overall performance (5 Marks) Total (20 Marks)	As per paper pattern	01.00 hour

Format of Theory Question Paper: Semester End Examination

Time 1.0 Hr

Max. Marks 30

Attempt any two out of four:

Q. 1. Answer the following:	
a. Module I	05
b. Module I	05
c. Module II	05
Q. 2. Answer the following:	
a. Module II	05
b. Module II	05
c. Module I	05
Q. 3. Answer the following:	
a. Module I	08
b. Module II	07
Q. 4. Answer the following:	
a. Module II	08
b. Module I	07

Letter Grades and Grade Points:

Semester GPA/ Programme CGPA Semester/ Programme	% of Marks	Alpha-Sign/ Letter Grade Result	Grading Point
9.00 - 10.00	90.0 - 100	O (Outstanding)	10
8.00 - < 9.00	80.0 - < 90.0	A+ (Excellent)	9
7.00 - < 8.00	70.0 - < 80.0	A (Very Good)	8
6.00 - < 7.00	60.0 - < 70.0	B+ (Good)	7
5.50 - < 6.00	55.0 - < 60.0	B (Above Average)	6
5.00 - < 5.50	50.0 - < 55.0	C (Average)	5
4.00 - < 5.00	40.0 - < 50.0	P (Pass)	4
Below 4.00	Below 40.0	F (Fail)	0
Ab (Absent)	-	Ab (Absent)	0

Sd/-
Sign of the BOS
Coordinator
Dr. Vaishali U. Somani
BOS in Zoology

Sd/-
Sign of the
Offg. Associate Dean
Dr. Madhav R. Rajwade
Faculty of Science &
Technology

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Prof. Shivram S. Garje
Faculty of Science &
Technology