

Session - 2020-21

LESSON PLAN FOR ENVIRONMENTAL STUDIES (Th5)		
Discipline: <input checked="" type="checkbox"/> Electrical, <input checked="" type="checkbox"/> Mechanical, <input checked="" type="checkbox"/> Civil, <input checked="" type="checkbox"/> Automobile	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: 19/03/21
		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.)
2nd	4th	1.2 Need for public awareness.
		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	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.
	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.
4th	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.
	1st	2.3 Equitable use of resources for sustainable life styles.
	2nd	Question answer session.
5th	3rd	3. System:
	4th	3.1. Concept of an eco system.
	1st	3.2. Structure and function of an eco system.
	2nd	3.3. Producers, consumers, decomposers.
6th	3rd	3.4. Energy flow in the eco systems.
	4th	3.5. Ecological succession.
	1st	3.6. Food chains, food webs and ecological pyramids.
	2nd	3.7. Introduction, types, characteristic features, structure and function of the following eco system:
7th	3rd	3.8. Forest ecosystem: 3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans,
	4th	4. Biodiversity and it's Conservation:
	1st	4.1. Introduction-Definition: genetics, species and ecosystem diversity.
	2nd	4.2. Biogeographically classification of India.
8th	3rd	4.3. Value of biodiversity: consumptive use, productive use, (cont.)
	4th	social ethical, aesthetic and optin values.
	1st	4.4. Biodiversity at global, national and local level.
	2nd	4.5. Threats to biodiversity: Habitats loss, (cont.)
9th	3rd	poaching of wild life, man wildlife conflicts.
	4th	Question answer session.
	1st	5. Environmental Pollution:
	2nd	5.1. Definition Causes, effects and control measures of:
10th	3rd	5.1.1 Air pollution.
	4th	5.1.2 Water pollution.
	1st	5.1.3 Soil pollution
	2nd	5.1.4 Marine pollution
11th	3rd	5.1.5 Noise pollution.
	4th	5.1.6 Thermal pollution
	1st	5.1.7 Nuclear hazards.
	2nd	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
12th	3rd	5.3. Role of an individual in prevention of pollution.
	4th	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
	1st	Question answer session.
	2nd	6. Social Issues and the Environment:
13th	3rd	6.1. Form unsustainable to sustainable development.
	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.
14th	3rd	6.5. Environmental ethics: issue and possible solutions.
	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.
15th	3rd	6.9. Public awareness.
	4th	Question answer session.
	1st	7. Human population and the environment:
	2nd	7.1. Population growth and variation among nations
	3rd	7.2. Population explosion- family welfare program.
	4th	7.3. Environment and human health.
	1st	7.4. Human rights.
	2nd	7.5. Value education
	3rd	7.6. Role of information technology in environment and human health (cont.)
	4th	7.6. Role of information technology in environment and human health.
	1st	Question answer session.
	2nd	

Deepika Sarkar (lect in ETC)