

Discipline: Mechanical Engineering		Semester: 3 rd		Faculty: RAKESH ROSHAN APATTA	
Subject: ENVIRONMENTAL STUDIES (TH-05)		No of day/week of class allotted: 2 Periods		Semester starts from-15/09/2022 To 22/12/2022	
MONTH	WEEK	AVAILABILITY OF CLASSES	CLASS DAY	THEORY TOPICS TO BE COVERED	
September	1 st	01	15/09/2022	Briefing about the syllabus. Unit 2: Natural Resources Renewable and non-renewable resources: Forest resources; Use and over-exploitation, deforestation, case studies	
	2 nd	02	19/09/2022	Timber extraction mining, dams and their effects on forests and tribal people	
			22/09/2022	Water resources: Use and over-utilization of surface and ground water	
	3 rd	02	26/09/2022	floods, drought, conflicts over water, dam's benefits and problems.	
			29/09/2022	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	
October	4 th	02	10/10/2022	Food Resources: World food problems, changes caused by agriculture and over grazing	
			13/10/2022	Energy Resources: Growing energy need, renewable and non-renewable energy sources	
	5 th	02	17/10/2022	Land Resources: Land as a resource, land degradation,	
			20/10/2022	Role of individual in conservation of natural resources. Equitable use of resources for sustainable life styles.	
	6 th	01	27/10/2022	Class test 1	
	7 th	01	31/10/2022	Unit 4: Biodiversity and it's Conservation Introduction-Definition	
November	8 th	01	3/11/2022	genetics, species and ecosystem diversity	
	9 th	02	7/11/2022	Biogeographically classification of India.	
			10/11/2022	Q/A Discussion, PYQ Discussion Value of biodiversity: consumptive use, productive use,	
	10 th	02	14/11/2022	Biodiversity at global, national and local level.	
			17/11/2022	Threats to biodiversity	
	11 th	02	21/11/2022	Unit 6: Social issues and the Environment	
			24/11/2022	Form unsustainable to sustainable development.	
12 th	01	28/11/2022	Water conservation, rain water harvesting		
December	13 th	01	1/12/2022	Resettlement and rehabilitation of people	
	14 th	02	5/12/2022	Environmental ethics	
			8/12/2022	Climate change	
	15 th	02	12/12/2022	Air (prevention and control of pollution) Act.	
			15/12/2022	Unit 7: Human population and the environment. Population growth and variation among nations	
	16 th	02	19/12/2022	Environment and human health.	
		22/12/2022	Role of information technology in environment and human health.		

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Discipline: Mechanical Engineering		Semester: 3RD		Faculty: SASMITA SAHOO	
Subject: Environmental Studies (TH-5)		No of day/week of class allotted: 2 Periods		Semester starts from- 15/09/2022 To:22/12/2022	
MONTH	WEEK	AVAILABILITY OF CLASSES	CLASS DAY	THEORY TOPICS TO BE COVERED	
September	1 st	01	16/09/2022	Briefing about the syllabus. Module 1:Introduction Introduction to the subject and books used.	
	2 nd	02	20/09/2022	Definition of Environment	
			23/09/2022	Scope and Importance of Environment.	
	3 rd	02	27/09/2022	Need for Public Awareness	
			30/09/2022	Concept of an Ecosystem, Structure and function of an ecosystem.	
October	4 th	02	11/10/2022	Producer, Consumer, Decomposers.	
			14/10/2022	Energy flow in the ecosystem.	
	5 th	02	18/10/2022	Ecological Succession, food chain	
			21/09/2022	Food web and Ecological Pyramids	
	6 th	02	25/09/2022	Introduction, types, characteristics features, structure and function of Forest ecosystem.	
			28/10/2022	Aquatic Ecosystem (ponds, streams, rivers, lakes, oceans, estuaries)	
			29/10/2022	Class Test 01(Extra Class)	
November	7 th	02	01/11/2022	Environmental Pollution: Air Pollution (Causes, Effects and Control)	
			04/11/2022	Water Pollution	
	8 th	01	11/11/2022	Soil Pollution	
			15/11/2022	Marine Pollution	
	9 th	02	18/11/2022	Noise Pollution	
			22/11/2022	Thermal Pollution	
	10 th	02	25/11/2022	Nuclear Hazards	
			29/11/2022	Solid waste management: Cause, effects and control measures of urban wastes. .	
December	11 th	01			
	12 th	01	02/12/2022	Solid waste management: Cause, effects and control measures of industrial wastes.	
	13 th	02	06/12/2022	Role of an individual in prevention of pollution.	
			09/12/2022	Disaster management: Floods, Earthquake	
	14 th	02	13/12/2022	Cyclone & Landslides	
			16/12/2022	Human population and the environment: Population growth and variation among nations	
	15 th	01	20/12/2022	Population explosion- family welfare	

		Extra Class	Environment and human health
		Extra Class	Human rights and value education
		Extra Class	Role of information technology in environment and human health.
		Extra Class	Class test 02
		Extra Class	Q/A discussion
		Extra Class	PYQ Discussion
		Extra Class	PYQ Discussion
		Extra Class	Revision

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