

LESSON PLAN (Winter-2024)

Discipline: ETC	Semester: 3rd	Name of the Teaching Faculty: SOMA DASH
Subject: Environmental Studies	No of Days /per week class allotted: 4	Semester From date: 01.07.2024 To 08.11.2024 No of Weeks:19
Week	Class Day	Theory Topics
1st	1st	1. The Multidisciplinary nature of environmental studies:(04) 1.1 Definition, scope and importance.
	2nd	1.1 Definition, scope and importance.
	3rd	1.2 Need for public awareness.
	4th	1.2 Need for public awareness.
2nd	1st	2. Natural Resources: Renewable and nonrenewable resources(08) 2.1 Natural resources and associated problems. 2.1.1. Forest resources: Use and over-exploitation, deforestation,
	2nd	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,
	4th	floods, drought, conflicts over water, dam's benefits and problems.
3rd	1st	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
	2nd	2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing,
	3rd	effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity.
	4th	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
4th	1st	2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.
	2nd	2.2 Role of individual in conservation of natural resources. 2.3 Equitable use of resources for sustainable life styles.
	3rd	3. Systems:(08) 3.1. Concept of an eco system. 3.2. Structure and function of an eco system.
	4th	3.3. Producers, consumers, decomposers.
5th	1st	3.4. Energy flow in the eco systems.
	2nd	3.5. Ecological succession.
	3rd	3.6. Food chains, food webs and ecological pyramids.
	4th	3.7. Introduction, types, characteristic features, structure and function of the following eco system:
6th	1st	3.8. Forest ecosystem:
	2nd	3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries)
	3rd	4. Biodiversity and it's Conservation:(08) 4.1. Introduction-Definition: genetics,
	4th	species and ecosystem diversity.
7th	1st	4.2. Biogeographically classification of India.
	2nd	4.3. Value of biodiversity: consumptive use, productive use,
	3rd	social ethical, aesthetic and optin values.
	4th	4.4. Biodiversity at global, national and local level.

8th	1st	4.5. Threats to biodiversity: Habitats loss,
	2nd	poaching of wild life, man wildlife conflicts.
	3rd	5. Environmental Pollution:(12) 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
	4th	control measures of urban and industrial wastes.
11th	1st	5.3. Role of an individual in prevention of pollution.
	2nd	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
	3rd	6. Social issues and the Environment:(10) 6.1. Form unsustainable to sustainable development.
	4th	6.2. Urban problems related to energy.
12th	1st	6.3. Water conservation
	2nd	rain water harvesting, water shed management.
	3rd	6.4. Resettlement and rehabilitation of people; its problems
	4th	Resettlement and rehabilitation of people; its concern.
13th	1st	6.5. Environmental ethics: issue .
	2nd	6.5. Environmental ethics: possible solutions.
	3rd	6.6. Climate change, global warming,
	4th	acid rain, ozone layer depletion,
14th	1st	nuclear accidents and holocaust, case studies.
	2nd	6.7. Air (prevention and control of pollution) Act.
	3rd	6.8. Water (prevention and control of pollution) Act.
	4th	6.9. Public awareness.
15 TH		PUJA VACATION
16th	1st	7. Human population and the environment:(08) 7.1. Population growth
	2nd	and variation among nations.
	3rd	7.2. Population explosion- family welfare program.
	4th	7.3. Environment
17th	1st	and human health.
	2nd	7.4. Human rights.
	3rd	7.5. Value education
	4th	7.6. Role of information technology
18th	1st	Role of information technology in environment
	2nd	and human health.
	3rd	Revision
	4th	Revision
19 TH	1st	Revision
	2nd	Revision
	3rd	Revision
	4th	Revision