


Lesson Plan

Programme- Diploma in Civil Engg.	Semester-3rd	Faculty Name- Amit Kumar Sahu Soumy Sagar Tripathy
Subject- Environmental Studies(Th-5)	No. of Days/week class allotted-04 Total no. of Class-60	Session -Winter-2024 No. of Weeks- 15
Week No.	Class Day	Topics
1st	1st	Unit 1: The Multidisciplinary nature of environmental studies: Definition
	2nd	Unit 1: scope and importance
	3rd	Unit 1: scope and importance
	4th	Unit 1: Need for public awareness
2nd	1st	Unit 2: Natural Resources Renewable and non renewable resources: Natural resources and associated problems.
	2nd	Unit 2: Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.
	3rd	Unit 2: Water resources: Use and over-utilization of surface and ground water, floods, drought conflicts over water, dam's benefits and problems
	4th	Unit 2: Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
3rd	1st	Unit 2: Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers-pesticides problems, water logging, salinity,.
	2nd	Unit 2: Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
	3rd	Unit 2: Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.
	4th	Unit 2: Role of individual in conservation of natural resources., Equitable use of resources for sustainable life styles.
4th	1st	Unit 3: Systems, Concept of an eco system.
	2nd	Unit 3-Structure and function of an eco system
	3rd	Unit 3-Producers, consumers, decomposers
	4th	Unit 3-Energy flow in the eco systems
5th	1st	Unit 3-Ecological succession.
	2nd	Unit 3-Food chains, food webs and ecological pyramids
	3rd	Unit 3-Introduction, types, characteristic features, structure and function of the following eco system: Forest ecosystem:
	4th	Unit 3-Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries)
6th	1st	Unit 4-Biodiversity and its Conservation- Introduction-Definition: genetics, species and ecosystem diversity
	2nd	Unit 4-Biogeographically classification of India
	3rd	Unit 4-Value of biodiversity: consumptive use, productive use
	4th	Unit 4-social, ethical, aesthetic and option values.
7th	1st	Unit 4-Biodiversity at global, national and local level.
	2nd	Unit 4-Threats to biodiversity: Habitats loss
	3rd	Unit 4-poaching of wild life

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	4th	Unit 4-manwildlife conflicts.
8th	1st	Unit 5-Environmental Pollution- Definition Causes, effects and control measures of Air pollution.
	2nd	Unit 5-Definition Causes, effects and control measures of: Water pollution
	3rd	Unit 5-Definition Causes, effects and control measures of: Soil pollution.
	4th	Unit 5-Definition Causes, effects and control measures of: Marine pollution.
9th	1st	Unit 5-Definition Causes, effects and control measures of: Noise pollution.
	2nd	Unit 5-Definition Causes, effects and control measures of: Thermal pollution.
	3rd	Unit 5-Definition Causes, effects and control measures of: Nuclear pollution.
	4th	Unit 5-Solid waste Management: Causes, effects
10th	1st	Unit 5-Control measures of urban and industrial wastes.
	2nd	Unit 5-Role of an individual in prevention of pollution
	3rd	Unit 5-Disaster management: Floods,
	4th	Unit 5-Earth quake, cyclone and landslides.
11th	1st	Unit 6- Social issues and the Environment -Form unsustainable to sustainable development.
	2nd	Unit-6- Urban problems related to energy
	3rd	Unit-6- Water conservation, rain water harvesting
	4th	Unit-6- water shed management, Resettlement and rehabilitation of people, its problems and concern
12th	1st	Unit-6- Environmental ethics: issue and possible solutions.
	2nd	Unit-6- Climate change, global warming
	3rd	Unit-6- Acid rain, ozone layer depletion
	4th	Unit-6- Nuclear accidents and holocaust, case studies
13th	1st	Unit-6- Air (prevention and control of pollution) Act
	2nd	Unit-6- Water (prevention and control of pollution) Act., Public awareness
	3rd	Unit-7-Human Population and the Environment- Population growth
	4th	Unit-7-Population variation among nations
14th	1st	Unit-7-Population explosion- family welfare program.
	2nd	Unit-7-Population explosion- family welfare program.
	3rd	Unit-7-Environment and human health.
	4th	Unit-7-Environment and human health.
15th	1st	Unit-7-Human rights.
	2nd	Unit-7-Value education
	3rd	Unit-7-Value education
	4th	Unit-7-Role of information technology in environment and human health.


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 (AMIT K. SINGH)