

AC – 20/04/2024
Item No. – 8.30(N)Sem-II 2(c)

As Per NEP 2020

University of Mumbai



Syllabus for Basket of OE	
Board of Studies in GEOGRAPHY	
UG First Year Programme	
Semester - II	
Title of Paper -	Credits 2/ 4
I) Environmental Issues and Management	2
From the Academic Year	2024/2025

		paths, including environmental managers, sustainability consultants, policy analysts, conservation scientists, and environmental educators, among others, contributing to a more sustainable and resilient future for society and the planet.
2	Vertical :	Open Elective
3	Type :	Theory
4	Credit:	2 credits (1 credit = 15 Hours for Theory)
5	Hours Allotted :	30 Hours
6	Marks Allotted:	50 Marks
7	Course Objectives: (List some of the course objectives) 1. To create awareness among the students about environmental sustainability. 2. To make awareness about the impact of pollution and climate change. 3. To understand the techniques and practices of environmental impact assessment. 4. To understand the environmental movements and environmental management in India.	
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 pollution and climate change and control measures. 2. Understand the concept of environmental management and its need to save the environment. 3. Understand the Concept and Methods for Sustainable Development.	
9	Modules:- Per credit One module can be created	
	Module 1: Environmental Pollution (7 Hours)	
	1. Air Pollution: Causes, Effects, and Measures 2. Water Pollution: Causes, Effects, and Measures 3. Land Pollution: Causes, Effects, and Measures	
	Module 2: Environmental Issues and Movements (8 Hours)	
	1. Climate Change and Global warming 2. Ozone Depletion 3. Environmental Movements in India	
	Module 3: Environmental Management (7 Hours)	
	1. Waste: Sources, Types and Management 2. Environmental Management: Concept and Need 3. Environmental Impact Assessment	
	Module 4: Sustainable Development (8 Hours)	

	<ol style="list-style-type: none"> 1. Sustainable Development: Concept, Need and Factors 2. Sustainable Development Goals 3. Eco-friendly Lifestyles and Practices
10	<p>Text Books:</p> <ol style="list-style-type: none"> 1. Bharucha Erach, 2004, Textbook for Environmental Studies, University Grants Commission, New Delhi (Available free on the web) 2. Rajagopalan, R. (2011). Environmental Studies: From Crisis to Cure. India: Oxford University Press. 3. घारपुरे विठ्ठल (२०१९) 'पर्यावरण शास्त्र' पिंपळापुरे अँड पाब्लीशर्स, नागपूर. 4. देवरे, परमार, बुटाला (२०१३) 'पर्यावरण भूगोल' हिमालया पब्लिशिंग हाउस, मुंबई. 5. परमार, बोरसे व इतर (२०२२) 'पर्यावरण भूगोल' हिमालया पब्लिशिंग हाउस, मुंबई.
11	<p>Reference Books:</p> <ol style="list-style-type: none"> 1. Ahluwalia, V. K. (2015). Environmental Pollution, and Health. The Energy and Resources Institute (TERI). 2. Asolekar S, Gopichandran R. 2005, 'Preventive Environmental Management - an Indian perspective', CEE, Ahmedabad, Foundation Books Pvt Ltd, Daryaganj 3. Chambers N., Simons C., Wackernagel M., 2006, 'Sharing Nature's Interest - Ecological footprints as an indicator of sustainability'. 4. IPCC (2014): Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA 5. Kanchi Kohli and Manju Menon (2021) Development of Environment Laws in India, Cambridge University Press. 6. Miller, G. T., & Spoolman, S. (2015) Environmental Science. Cengage Learning. 7. OECD (2008): Climate Change Mitigation: "What do we do?"(Organisation and Economic Co-operation and Development). 8. Pittock, Barrie (2009) Climate Change: The Science, Impacts and Solutions. 2nd Edition. Routledge. 9. Prabu P.C., Udayasooriyan C., Balasubramanian G, 2009, 'An introduction to Ecology and Environmental Science', Avinash Paperbacks, New Delhi. 10.Reddy K. P., Reddy D. N., 2003, 'Environmental Education', Neelkanth Publication, Hyderabad. 11.Santra S.C., 2004, 'Environmental Science', New Central Book agency Pvt Ltd, Kolkata. 12.Saxena H.M., 2000, 'Environmental Management', Rawat Publication, New Delhi, pp. 13.Singh, R.B., Mal, Suraj, and Huggel, Christian (2018): Climate Change, Extreme Events and Disaster Risk Reduction, Springer, Switzerland, pages 309. 14.Swarup R.S., Mishra S.N., Juahari V.P, 1992, 'Encyclopedia of Ecology, environment and pollution control - 20', Mittal publication, New Delhi

