

LESSON PLAN

Department: CSE		Semester: 3rd , Name of Faculty : KUMARI JYOTI
Subject: Environmental Studies (EVS)	No. of days/ week Class allotted: 4	Effective From Date: 01.07.2024
		No. of Week- 15
		Topic to be Covered:
Week	Class Day	Theory
1st	1st	UNIT 1: THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES
	2nd	1.1. Definition, scope and importance
	3rd	1.2. Need for public awareness
	4th	1. Doubt Clearing class 2. Quiz test 3. Assignment
2nd	1st	UNIT 2: NATURAL RESOURCES
	2nd	a) Natural Resources and Associated Problems
	3rd	2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dam sand their effects on forest sand tribal people
	4th	2.1.2. Water resources: Use and over-utilization of surface and ground water, 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, effects of modern agriculture, fertilizers- pesticides problems, water logging and salinity.
	3rd	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
	4th	2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.
4th	1st	b) Role of Individual in Conservation of Natural Resources
	2nd	c) Equitable Use of Resources for Sustainable Life Styles
	3rd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	4th	UNIT 3: SYSTEMS
5th	1st	3.1. Concept of an eco-system.
	2nd	3.2. Structure and function of an eco-system.
	3rd	3.3. Producers, consumers, decomposers.
	4th	3.4. Energy flow in the eco systems
6th	1st	3.5. Ecological succession
	2nd	3.6. Food chains, food webs and ecological pyramids
	3rd	3.7. Introduction, types, characteristic features, structure and function of the following eco system
	4th	3.8. Forest ecosystem

7 th	1st	3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
	2nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3rd	UNIT 4: BIODIVERSITY AND IT'S CONSERVATION
	4th	4.1. Introduction-Definition: genetics, species and ecosystem diversity.
8 th	1st	4.2. Biogeographically classification of India.
	2nd	4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values
	3rd	4.4. Biodiversity at global, national and local level
	4th	4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
9 th	1st	1. Doubt Clearing class 2. Quiz test 3. Assignment
	2nd	UNIT 5: ENVIRONMENTAL POLLUTION
	3rd	5.1. Definition Causes, effects and control measures of: a) Air pollution. b) Water pollution. c) Soil pollution.
	4th	d) Marine pollution. e) Noise pollution. f) Thermal pollution. g) Nuclear hazards.
10 th	1st	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	2nd	5.3. Role of an individual in prevention of pollution.
	3rd	5.4. Disaster management: Floods, earth quake, cyclone and landslides.
	4th	UNIT 6: SOCIAL ISSUES AND THE ENVIRONMENT
11 th	1st	6.1. Form unsustainable to sustainable development
	2nd	6.2. Urban problems related to energy
	3rd	6.3. Water conservation, rain water harvesting, water shed management.
	4th	6.4. Resettlement and rehabilitation of people; its problems and concern.
12 th	1st	6.5. Environmental ethics: issue and possible solutions
	2nd	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
	3rd	6.7. Air (prevention and control of pollution) Act
	4th	6.8. Water (prevention and control of pollution) Act.
13 th	1st	6.9. Public awareness.
	2nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3rd	UNIT 7: HUMAN POPULATION AND THE ENVIRONMENT
	4th	7.1. Population growth and variation among nations
14 th	1st	7.2. Population explosion- family welfare program.

	2nd	7.3. Environment and human health.
	3rd	7.4. Human rights.
	4th	7.5. Value education
15th	1st	7.6. Role of information technology in environment and human health.
	2nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3rd	Revision
	4th	Previous Year Question Discussions

Signature of Faculty

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Senior Lecture, CSE
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