Name of the Programme: M. Sc. Zoology Course Code: ZOO-531

Title of the Course: Wildlife Conservation & Management (Theory)

Number of Credits: 03 Effective from AY: 2023-24

Pre-requisites	Basic knowledge in wildlife conservation and management	
for the Course:		
Course Objectives:	 To provide knowledge on the status of Indian wildlife and t of conservation. 	he importance
objectives.	 To create opportunities for learners to explore different approaches to wildlife conservation and management To develop skilled learners to undertake research in the field of wildlife biology To inculcate a deeper understanding of scientific principles and policies/ legislations and their enforcement in wildlife conservation 	
Content:	Module 1 Wildlife conservation and management: Introduction to Indian Wildlife, History and Diversity, Biogeographic zones, Value of Wildlife, Important Indian fauna and their distribution, Protected Areas, Endemic	7 hours
	species; IUCN red list: Extinct species of India, Endangered, Threatened, Least concern and Critically Endangered. Climate change and its impact on wildlife. Impacts of pesticides on fauna.	8 hours
	Module 2 Environmental Ethics and Management: Conservation and Management of Wildlife: Conservation and management: In- situ conservation and Ex-situ conservation; Reintroduction, Ecological Restoration.	4 hours
	Innovative Methods in Wildlife: Camera Trap, Conservation Drones, Remote Sensing, Radio Telemetry, GIS, GPS Mobile App, Capturing and marking techniques, trapping, darting, tagging and banding, scat analysis, sign surveys. Wildlife Census and Indices: Methods of animal census,	6 hours 5 hours

	counting methods Animals in Indian Muthology Major	
	counting methods. Animals in Indian Mythology. Major	
	Projects. Ecotourism and Environment Impact Assessment	
		4 hours
	Module 3	
	Human Wildlife Conflict: Types of conflict, Prevention or	
	precautions, Human Elephant Conflict, Conflict between	
	human, Tiger and Leopard, Conflict with Sloth Bear.	
		3 hours
	Wildlife Trade and Crime: Wildlife products CITES, TRAFFIC,	
	Wildlife Crime Control Bureau in India, Wildlife Forensics.	
	Law, Ministry and Organizations: Wildlife Protection Act of	
	(1972), National Board of Wildlife, Environment Protection	5 hours
	Act (1986), Biological Diversity Act (2002), The First National	
	Wildlife Action Plan (NWAP) (1983), National Wildlife Action	
	Plan (2017-2031), MoEFCC	
	International organizations; UNESCO, IUCN, PETA. National	
	Institutes/Organizations; NTCA, ZSI, BSI, CZA, WII, SACONH,	3 hours
	ENVIS. Non-Government Organizations.	
Pedagogy:	Practicals/ Mini projects/ Group Activities	
References/	1. A.J. Urfi, Birds beyond Watching, India: University Pre	ss Pvt. Ltd.,
Readings:	2004.	
	2. R.F. Dasmann, Wildlife biology, New York: John Wiley and	Sons, 1964.
	3. M.J. Groom, K.G. Meffe, and C.R. Carroll, Principles of C	Conservation
	Biology – 2nd ed. Massachusetts: Sinauer Associates, Inc	Sunderland,
	2005.	
	4. R.H. Giles Jr., Wildlife management techniques - 3rd ed,	The wildlife
	society, Washington D.C, 1984.	
	5. R. Grimmet, C. Inskipp, and T. Inskipp, Pocket Guide to	the birds of
	Indian Subcontinent. New Delhi: Oxford University Press,	
	6. B.B. Hosetti, Wetlands Conservation and managem	
	Pointer Publishers, 2003.	•
	7. K. Kazmerezak, and V.P. Ber, A field Guide to the birds o	f India. New
	Delhi: OM Book Series, 2000.	
	8. W.L. Robinson, and E.G. Bolen, Wildlife Ecology and N	lanagement.
	New York: Millen Publishing Co., 1984	0
	9. S. Ali, The book of Indian Birds, revised edition. New De	elhi: BNHS &

	Oxford University press, 2002.	
	10. B.K. Sharma, and H. Kaur, Environmental Chemistry. Goel Publishing	
	House, Meerut, 1986.	
	11. R.D. Teague, ed., A Manual of wildlife conservation. The Wildlife	
	Society Washington D.C., 1980.	
	12. R.B. Primack, Essentials of Conservation Biology, 6th ed. Sinauer	
	Associates, 2014.	
	13. R. Mathur, Wildlife Conservation and Wildlife Management. Rastogi	
	Publications, 2018.	
Course	The learner will	
Outcomes:	1. Outline the reasons behind the decline of wildlife	
	2. Gain insight on the different methods and techniques in wildlife	
	conservation	
	3. Formulate strategies for wildlife conservation and management	
	4. Plan for long term conservation of wildlife	