

Name of the Course
ENVIRONMENTAL ECONOMICS
TYBA

SEMESTER-VI

(Credit 4)

Sr.No.	Heading	Particulars
1	Description of the Course:	Environmental Economics is an undergraduate course designed for TYBA students to understand the economic dimensions of environmental issues and sustainable development. The course examines the interrelationship between economic growth, natural resources, and environmental quality. It introduces key concepts such as externalities, market failure, resource depletion, and sustainable development. Students explore causes of environmental degradation, including population growth, industrialization, and urbanisation, with special reference to India and emerging economies. The course also covers environmental policies, economic instruments, and regulatory frameworks at national and global levels. Emphasis is given to contemporary issues such as climate change, biodiversity loss, pollution, green economy, and the Sustainable Development Goals, enabling students to critically analyze environmental challenges and policy responses.
2	Vertical:	Elective Course
3	Type:	Theory
4	Credit:	4 Credits
5	Hours Allotted:	60 Hours
6	Marks Allotted:	100 Marks
7	Course Objectives:	1. To introduce students to the basic concepts, scope, and significance of Environmental Economics. 2. To develop an understanding of the interrelationship between economic development and environmental sustainability. 3. To analyse causes and consequences of environmental degradation in the context of economic growth. 4. To familiarize students with environmental policies, economic instruments, and regulatory mechanisms. 5. To examine national and international environmental laws, agreements, and sustainable development goals. 6. To enable students to critically assess contemporary environmental and developmental challenges. 7. To promote awareness of sustainable development practices and green economic alternatives.
8	Course Outcomes:	1. Explain key concepts and principles of Environmental Economics and sustainable development 2. Identify and analyze market failures, externalities, and resource depletion issues related to the environment. 3. Evaluate the relationship between economic growth, poverty, population, and environmental degradation. 4. Apply economic tools such as cost–benefit analysis and market-based instruments to environmental issues. 5. Assess the role of government policies, institutions, and international agreements in environmental protection. 6. Analyze environmental challenges faced by India and emerging economies. 7. Demonstrate awareness of contemporary environmental issues such as climate change, pollution, and biodiversity loss.

9	Module 1: Introduction to Environmental Economics (15 Hours) Nature and scope of Environmental Economics – Economy–environment relationship – Concepts of sustainable development – Environmental values: use value, non-use value – Market failure and environment – Externalities: types and implications – Tragedy of commons – Property rights and Coase theorem (basic understanding). Module 2: Environmental Degradation and Economic Growth (15 Hours) Population, poverty, and environmental degradation – Industrialization and urbanization – Environmental Kuznets Curve (EKC) – Natural resource economics: renewable and non-renewable resources – Resource depletion and conservation – Climate change: economic causes and impacts – Role of technology in environmental protection. Module 3: Environmental Policy and Economic Instruments (15 Hours) Environmental policy objectives – Command and control instruments – Market-based instruments: taxes, subsidies, tradable permits – Cost–benefit analysis and environmental decision-making – Environmental impact assessment (EIA) – Role of government, market, and institutions in environmental management. Module 4: Environment, Development and Contemporary Issues (15 Hours) Environment and development debate – Sustainable development goals (SDGs) and environment – Environmental laws and policies in India – Role of international agreements: Kyoto Protocol, Paris Agreement – Green economy and circular economy – Contemporary environmental issues: air and water pollution, waste management, biodiversity loss.
10	Text Books
11	Reference Books: 1. Tietenberg, T. & Lewis, L. (2021). <i>Environmental and Natural Resource Economics</i>. Routledge. 2. Hanley, N., Shogren, J., & White, B. (2019). <i>Environmental Economics in Theory and Practice</i>. Palgrave Macmillan. 3. Perman, R., Ma, Y., McGilvray, J., & Common, M. (2018). <i>Natural Resource and Environmental Economics</i>. Pearson. 4. Bhattacharya, R. (2020). <i>Environmental Economics: An Indian Perspective</i>. Oxford University Press. 5. Barry Field and Martha k Field: (2017), <i>Environmental Economics</i>, McGraw Hill International Edition. 6. Bennear, Lori Snyder, and Cary Coglianese (2004), <i>Evaluating Environmental Policies</i>, KSG Faculty Research Working Paper Series RWP04-049, USA. 7. Charles Kolstad : <i>Environmental Economics</i>, Oxford University Press, New York, 2000. 8. Hanley Nick, Shogren Jason and White Ben: <i>Introduction to Environmental Economics</i>, Oxford University Press, 2001. 9. Mickwitz, Per. (2003). <i>A Framework for Evaluating Environmental Policy Instruments Context and Key Concepts</i>. Evaluation. 10. Smith Stephen: <i>Environmental Economics: A very Short Introduction</i>, 1st Edition, Oxford University Press, New York, 2011. 11. M. L. Jhingan, C. K. Sharma (2009): <i>Environmental Economics : Theory, Management and Policy</i>, Vrinda Publications.

