Open Elective Course Outcomes and Course Content

Under New Education Policy - Year 2021-22 for

I Semester

Core Course Content

Course Title: Indian Wildlife Biology	Course Credits: 3		
Course Code: ZOOE2	L-T-P per week: 3-0-0		
Total Contact Hours: 42 hours	Duration of ESA: 2 hours		
Formative Assessment Marks: 40	Summative Assessment Marks:60		

Course Outcomes (COs):

At the end of the course the student will be able to:

- Gain knowledge about Wildlife biology and conservation.
- Acquaint knowledge on wildlife management, laws and practices
- Acquaint the knowledge about basic procedure and methodology of field wildlife biology
- Learn various concepts of biodiversity conservation.
- Students can involve in conservation initiatives, volunteer for wildlife censuses
- Get employment in fields related to conservation

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes (POs)

Course Outcomes (COs) / Program	C	C	C	C	C	C	C	C	C	C	C
Outcomes (POs)	C	C	C	C	C	C	C	С	C	C	C
	Т	2	3	4	5	6	7	8	9	1	1
	1									0	1
I Core competency	X										
II Critical thinking	X										
III Analytical reasoning	X										
IV Research skills	X										
V Team work											

Note: Course Articulation Matrix relates course outcomes of course with the corresponding program outcomes whose attainment attempted in this course. Mark _X' in the intersection cell if a course outcome addresses a particular program outcome

Content	Hrs
Unit I : Wildlife Ecology	14
• Definition of Wildlife: Causes of wildlife depletion; Economic importance of	
wildlife; need for wildlife conservation; rare, endangered, threatened and	
endemic species of fishes, amphibians, reptiles, birds and mammals in India-	
India as a mega wildlife diversity country. Zoogeographic regions, endemism	
• Species interactions: Plant-animal interactions; mutualism, commensalism,	
competition and predation. Link between biodiversity and climate change	
• Wildlife Census Techniques: Direct count (block count, transect methods,	
Point counts, visual encounter survey, waterhole survey); Indirect count (Call	
count, track and signs, pellet count, pugmark, camera trap)-Identifying animals	
based onindirect signs; Capture-recapture techniques	
• Animal communication: Purpose and importance of communication – Types	
of communications - Visual, auditory, chemical and vocalization in birds &	
mammals.	
Unit II: Human Dimensions of Wildlife Conservation, Conservation Strategies/	14
Approaches	
Community Participation, Traditional Resource Dependence, Sustainable	
Livelihood, Community Forests, Eco-development and Eco-development	
Committees, Biodiversity Management Committees, Ecotourism	
• Sacred Grooves, Corridors, Citizen science and People participation in	
Conservation.	
• Captive breeding programs, population reintroductions and translocations	
• Livestock - Wildlife Interaction, Human-Wildlife Conflicts and Mitigation.	14
Unit III: Conservation Laws, Policies and Management	14
• Protected areas: in situ & ex situ conservation methods – National Parks,	
WildlifeSanctuaries, Conservation Reserves, Community Reserves, Biosphere	
Reserves in India	
National Wildlife Conservation Policy and Action Plans: Wildlife (Protection)	
Act.	
National Conservation Authorities (National Biodiversity Authority and National Times Conservations Authority) and Intermediated Conservations arises.	
National Tiger Conservation Authority), and International Conventions viz.,	
RAMSAR Convention, Convention on Biological Diversity, Convention on	
Migratory Species.	
• Eco-sensitive Zones, Wetlands of National Importance, Project Elephant,	
Project Snow Leopard, Important Bird Areas, Coastal and Marine	
Biodiversity, Forestryand Forest Management in India.	
 Biodiversity Hotspots. Keystone, Umbrella and Flagship species, 	

Reference Books:

- 1. Alcock, J. (2005) Animal Behaviour: An evolutionary approach. Sinauer Assoc., Sunderland, Mass.
- 2. Anon, 1992. Conservation on biological diversity. Text and annexure WWF-India
- 3. Saharia, V.B. 1982 Wildlife in India, Nataraj Publishers, Dehra Dun

Pedagogy: Written Assignment/Presentation/Project / Term Papers/ Seminar

Formative Assessment	
Assessment Occasion	Weightage in Marks
House Examination/Test – Mid semester test	20
Written Assignment/Presentation/Project /Seminar - I	10
Written Assignment/Presentation/Project /Seminar - II	10
Total	40

End Semester Question Paper Pattern:

Questions	With choices	Total mark
1 mark	20 x 1	20
2 marks	5 x 2 (7 questions)	10
5 marks	5 marks 2 x 5 (4 questions)	
10 marks	2 x 10 (3 questions)	20
TOTAL		60