

ACADEMIC SESSION: 2023-24(WINTER -2023)

DISCIPLINE:MECHANICAL ENGINEERING			Semester:3RD	Name of the teaching faculty: ASHISH MEHER
Subject: ENVIRONMENTAL STUDIES			Semester from date:01.08..2023 to 30.11.2023	
SL NO	DATE	CHAPTER	THEORY TOPIC NAME	NO OF PERIODS
1.	01.08.2023	THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES	The Multidisciplinary nature of environmental studies	1
2.	02.08.2023		Definition, scope of environmental studies	1
3.	04.08.2023		Importance of environmental studies,	1
4.	07.08.2023		Need for public awareness	1
5.	08.08.2023	NATURAL RESOURCES	Natural Resources ,Renewable and non renewable resources:	1
6.	09.08.2023		Natural resources and associated problems	1
7.	11.08.2023		Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people	1
8.	14.08.2023		Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.	1
9.	16.08.2023		Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	1
10.	18.08.2023		Food Resources: World food problems ,changes caused by agriculture & overgrazing, effectsofmodernagriculture, fertilizers-pesticidesproblems, water logging, salinity,	1
11.	21.08.2023		Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.	1
12.	22.08.2023		Land Resources: Land as a resource ,land degradation ,man induces landslides, soil erosion, and desertification. Role of individual in conservation of natural resources, Equitable use of resources for sustainable lifestyles	1
13.	23.08.2023		Role of individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles	1
14.	25.08.2023		SYSTEMS	Concept of an ecosystem. Structure and function of an ecosystem.
15.	28.08.2023	Producers, consumers, decomposers. Energy flow in the ecosystems. Ecological succession.		1
16.	29.08.2023	Food chains		1
17.	01.09.2023	food web		1
18.	04.09.2023	Ecological pyramids.		1
19.	05.09.2023	Introduction, types, characteristic features, structure and function of the following ecosystem		1

20.	08.09.2023	BIODIVERSITY AND ITS CONSERVATION	Forest ecosystem: Aquatic ecosystems (ponds, streams, lakes,)	1	
21.	11.09.2023		Forest ecosystem: Aquatic ecosystems (rivers, oceans, estuaries)	1	
22.	12.09.2023		Biodiversity and its Conservation	1	
23.	13.09.2023		Introduction-Definition: genetics, species and ecosystem diversity	1	
24.	15.09.2023		Biogeographically classification of India..	1	
25.	22.09.2023		. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and opt in values	1	
26.	25.09.2023		Biodiversity at global, national and local level	1	
27.	26.09.2023		Conservation of Biodiversity(X-situ IN-situ)	1	
28.	27.09.2023		Threats to biodiversity	1	
29.	29.09.2023		Habitats loss, poaching of wild life, man wildlife conflicts.	1	
30.	03.10.2023		ENVIRONMENTAL POLLUTION	Environmental Pollution. Definition Causes, effects and control measures	1
31.	04.10.2023			Air pollution.	1
32.	06.10.2023			Water pollution.	1
33.	09.10.2023	Soil pollution		1	
34.	10.10.2023	Marine pollution		1	
35.	11.10.2023	Noise pollution.		1	
36.	13.10.2023	Thermal pollution ,		1	
37.	16.10.2023	Nuclear hazards		1	
38.	17.10.2023	Solid waste Management: Causes, effects and control measures		1	
39.	18.10.2023	urban and industrial wastes		1	
40.	20.10.2023	Role of an individual in prevention of pollution		1	
41.	30.10.2023	Disaster management: Floods, earth quake, cyclone and landslides		1	
42.	31.10.2023	SOCIAL ISSUES AND ENVIRONMENTAL		Social issues and the Environment	1
43.	01.11.2023			From unsustainable to sustainable development. Urban problems related to energy	1
44.	03.11.2023			. Water conservation, rain water harvesting, water shed management	1
45.	06.11.2023			. Resettlement and rehabilitation of people; its problems and concern	1
46.	07.11.2023			Environmental ethics: issue and possible solutions.	1
47.	08.11.2023		Climate change, global warming, acid rain,	1	
48.	10.11.2023		Ozone layer depletion, nuclear accidents and holocaust, case studies	1	
49.	13.11.2023		Air (prevention and control of pollution) Act	1	
50.	14.11.2023		Water (prevention and control of pollution) Act. Public awareness.	1	
51.	15.11.2023		Public awareness	1	
52.	17.11.2023		HUMAN POPULATION AND THE ENVIRONMENTAL	Human population and the environment, Population growth and variation among nations	1
53.	20.11.2023	Population explosion-family welfare		1	

54.	21.11.2023	program.	
		Environment and human health.,	1
55.	22.11.2023	Human rights	1
56.	24.11.2023	Value education	1
57.	28.11.2023	Role of information technology human health	1
58.	29.11.2023	Role of information technology in environment	1

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