	Reports and Policy Documents 1. United Nations (2023). <i>Sustainable Development Goals Report</i>. 2. World Bank (2022). <i>World Development Report: Climate Change and Development</i>. 3. Government of India (2021). <i>India's Nationally Determined Contributions (NDCs)</i>. 4. Ministry of Environment, Forest and Climate Change (MoEFCC). <i>India State of Forest Report</i> (latest edition).																	
12	Internal Continuous Assessment: 40	60 marks Semester-end Examination																
13	Internal Assessment: 40 marks (Internal Assessment- without Practical Courses) <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Particular</th><th>Marks</th></tr> </thead> <tbody> <tr> <td>01</td><td>One periodical class test / online examination is to be conducted in the given semester</td><td>20 Marks</td></tr> <tr> <td rowspan="3">02</td><td colspan="2">One Project with a presentation based on the curriculum to be assessed by the teacher concerned</td></tr> <tr> <td>Presentation</td><td>05 Marks</td></tr> <tr> <td>Written Document</td><td>05 Marks</td></tr> <tr> <td>03</td><td>Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism, articulation and exhibit leadership qualities in organizing related academic activities</td><td>10 Marks</td></tr> </tbody> </table>		Sr. No.	Particular	Marks	01	One periodical class test / online examination is to be conducted in the given semester	20 Marks	02	One Project with a presentation based on the curriculum to be assessed by the teacher concerned		Presentation	05 Marks	Written Document	05 Marks	03	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism, articulation and exhibit leadership qualities in organizing related academic activities	10 Marks
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14	Question Paper Pattern External Assessment 60 Marks Marks: 60 Duration: 2 Hrs. <table border="1"> <thead> <tr> <th>Question No</th><th>Particular</th><th>Marks</th></tr> </thead> <tbody> <tr> <td>Q-1</td><td>Attempt Any 2 out of 3 A. (Based on Unit I) B. (Based on Unit I) C. (Based on Unit I)</td><td>15 Marks</td></tr> <tr> <td>Q-2</td><td>Attempt Any 2 out of 3 A. (Based on Unit II) B. (Based on Unit II) C. (Based on Unit II)</td><td>15 Marks</td></tr> <tr> <td>Q-3</td><td>Attempt Any 2 out of 3 A.(Based on Unit III) B.(Based on Unit III) C.(Based on Unit III)</td><td>15 Marks</td></tr> <tr> <td>Q-4</td><td>Attempt Any 2 out of 3 A.(Based on Unit IV) B.(Based on Unit IV) C.(Based on Unit IV)</td><td>15 Marks</td></tr> </tbody> </table>		Question No	Particular	Marks	Q-1	Attempt Any 2 out of 3 A. (Based on Unit I) B. (Based on Unit I) C. (Based on Unit I)	15 Marks	Q-2	Attempt Any 2 out of 3 A. (Based on Unit II) B. (Based on Unit II) C. (Based on Unit II)	15 Marks	Q-3	Attempt Any 2 out of 3 A.(Based on Unit III) B.(Based on Unit III) C.(Based on Unit III)	15 Marks	Q-4	Attempt Any 2 out of 3 A.(Based on Unit IV) B.(Based on Unit IV) C.(Based on Unit IV)	15 Marks	
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