LESSON PLAN FOR SUMMER SESSION (2022-23)

PROGRAMME : CIVIL ENGINEERING	NAME OF THE FACULTY: HARAPRIYA BADANAYAK
COURSE NAME : ENVIRONMENTAL STUDIES	SESSION : 2022-23
COURSE CODE : TH.5	DATE : 15/09/22 To 22/12/22
SEMESTER : 3rd	
PERIODS/WEEK: 4	
TOTAL PERIODS:52	

WEEK	PERIODS	UNIT	TOPICS
Sept. 3rd Week	1	1	1. The Multidisciplinary nature ofenvironmental studies Definition, scope and importance.
	2		The Multidisciplinary nature ofenvironmental studies Need for public awareness.
	3	2	2. Natural Resources, Renewable and non renewable resources, Natural resources and associated problems
	4		Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribalpeople.
Sept. 4th Week	1		Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.
	2		Mineral Resources: Use and exploitation, environmental effects of extracting and using mineralresources.
	3		Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity
	4	2	Energy Resources: Growing energy need, renewable and non renewable energy sources, use of alternate energy sources, case studies.
Oct. 1st Week	1		**PUJA VACATION**
	2		
	3		
	4		
Oct. 2nd Week	1	2	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, anddesertification.
	2		Role of individual in conservation of natural resources.
	3		Equitable use of resources for sustainable life styles.
	4	3	3. Systems □ Concept of an eco system.
Oct. 3rd Week	1		□ Structure and function of an eco system. □ Producers, consumers,decomposers.
	2		□ Energy flow in the eco systems.
	3		□ Ecological succession. □ Food chains, food webs and ecological pyramids.
	4		□ Introduction, types, characteristic features, structure and function of the following eco system:
Oct. 4th Week	1		□ Forest ecosystem: □ Aquatic eco systems (ponds, streams, lakes,rivers, oceans, estuaries).
	2	4	4. Biodiversity and it's Conservation □ Introduction-Definition: genetics, species and ecosystem diversity.
	3		□ Biogeographically classification of India.
	4		□ Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optinvalues.

Nov. 1st Week	1		□ Biodiversity at global, national and local level.
	2		□ Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
	3	5	**5.** Environmental Pollution. Definition Causes, effects and control measures of: a) Air pollution.
	4		b) Water pollution.
Nov. 2nd Week	1		c) Soil pollution
	2		d) Marine pollution e) Noise pollution.
	3		f) Thermal pollution
	4		g) Nuclear hazards.
Nov. 3rd Week	1		Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	2		Role of an individual in prevention of pollution.
	3		Disaster management: Floods, earth quake, cyclone and landslides.
	4	6	**6.** Social issues and the Environment □ Form unsustainable to sustainable development.
Nov. 4th Week	1		□ Urban problems related to energy.
	2		□ Water conservation, rain water harvesting, water shed management.
	3		□ Resettlement and rehabilitation of people; its problems and concern.
	4		□ Environmental ethics: issue and possible solutions.
Dec. 1st Week	1	6	□ Climatechange, globalwarming,acidrain,ozonelayerdepletion, nuclear accidents and holocaust, case studies.
	2		□ Air (prevention and control of pollution) Act.
	3		□ Water (prevention and control of pollution) Act. □ Public awareness.
	4	7	**7.** Human population and the environment □ Population growth and variation among nations.
Dec. 2nd Week	1		□ Population explosion- family welfare program. □ Environment and humanhealth.
	2		□ Human rights. □ Value education
	3		□ Role of information technology in environment and human health.
	4		**Doubt Clearing Class**
Dec. 3rd Week	1		**Doubt Clearing Class**
	2		**Doubt Clearing Class**
	3		**Previous year question Paper discussion.**
	4		**Previous year question Paper discussion.**

13/9/22
Concern faculty Signature

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