

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

## As Per NEP 2020

# University of Mumbai



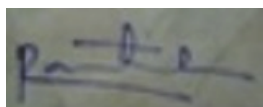
<b>Syllabus for Basket of OE</b>	
<b>Board of Studies in GEOGRAPHY</b>	
<b>UG First Year Programme</b>	
<b>Semester - II</b>	
<b>Title of Paper -</b>	<b>Credits 2/ 4</b>
<b>I) Environmental Issues and Management</b>	<b>2</b>
<b>From the Academic Year</b>	<b>2024/2025</b>

Sr. No.	Heading	Particulars
1	<p><b>Description of the course :</b></p> <p><b>Including but not limited to :</b></p>	<p><b>Environmental Issues and Management</b></p> <p>The “Environmental Issues and Management” curriculum is designed specifically for First Year Students. It aims to explore environmental challenges, equipping students with the knowledge and skills necessary to understand, address, and manage pressing environmental issues facing our planet.</p> <p>In an era marked by environmental degradation, climate change, and resource depletion, addressing environmental issues has become imperative for sustainable development. This curriculum serves as a platform for students to explore the complexities of environmental challenges such as pollution, habitat destruction, and climate change, while also delving into strategies for effective environmental management and sustainable development. By fostering a deeper understanding of environmental issues and management principles, students are empowered to become advocates for positive change in their communities and beyond.</p> <p>The knowledge and skills gained from this curriculum are applicable across a wide range of sectors and professions. Students will develop critical thinking, problem-solving, and decision-making skills essential for identifying environmental issues, implementing mitigation measures, and promoting sustainable practices. Whether pursuing careers in environmental consulting, resource management, urban planning, or policy development, students will find the principles and concepts explored in this course invaluable for addressing contemporary environmental challenges and contributing to a more sustainable future.</p> <p>Professionals with expertise in environmental issues and management are in high demand across various industries and sectors. Companies and organizations are increasingly recognizing the importance of integrating environmental considerations into their operations and decision-making processes, driving the need for individuals capable of navigating complex environmental challenges and implementing sustainable solutions. Graduates of this program can pursue diverse career</p>

		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	<b>Vertical :</b>	Open Elective
3	<b>Type :</b>	Theory
4	<b>Credit:</b>	2 credits ( 1 credit = 15 Hours for Theory)
5	<b>Hours Allotted :</b>	30 Hours
6	<b>Marks Allotted:</b>	50 Marks
7	<b>Course Objectives:</b> ( 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	<b>Course Outcomes: ( List some of the course outcomes )</b> 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	<b>Modules:-</b> Per credit One module can be created	
	<b>Module 1: Environmental Pollution (7 Hours)</b>	
	1. Air Pollution: Causes, Effects, and Measures 2. Water Pollution: Causes, Effects, and Measures 3. Land Pollution: Causes, Effects, and Measures	
	<b>Module 2: Environmental Issues and Movements (8 Hours)</b>	
	1. Climate Change and Global warming 2. Ozone Depletion 3. Environmental Movements in India	
	<b>Module 3: Environmental Management (7 Hours)</b>	
	1. Waste: Sources, Types and Management 2. Environmental Management: Concept and Need 3. Environmental Impact Assessment	
	<b>Module 4: Sustainable Development (8 Hours)</b>	

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

	<p>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</p>	
12	<b>Internal Continuous Assessment: 40%</b>	<b>External, Semester End Examination : 60% Individual Passing in Internal and External Examination</b>
13	<p><b>Continuous Evaluation through:</b>  Quizzes, Class Tests, presentations, projects, role play, creative writing, assignments etc. (at least 3)</p> <p><b>Internal Continuous Assessment of 20 Marks</b></p> <p>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. &amp; Overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing environment-related activities (Marks – 5)</p>	<p><b>Semester-End Examination of 30 Marks</b></p> <p>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.)</p>
14	<p><b>Format of Question Paper: for the final examination</b></p> <p>Q. 1. Based on Module – 1 &amp; 2 (15 Marks)  Q. 2. Based on Module – 3 &amp; 4 (15 Marks)</p>	



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