

LESSON PLAN FOR 3RD SEMESTER (SESSION-2023)
ENVIRONMENTAL STUDIES (THEORY-05)
NAME OF LECTURER: D.R. JENA
BRANCH: MECHANICAL

SL. NO.	MONTH	DATE	TOPICS TO BE COVERED	No. of periods available as per plan
			UNIT-1: THE MULTIDISCIPLINARY OF ENVIRONMENTAL STUDIES	
1	AUGUST	03/08/23	Definition, scope and importance	2
2		08/08/23	Need for public awareness	
			UNIT-2: NATURAL RESOURCES	
3		09/08/23	Renewable and non renewable resources: a) Natural resources and associated problems. • Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining	12
4		10/08/23	dams and their effects on forests and tribal people • Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water.	
5		14/08/23	dam's benefits and problems • Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	
6		16/08/23	• Food Resources: World food problems	
7		17/08/23	changes caused by agriculture and over grazing, effects of modern agriculture	
8		21/08/23	fertilizers- pesticides problems, water logging, salinity	
9		22/08/23	Energy Resources: Growing energy need, renewable and non-renewable energy sources	
10		23/08/23	use of alternate energy sources, case studies	
11		24/08/23	Land Resources: Land as a resource, land degradation	
12		28/08/23	man induces landslides, soil erosion, and desertification	
13		29/08/23	b) Role of individual in conservation of natural resources	
14	31/08/23	c) Equitable use of resources for sustainable life styles.		

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			<u>UNIT-3: SYSTEMS</u>		
1	SEPTEMBER	04/09/23	<ul style="list-style-type: none"> • Concept of an eco system. • Structure and function of an eco system 	5	
2		05/09/23	<ul style="list-style-type: none"> • Producers, consumers, decomposers. • Energy flow in the eco systems. 		
3		07/09/23	<ul style="list-style-type: none"> • Ecological succession. • Food chains, food webs and ecological pyramids. 		
4		11/09/23	<ul style="list-style-type: none"> • Introduction, types, characteristic features, structure and function of the following eco system: • Forest ecosystem 		
5		12/09/23	<ul style="list-style-type: none"> • Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries). 		
				<u>Unit-4: BIODIVERSITY & ITS CONSERVATION</u>	6
6		13/09/23	<ul style="list-style-type: none"> • Introduction-Definition: genetics, species and ecosystem diversity 		
7		14/09/23	<ul style="list-style-type: none"> • Biogeographically classification of India 		
8		18/09/23	<ul style="list-style-type: none"> • Value of biodiversity: consumptive use, productive use 		
9		20/09/23	Social, ethical, aesthetic and optin values.		
10		21/09/23	<ul style="list-style-type: none"> • Biodiversity at global, national and local level • Threats to biodiversity: Habitats loss 		
11		25/09/23	poaching of wild life, man wildlife conflicts		
				<u>Unit 5: Environmental Pollution</u>	3
12		26/09/23	Definition Causes, effects and control measures of: a) Air pollution.		
13	27/09/23	b) Water pollution c) Soil pollution			
14	28/09/23	d) Marine pollution e) Noise pollution			

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1	OCTOBER	03/10/23	e) Noise pollution	4
2			f) Thermal pollution	
3		04/10/23	f) Thermal pollution g) Nuclear hazards	
4		05/10/23	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.	
5		09/10/23	Role of an individual in prevention of pollution Disaster management: Floods, earth quake, cyclone and landslides	6
6			Unit 6: Social issues and the Environment	
7		09/10/23	Form unsustainable to sustainable development: • Urban problems related to energy.	
8		10/10/23	• Water conservation, rain water harvesting	
9		11/10/23	water shed management,	
10		12/10/23	• Resettlement and rehabilitation of people; its problems and concern.	
		30/10/23	• Environmental ethics: Issue and possible solutions.	
		31/10/23	• Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies	

SL. No.	MONTH	DATE	TOPICS TO BE COVERED	No. of periods available as per plan
1	NOVEMBER	01/11/23	• Air (prevention and control of pollution) Act.	3
2		02/11/23	• Water (prevention and control of pollution) Act.	
3		06/11/23	• Public awareness.	
			Unit-7: Human population and the environment	
4		07/11/23	• Population growth and variation among nations	6
5		08/11/23	• Population explosion – family welfare program	
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7		13/11/23	• Environment & human health	
8		14/11/23	• Value Education	
9		15/11/23	• Role of information technology in environment & human health	
10	16/11/23	REVISION		

SL NO.	MONTH	UNITS TO BE COVER	% OF COVERAGE
1	AUG.	UNIT:1,UNIT:2	20
2	SEPT.	UNIT-3,UNIT:4, UNIT-5 CONT.	30
3	OCT.	UNIT-5,UNIT:6 CONT.	30
4	NOV.	UNIT:6,UNIT:7	20

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