	15. Tiefenbacher, J (ed.) (2022), Environmental Management - Pollution, Habitat, Ecology, and Sustainability, Intech Open, London. 10.5772/ 16. Tiwari V., 2009, 'A textbook of Environmental studies', Himalaya Publications House, New Delhi 17. Tomar A., 2007, 'Environmental Education', Kalpaz publication, New Delhi 18. Uberoi N.K., 2007, 'Environmental Management', Excel Books, New Delhi 19. Wright R., 2008, 'Environmental Science - Towards sustainable future', Eastern Economy Edition, Prentice Hall Inc, New Jersey, U.S.A 20. सुभाषचंद्र सारंग (१९९९) पर्यावरण भूगोल, विद्या प्रकाशन, नागपूर. 21. घोलप (२०००) 'पर्यावरण शास्त्र' निशिकांत प्रकाशन, पुणे	
12	Internal Continuous Assessment: 40%	External, Semester End Examination : 60% Individual Passing in Internal and External Examination
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 – 10) 2. One online/ offline class test (Marks – 5) 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 – 5)	Semester-End Examination of 30 Marks 1. This examination shall be of 1 Hour duration. Maximum marks 30. 2. There shall be two 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 & 2 (15 Marks) Q. 2. Based on Module – 3 & 4 (15 Marks)	



Sign of the BOS

Chairman

Name of the Chairman

Name of the BOS

Sign of the

Offg. Associate Dean

Name of the Associate Dean

Name of the Faculty

Sign of the

Offg. Dean

Name of the Offg. Dean

Name of the Faculty

Arts, Commerce, Science College, Bhalavali

Affiliated to University of Mumbai

Tal-Rajapur, Dist-Ratnagiri, Pin 416707.

प्रथम वर्ष वाणिज्य अभ्यासक्रम- शैक्षणिक वर्ष 2024-2025

सत्र – II क्रेडिट्स 2

पेपरचे शीर्षक - पर्यावरणीय समस्या आणि व्यवस्थापन

घटक क्र.	घटकाचे नाव	तासिका
1	पर्यावरण प्रदूषण	07
	1.1 वायू प्रदूषण: कारणे, परिणाम आणि उपाय 1.2 जल प्रदूषण: कारणे, परिणाम आणि उपाय 1.3 जमीन प्रदूषण: कारणे, परिणाम आणि उपाय	
2	पर्यावरणीय समस्या आणि हालचाली	
	2.1 हवामान बदल आणि ग्लोबल वार्मिंग 2.2 ओझोन थराचा न्हास 2.3 भारतातील पर्यावरणीय चळवळी	
3	पर्यावरण व्यवस्थापन	07
	3.1 कचरा: स्रोत, प्रकार आणि व्यवस्थापन 3.2 पर्यावरण व्यवस्थापन: संकल्पना आणि गरज 3.3 पर्यावरणीय प्रभाव मूल्यांकन	
4	शाश्वत विकास	
	4.1 शाश्वत विकास: संकल्पना, गरज आणि घटक 4.2 शाश्वत विकास उद्दिष्टे 4.3 इको-फ्रेंडली जीवनशैली आणि पद्धती	08

परीक्षेचे स्वरूप:-20 मार्क्स चे अंतर्गत निरंतर मूल्यांकन

1. एक असाईनमेंट (गुण – 10)
2. एक ऑनलाइन वर्ग चाचणी. (गुण –05)
3. नियमित वर्गात सक्रिय सहभाग (गुण – 05)

सत्रांत परीक्षा 30 गुणांची वेळ 01:00 तास

प्रश्नपत्रिकेचे स्वरूप: अंतिम परीक्षेसाठी

प्र. 1. घटक - 1 आणि 2 (15 गुण) वर आधारित

प्र. 2. घटक – 3 आणि 4 (15 गुण) वर आधारित