

GANDHI SCHOOL OF ENGINEERING

BHABANDHA, BERHAMPUR

BRANCH- CIVIL ENGINEERING

SEMESTER- 3RD

SUBJECT- Th5. ENVIRONMENTAL STUDIES

NAME OF THE FACULTY-ER. SWADHIN MUND

			Topic to be taken			Actual topic taken		
SI.		No. of period	Details of the topics	Date	Topic No.	Topic Name	Date	Remarks
1	The Multidisciplinary nature ofenvironmental studies	4	Definition, scope and importance, Need for public awareness.	15.09.2022 - 21.09.2022		Definition, scope and importance, Need for public awareness.	16.09.2022 20.09.2022 21.09.2022 22.09.2022	

		a) Natural resources and associated problems. • Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribalpeople. • Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems. • Mineral Resources: Use and exploitation, environmental effects of extracting and using		2	 a) Natural resources and associated problems. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribalpeople. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems. Mineral Resources: Use and exploitation, environmental effects of extracting and using 	23.09.2022 27.09.2022 28.09.2022 29.09.2022	
Natural Resources 2 Renewable and non renewable resources:	12	•	22.09.2022 - 14.10.2022		•	29.09.2022 30.09.2022 11.10.2022 12.10.2022 13.10.2022 14.10.2022	

3	Systems	12	 Concept of an eco system. Structure and function of an eco system. Producers, consumers, decomposers. Energy flow in the eco systems. Ecological succession. Food chains, food webs and ecological pyramids. Introduction, types, characteristic features, 	22.09.2022 - 14.10.2022	3	 Concept of an eco system. Structure and function of an eco system. Producers, consumers, decomposers. Energy flow in the eco systems. Ecological succession. Food chains, food webs and ecological pyramids. Introduction, types, characteristic features, 	19.10.2022 20.10.2022 21.10.2022 26.10.2022 27.10.2022	
			structure and function of the following eco system: • Forest ecosystem: • Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).			structure and function of the following eco system: • Forest ecosystem: • Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).	28.10.2022 01.11.2022 02.11.2022	
	: Biodiversity		 Introduction-Definition: genetics, species and ecosystem diversity. Biogeographically classification of India. Value of biodiversity: consumptive use, 	22.09.2022	4	 Introduction-Definition: genetics, species and ecosystem diversity. Biogeographically classification of India. Value of biodiversity: consumptive use, productive use, social othical postbotic and productive use. 	03.11.2022 04.11.2022 09.11.2022	
4	and it's Conservation	8	productive use, social ethical, aesthetic and optinvalues. • Biodiversity at global, national and local level. • Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.	- 14.10.2022		productive use, social ethical, aesthetic and optinvalues. • Biodiversity at global, national and local level. • Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.	10.11.2022 11.11.2022 15.11.2022 17.11.2022 18.11.2022	

5	Environmental Pollution.	18	Definition Causes, effects and control measures of: a) Air pollution. b) Water pollution. c) Soil pollution d) Marine pollution e) Noise pollution. f) Thermal pollution g) Nuclear hazards. Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution. Disaster management: Floods, earth quake, cyclone and landslides.	17.11.2022 - 30.11.2023	5	Definition Causes, effects and control measures of: a) Air pollution. b) Water pollution. c) Soil pollution d) Marine pollution e) Noise pollution. f) Thermal pollution g) Nuclear hazards. Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution. Disaster management: Floods, earth quake, cyclone and landslides.	22.11.2022 24.11.2022 25.11.2022 02.12.2022 06.12.2022 13.12.2022 14.12.2022 15.12.2022 20.12.2022 21.12.2022 22.12.2022	
	Social issues and the Environment	12	 Form unsustainable to sustainable development. Urban problems related to energy. Water conservation, rain water harvesting, water shed management. Resettlement and rehabilitation of people; its problems and concern. Environmental ethics: issue and possible solutions. Climatechange, globalwarming, acidrain, ozonelayerdepletion, nuclear accidents and holocaust, case studies. Air (prevention and control of pollution) Act. Water (prevention and control of pollution) Act. Public awareness. 	01.12.2022 - 13.12.2022	6	 Form unsustainable to sustainable development. Urban problems related to energy. Water conservation, rain water harvesting, water shed management. Resettlement and rehabilitation of people; its problems and concern. Environmental ethics: issue and possible solutions. Climatechange, globalwarming, acidrain, ozonelayerdepletion, nuclear accidents and holocaust, case studies. Air (prevention and control of pollution) Act. • Water (prevention and control of pollution) Act. Public awareness. 	23.12.2022 03.01.2023 04.01.2023 05.01.2023 06.01.2023	

Human 7 population and the environment	9	 Population growth and variation among nations. Population explosion- family welfare program. Environment and humanhealth. Human rights. Value education Role of information technology in environment and human health. 	14.12.2022 - 06.01.2022		 Population growth and variation among nations. Population explosion- family welfare program. Environment and humanhealth. Human rights. Value education Role of information technology in environment and human health. 	11.01.2023 12.01.2023 13.01.2023 19.01.2023 20.01.2023	
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Signature and Stamp of HOD: Civil Engg. Gandhi School of Engg. Berhampur (Gm.)

Signature & Stamp of HOD