

**Semester - I**

Course Code	Course Name	Credits
ENV2116N	ENVIRONMENTAL STUDIES	04

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorial	Total
03	-	01	03	-	01	04

Theory					Term Work / Practical/Oral			Total	
Internal Assessment				End Sem Exam	Duration Of End Sem Exam	Term Work	Pract.		Oral
Test	Continuous Evaluation	Attendance	Total						
15	10	05	30	70	3 Hours	-	-	-	100

**Course Objectives**

1. To identify and address environmental issues at local, regional, and global level.
2. To impart basic knowledge about the environment and its allied problems.
3. To develop an attitude of concern for the environment.
4. To motivate learners to participate in environment protection and environment improvement.
5. To acquire skills to help the concerned individuals in solving environmental problems.
6. Strive to attain harmony with Nature.

**Course Outcomes**

1. The course educates students in various waste management techniques and effective pollution control strategies.
2. The course covers sustainable use of natural resources and biodiversity conservation. Students will learn how to balance resource utilization.

3. This course equipped students with the ability to apply their knowledge, skills, values to mitigate environmental challenges and foster sustainable development.
4. Students will learn about international efforts taken to safeguard the Earth's environment and resources.
5. This course enables students to sensitize themselves to adverse health impacts of pollution and develop an understanding of the broad aspects of environmental management systems.
6. Students will learn about Environmental legal framework to protect and conserve environment.

<b>Detailed Syllabus</b>
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Module	Course Module / Contents	Hours	Marks Weightage
<b>I</b>	<b>Multidisciplinary nature of environmental studies</b>	06	10%
	Definition, scope, and importance, need for public awareness.		
	Origin of agriculture, Industrial revolution, and its impact on the environment, water conflicts.		
	Sustainable Development Goals (SDGs)- Targets, challenges, and strategies.		
	Natural Resources: Types, Use and Exploitation.		
<b>II</b>	<b>Ecosystem and Conservation of Biodiversity</b>	10	20%
	Ecosystem: Definition, Structure, and function		
	Ecosystem types, significance, and ecosystem services		
	Biodiversity: Definition, types, and values of Biodiversity		
	Biogeographical zones and Hot spots in India and convention on Biological Diversity (CBD)		

	Conservation of Biodiversity, Biodiversity Laws, and Regulations		
<b>III</b>	<b>Environmental Pollution and Control</b>	08	15%
	Definition, types, sources, effects, and control of pollution:		
	Air & Noise Pollution		
	Water Pollution		
	Soil Pollution & Solid waste		
<b>IV</b>	<b>Environment Quality Standards and Management</b>	06	10%
	An introduction of Environment Management System (EMS)		
	circular economy, eco Labelling, eco mark scheme.		
	Brief introduction of Environmental Impact Assessment: Concept and application		
<b>V</b>	<b>IPR &amp; Biosafety</b>	10	20%
	Introduction and Concept of IPR, Advantages and disadvantages of IPR		
	Introduction and concepts of biosafety, its levels in terms of environment and Human protection.		
<b>VI</b>	<b>Environmental Treaties and Legislation</b>	12	25%
	Introduction to Environmental laws and Regulation. National Green Tribunal: Landmark Supreme court Judgements.		
	Salient Features of following Acts:		
	The Environment Protection Act-1986, an Umbrella Act		
	The Water (P & CP) Act-1974.		

	The Air (P & CP) Act-1981, Noise pollution (regulation & control) Rules		
	E-waste, Biomedical waste and Plastic waste management and handling rules.		
	Factories Act		
<b>Total</b>		<b>52</b>	<b>100%</b>

#### References:

1. Environmental Studies-Chauhan B. S University Science Press
2. Textbook Of Environmental Studies Dava Katewa Cengage Learning Ptd Ltd
3. Perspectives In Environmental studies Kaushik, Anubha Kaushik C.P New age International Pvt Ltd
4. Environmental Sciences: A students Companion Gregory & Others Sage Publication
5. Environmental Pollution Control Engineering Rao, C.S New Age International Pvt Ltd
6. Textbook Of Environmental Studies for Undergraduate Courses Bharucha Erach Universities Press.
7. Environment Law & Policy in India- Shyam Divan