

LESSON PLAN FOR ENVIRONMENTAL STUDIES (Th5)

Discipline: All	Semester: 3rd	Name of the Teaching Faculty: Ms. Deepika sarkar (Lect. In ETC)
Subject: ENVIRONMENTAL STUDIES	No. of days per week class allotted: 4	Semester From Date : 01.09.20 to Date: 31.12.20 Required No. of Weeks: 15
Week	Class Day	Theory
1st		1.The Multidisciplinary nature of environmental studies:
	1st	1.1 Definition, scope and importance.(cont.)
	2nd	1.1 Definition, scope and importance.
	3rd	1.2 Need for public awareness.(cont.)
	4th	1.2 Need for public awareness.
2nd		2. Natural Resources:
	1st	2.1 Natural resources and associated problems.
	2nd	2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.
	3rd	2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.
	4th	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
3rd	1st	2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers-pesticides problems, water logging, salinity,
	2nd	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
	3rd	2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.
	4th	2.2 Role of individual in conservation of natural resources.
4th	1st	2.3 Equitable use of resources for sustainable life styles.
	2nd	Question answer session.
	3rd	3. System: 3.1. Concept of an eco system.
	4th	3.2. Structure and function of an eco system.
5th	1st	3.3. Producers, consumers, decomposers.
	2nd	3.4. Energy flow in the eco systems.
	3rd	3.5. Ecological succession.

	4th	3.6. Food chains, food webs and ecological pyramids.
6th	1st	3.7. Introduction, types, characteristic features, structure and function of the following eco system:
	2nd	3.8. Forest ecosystem:3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans,
		4. Biodiversity and it's Conservation:
	3rd	4.1. Introduction-Definition: genetics, species and ecosystem diversity.
	4th	4.2. Biogeographically classification of India.
7th	1st	4.3. Value of biodiversity: consumptive use, productive use, (cont.)
	2nd	social ethical, aesthetic and optin values.
	3rd	4.4. Biodiversity at global, national and local level.
	4th	4.5. Threats to biodiversity: Habitats loss,(cont.)
8th	1st	poaching of wild life, man wildlife conflicts.
	2nd	Question answer session.
		5.Environmental Pollution:
	3rd	5.1. Definition Causes, effects and control measures of:
	4th	5.1.1 Air pollution.
9th	1st	5.1.2 Water pollution.
	2nd	5.1.3 Soil pollution
	3rd	5.1.4 Marine pollution
	4th	5.1.5 Noise pollution.
10th	1st	5.1.6 Thermal pollution
	2nd	5.1.7 Nuclear hazards.
	3rd	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	4th	5.3. Role of an individual in prevention of pollution.
11th	1st	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
	2nd	Question answer session.
		6.Social issues and the Environment:
	3rd	6.1. Form unsustainable to sustainable development.
12th	4th	6.2. Urban problems related to energy.
	1st	6.3. Water conservation, rain water harvesting, water shed management.
	2nd	6.4. Resettlement and rehabilitation of people; its problems and concern.
	3rd	6.5. Environmental ethics: issue and possible solutions.
13th	4th	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
	1st	6.7. Air (prevention and control of pollution) Act.
	2nd	6.8. Water (prevention and control of pollution) Act.
	3rd	6.9. Public awareness.
	4th	Question answer session.

		7.Human population and the environment:
14th	1st	7.1. Population growth and variation among nations.
	2nd	7.2. Population explosion- family welfare program.
	3rd	7.3. Environment and human health.
	4th	7.4. Human rights.
15th	1st	7.5. Value education
	2nd	7.6. Role of information technology in environment and human health.(cont.)
	3rd	7.6. Role of information technology in environment and human health.
	4th	Question answer session.

Principal

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