


ACADEMIC SESSION: 2024-25(WINTER -2024)

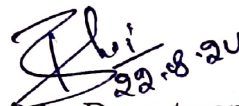
DISCIPLINE: ELECTRICAL ENGINEERING		Semester: 3RD	Name of the teaching faculty: Prabhudatta Pujapanda	
Subject: ENVIRONMENTAL STUDIES		Semester from date: 22.08..2024 to 8.11.2024		
SL NO	DATE	CHAPTER	THEORY TOPIC NAME	NO OF PERIODS
1.	22.8.24	THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES	The Multidisciplinary nature of environmental studies	1
			Definition, scope of environmental studies	
			Importance of environmental studies.	
			Need for public awareness	
2.	28.8.24	NATURAL RESOURCES	Natural Resources ,Renewable and non renewable resources:	1
3.			Natural resources and associated problems	
4.	29.8.24		Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people	
5.			Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.	
6.	2.9.24		Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	
7.		Food Resources: World food problems ,changes caused by agriculture & overgrazing, effects of modern agriculture, fertilizers-pesticides problems, water logging, salinity,	2	
8.	4.9.24	Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.	1	
9.		Land Resources: Land as a resource ,land degradation ,man induces landslides, soil erosion, and		

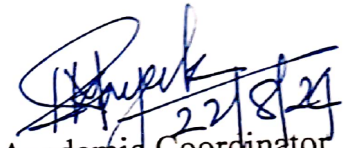
			<u>desertification. Role of individual in conservation of natural resources, Equitable use of resources for sustainable lifestyles</u>	
10.	<u>5.9.24</u>		<u>Role of individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles</u>	<u>1</u>
11.	<u>9.9.24</u>	<u>SYSTEMS</u>	<u>Concept of an ecosystem. Structure and function of an ecosystem.</u>	
12.			<u>Producers, consumers, decomposers. Energy flow in the ecosystems. Ecological succession.</u>	
13.			<u>Food chains</u>	
14.	<u>11.9.24</u>		<u>food web</u>	
15.			<u>Ecological pyramids.</u>	
16.			<u>Introduction, types, characteristic features, structure and function of the following ecosystem</u>	
17.	<u>12.9.24</u>		<u>Forest ecosystem: Aquatic ecosystems (ponds, streams, lakes.)</u>	
18.		<u>Forest ecosystem: Aquatic ecosystems (rivers, oceans, estuaries)</u>	<u>2</u>	
19.		<u>Biodiversity and its Conservation</u>		
20.	<u>18.9.24</u>	<u>Introduction-Definition: genetics, species and ecosystem diversity</u>		
21.		<u>Biogeographically classification of India..</u>		
22.		<u>Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and opt in values</u>	<u>1</u>	
23.	<u>19.9.24</u>	<u>Biodiversity at global, national and local level</u>		
24.		<u>Conservation of Biodiversity(X-situ IN-situ)</u>		
25.		<u>Threats to biodiversity</u>		
26.		<u>Habitats loss, poaching of wild life, man wildlife conflicts.</u>	<u>2</u>	
27.	<u>23.9.24</u>	<u>Environmental Pollution. Definition Causes, effects and control measures</u>		
28.		<u>Air pollution.</u>		
29.		<u>Water pollution.</u>		
30.		<u>Soil pollution</u>		

31.	<u>25.9.24</u>		<u>Marine pollution</u>	1
32.			<u>Noise pollution.</u>	
33.	<u>26.9.24</u>		<u>Thermal pollution ,</u>	1
34.			<u>Nuclear hazards</u>	
35.	<u>19.9.24</u>		<u>Solid waste Management: Causes, effects and control measures</u>	2
36.			<u>urban and industrial wastes</u>	
37.	<u>30.9.24</u>		<u>Role of an individual in prevention of pollution</u>	
38.			<u>Disaster management: Floods, earth quake, cyclone and landslides</u>	
39.			<u>Social issues and the Environment</u>	1
40.	<u>7.10.24</u>		<u>From unsustainable to sustainable development. Urban problems related to energy</u>	1
41.	<u>14.10.24</u>		<u>Water conservation, rain water harvesting, water shed management</u>	1
42.			<u>Resettlement and rehabilitation of people: its problems and concern</u>	
43.		<u>SOCIAL ISSUES AND ENVIRONMENTAL</u>	<u>Environmental ethics: issue and possible solutions.</u>	1
44.	<u>16.10.24</u>		<u>Climate change, global warming, acid rain.</u>	1
45.	<u>17.10.24</u>		<u>Ozone layer depletion, nuclear accidents and holocaust, case studies</u>	1
46.	<u>21.10.24</u>		<u>Air (prevention and control of pollution) Act.</u>	1
47.	<u>23.10.24</u>		<u>Water (prevention and control of pollution) Act. Public awareness.</u>	1
48.	<u>24.10.24</u>		<u>Public awareness</u>	1
49.	<u>28.10.24</u>		<u>Human population and the environment, Population growth and variation among nations</u>	1
50.	<u>30.10.24</u>	<u>HUMAN POPULATION AND THE ENVIRONMENTAL</u>	<u>Population explosion-family welfare program.</u>	1
51.	<u>4.11.24</u>		<u>Environment and human health.,</u>	1
52.			<u>Human rights</u>	1

53.		<u>Value education</u>	1
54.		<u>Role of information technology human health</u>	1
55.	<u>6.11.24</u>	<u>Role of information technology in environment</u>	1


 Prepared By 22.8.24
 Prabhudatta Pujapanda
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