AC -20/05/2025 Item No. - 8.4 (N) Sem IV 1(b)

As Per NEP 2020

University of Mumbai



Syllabus for Basket of OE

Board of Studies in GEOGRAPHYUG Second Year ProgrammeSemesterIVTitle of Paper -CreditsI) Biodiversity and Environmental
Conservation4From the Academic Year2025/2026

Title of Paper:- Biodiversity and Environmental Conservation

Sr.	Heading	Particulars	
No.			
1	Description of the course :	The "Biodiversity and Environmental Conservation" curriculum is designed for second-year students. It aims to explore the dynamics of our natural world, empowering students from diverse academic backgrounds to develop a holistic understanding of Biodiversity and Environmental Conservation and their relevance in contemporary society. The knowledge you gain here connects with diverse fields such as biology, economics, and even engineering. It is a foundation for further exploration in environmental science, conservation biology, and environmental policy. Ecosystems and biodiversity: Explore the intricate web of life on Earth and the importance of species diversity. Human impact: Analyse how human activities affect natural resources, climate, and pollution. Sustainability: Discover principles for living in harmony with the environment and meeting our needs without compromising future generations.	
	Including but not limited to :		
		engaging lectures, stimulating group discussions, and insightful case studies examining real-world environmental challenges and solutions.	
2	Vertical :	Open Elective	
3	Туре :	Theory	
4	Credit:	4 credits (1 credit = 15 Hours for Theory)	
5	Hours Allotted :	60 Hours	
6	Marks Allotted:	60 Marks	
7	Course Objectives: (List some	es: (List some of the course objectives)	
	1. To create awareness among the students about biodiversity.		
	2. To create awareness about the	2. To create awareness about the existence and importance of biodiversity.	
	To understand biodiversity and environmental conservation.		
	4. To create awareness about environmental conservation.		

8	Course Outcomes: (List some of the course outcomes.) On successful completion of this course, students will be able to:				
	1. Understand the concept of biodiversity and its need to save the environment.				
	2. Understand the biodiversity in the environment and help to conservation of biodiversity.				
	environment.				
9	Modules:- Per credit, one module can be created.				
	Module 1: Introduction to Biodiversity (15 hours)				
	1.1. Biodiversity: Concept and Definition				
	1.2. Biodiversity: Types and Importance.				
	1.3. Biodiversity at National and local levels.				
	1.4. Hotspots of biodiversity in india Module 2: Piediversity Concernation				
	2 1 Values of biodiversity				
	2.2. Biodiversity loss: its impact.				
	2.3. Threats to biodiversity.				
	2.4. Methods of biodiversity conservation.				
	Module 3: Environmental Issues and Management (15 hours)				
	3.1. Pollution: Concept and types				
	3.2. Global warming, depletion of Ozone layers				
	3.3. Classification of disaster: Natural and manmade				
	Module 4: Environmental Conservation (15 hours)				
	4.1.Environmental Conservation: concept and need				
	4.2.Resources: Types and Conservation.				
	4.3.Environmental laws and regulations.				
10	Text Books:				
	1. An Advanced Textbook on Biodiversity, Oxford & IBH, New Delhi				
	2. Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd., Bikaner. 3. Bharucha Frach. 2004. Textbook for Environmental Studies. University Grants				
	Commission, New Delhi (Available free on the web).				
	4. Biodiversity, TERI, New Delhi				
	6. Harris, Frances (2012) Global Environmental Issues. 2nd Edition. WilevBlackwell.				
	7. Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society,				
	Bombay (R).				
	House, Delhi 284 p.				
	9. Rajagopalan, R. (2011). Environmental Studies: From Crisis to Cure. India: Oxford				
	University Press. 10 Trivedi R K Handbook of Environmental Laws Rules Guidelines Compliances and				
	Standards, Vol I and II, Enviro Media (R)				
	11. घारपर विठ्ठल (२०१९) 'पर्ाोरण शास्त्र' वपपळापर अँड पाब्लीशर्ा, नागपर.				
	12. दां र, परमार, बटाला (२०१३) 'पर्ााारण भगाल' हिमालर्ा पब्ब्लशशग िाउर्, मंबइ.				

-	1			
	13. परमार, बोरर्े ि इतर (२०२२) 'पर्ाािरण भगोल' हिमालर्ा पब्ब्लशशग िाउर्, मबई.			
11	 Reference Books: Chiras, D. D and Reganold, J. P. (2010). Natural Resource Conservation: Management for a Sustainable Future, 10th edition, Upper Saddle River, N. J. Benjamin/Cummins/Pearson. Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge. Mohanta R., Sen A., Singh M.P., 2009, 'Environmental Education - Vol. 1', APH Publishing Corporation, New Delhi. Perumal M., Veerasekaran R., Suresh M., Asaithambi M., 2008, 'Environmental and Ecological issues in India', Abhijeet Publication, Delhi. Tiwari V., 2009, 'A textbook of Environmental studies', Himalaya Publications House, New Delhi. William M., Grossa J., 2002, 'Environmental Geography - Science, Land use and Earth Systems', John Wiley and Sons Inc, USA. World Commission on Environment and Development. 1987. Our Common Future. Oxford University Press 			
12	Internal Continuous Assessment: 40%	External, Semester End Examination		
		Individual Passing in Internal and External Examination: 60%		
13	Continuous Evaluation through:			
	Quizzes, Class Tests, presentations, projects, role play, creative writing, assignments, etc.(at least 3) Internal Continuous Assessment of 20 Marks 1. One Assignment/Project work/Case study /Presentation /Seminar /Field visit report/Book review, etc., to be conducted in the given semester before the semester-end examination. (Marks – 20) 2. One online/ offline class test (Marks – 10) 3. Active participation in regular class instructional deliveries and fieldwork. & Overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing environment-related activities (Marks – 10)	Semester-End Examination of 60 Marks 1. This examination shall be of a 2-hour duration. Maximum marks 60. 2. There shall be four questions, each of 15 marks. 3. All questions shall be compulsory with internal choice within the questions. (Each question will be of 15 marks with options.)		
14	Format of Question Paper: for the final examination			
	Q. 1. Based on Module – 1 (15 Marks) Q. 2. Based on Module -2 (15 Marks) Q. 3. Based on Module – 3 (15 Marks) Q. 4. Based on Module -4 (15 Marks)			

Sd/-

Sign of the BOS Chairman Dr. Rajaram B. Patil Board of Studies in Geography Sd/-

Sign of the

Faculty of

Studies

Dean

Offg. Associate

Dr. C.A.Chakradeo

Interdisciplinary

Sd/-

Sign of the Offg. Associate Dean Dr. Kunal Ingle Faculty of Interdisciplinary Studies Sign of the Offg. Dean Prof. A. K. Singh Faculty of Interdisciplinary Studies

Sd/-