

Discipline: ELECTRICAL ENGINEERING	Semester : 3rd Semester-2020- 21	Name of the Teaching Faculty: Miss Swati Sharma Lect. Electrical Engineering
Subject: Environmental studies (EVS)	No. of Days/week Class Allotted: 60	Semester from date: 01/09/2020 to 19/03/2021 No of weeks: 18
Week	Class Day	Theory Topics
1 st	1 st	The Multidisciplinary nature of environmental studies: Definition, scope and importance.
	2 nd	Need for public awareness.
	3 rd	Forest resources: Use and over-exploitation, deforestation,
	4 th	case studies, Timber extraction
2 nd	1 st	Mining, dams and their effects on forests and tribal people.
	2 nd	Water resources: Use and over-utilization of surface and ground water,
	3 rd	floods, drought
	4 th	conflicts over water, dam's benefits and problem
3 rd	1 st	Mineral Resources: Use and exploitation
	2 nd	Environmental effects of extracting and using mineral resources.
	3 rd	Food Resources: World food problems
	4 th	changes caused by agriculture and over grazing
4 th	1 st	effects of modern agriculture, fertilizers- pesticides problems,
	2 nd	water logging, salinity
	3 rd	Energy Resources: Growing energy need,
	4 th	renewable and non-renewable energy sources,
5 th	1 st	Use of alternate energy sources, case studies.
	2 nd	Land Resources: Land as a resource, land degradation
	3 rd	Man induces landslides, soil erosion, and desertification.
	4 th	Role of individual in conservation of natural resources
6 th	1 st	Equitable use of resources for sustainable life styles.
	2 nd	Concept of an eco-system.
	3 rd	Structure and function of an eco-system.
	4 th	Producers, consumers, decomposers.

7 th	1 st	Energy flow in the eco systems.
	2 nd	Ecological succession.
	3 rd	Food chains,
	4 th	Food webs and ecological pyramids.
8 th	1 st	Introduction, types, characteristic features, structure and function of the following eco system: Forest ecosystem:
	2 nd	Aquatic eco systems (ponds, streams, lakes, rivers, oceans,
	3 rd	Introduction-Definition: genetics, species and ecosystem diversity.
	4 th	Bio-geographical classification of India.
9 th	1 st	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values.
	2 nd	Biodiversity at global, national and local level.
	3 rd	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts
	4 th	Definition Causes, effects and control measures of: AIR POLLUTION
10 th	1 st	Definition Causes, effects and control measures of: WATER POLLUTION
	2 nd	Definition Causes, effects and control measures of: SOIL POLLUTION
	3 rd	Definition Causes, effects and control measures of: MARINE POLLUTION
	4 th	Definition Causes, effects and control measures of: NOISE POLLUTION
11 th	1 st	Definition Causes, effects and control measures of: THERMAL POLLUTION
	2 nd	Definition Causes, effects and control measures of: NUCLEAR POLLUTION
	3 rd	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
	4 th	Role of an individual in prevention of pollution.
12 th	1 st	Disaster management: Floods, earth quake, cyclone and landslides
	2 nd	Form unsustainable to sustainable development.
	3 rd	Urban problems related to energy.
	4 th	Water conservation, rain water harvesting, water shed management.
13 th	1 st	Resettlement and rehabilitation of people; its problems and concern.
	2 nd	Environmental ethics: issue and possible solutions.
	3 rd	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.
	4 th	Air (prevention and control of pollution) Act

14 th	1 st	Water (prevention and control of pollution) Act.
	2 nd	Public awareness.
	3 rd	Population growth and variation among nations.
	4 th	Population explosion- family welfare program.
15 th	1 st	Environment and human health
	2 nd	Human rights Value education
	3 rd	Revision of Chapter – 01
	4 th	Revision of Chapter – 02
16 th	1 st	Revision of Chapter – 03
	2 nd	Revision of Chapter – 04
	3 rd	Revision of Chapter – 05
	4 th	Revision of Chapter – 06
17 th	1 st	Discussion of Probable Questions and Answers (1)
	2 nd	Discussion of Probable Questions and Answers(2)
	3 rd	Discussion of Probable Questions and Answers (3)
	4 th	Discussion of Probable Questions and Answers(4)
18 th	1 st	Discussion of Probable Questions and Answers (5)
	2 nd	Discussion of Probable Questions and Answers(6)
	3 rd	Discussion of Probable Questions and Answers (7)
	4 th	Discussion of Probable Questions and Answers (8)