

## Lesson Plan

Name of the Faculty : Ms. Nidhi

Discipline : CSE/ME

Semester : 4<sup>th</sup>

Subject : Environmental Studies (ME/CSE)

Lesson Plan Duration : (from Jan., 2020 to May., 2020)

\*\* Work Load (Lecture) per week (in hours): Lectures-02

Week	Theory	
	Lecture Day	Topic (including assignment/test)
1 <sup>st</sup> (04/01/20) To (11/01/20)	1 <sup>st</sup>	The Multidisciplinary nature of environment studies - Definition, scope and importance
	2 <sup>nd</sup>	Natural Resources: Renewable and non-renewable resources: Naturalresources and associated problems. a) Forest resources: <b>ASSIGNMENT-1</b>
2 <sup>nd</sup> (12/01/20) To (19/01/20)	1 <sup>st</sup>	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. c)
	2 <sup>nd</sup>	Food resources : World food problems, changes, caused by agriculture and overgrazing, effects of modern agriculture, -pesticide problems, Water logging, salinity, case studies
3 <sup>rd</sup> (20/01/20) To (27/01/20)	1 <sup>st</sup>	Energy resources : Growing energy needs; renewable and non-renewable energy sources, use of alternate energy sources, case studies
	2 <sup>nd</sup>	Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification <b>ASSIGNMENT-2</b>
4 <sup>th</sup> (28/02/20) To (23/02/20)	1 <sup>st</sup>	Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies
	2 <sup>nd</sup>	Timber extraction, mining dams and their effects on forests and tribals

5 <sup>th</sup> (04/02/20) To (11/02/20)	1 <sup>st</sup>	Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles.
	2 <sup>nd</sup>	Producers, consumers and decomposers, Energy flow in the ecosystem. Ecological succession
6 <sup>th</sup> (12/02/20) To (19/02/20)	1 <sup>st</sup>	Food chains, food webs and ecological pyramids. Introduction, types, characteristic features, structure and function of the following eco-system :a. Forest ecosystem
	2 <sup>nd</sup>	Grassland ecosystem c. Desert ecosystem. d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)
7 <sup>th</sup> (20/02/20 ) To (27/02/20)	1 <sup>st</sup>	Biodiversity and its conservation : Introduction - Definition : Genetic, Species and ecosystem diversity.
	2 <sup>nd</sup>	Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values.
8 <sup>th</sup> (28/02/20) To (06/03/20)	1 <sup>st</sup>	Biodiversity at global, National and local levels. India as a mega-diversity nation.
	2 <sup>nd</sup>	Hot-spots of biodiversity. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts.
9 <sup>th</sup> (07/03/20) To (14/03/20)	1 <sup>st</sup>	Endangered and endemic species of India. Conservation of biodiversity : In-situ and ex-situ conservation of biodiversity
	2 <sup>nd</sup>	Environmental pollution: Definition, causes, effects and control measures of :a) Air pollution. b) Water pollution c) Soil pollution
10 <sup>th</sup> (15/03/20) To (22/03/20)	1 <sup>st</sup>	d) Marine pollution e) Noise pollution f) Thermal pollution g) Nuclear hazards
	2 <sup>nd</sup>	Solids waste management: causes, effects and control measures of urban and industrial wastes.
11 <sup>th</sup> (23/03/20) To (30/03/20)	1 <sup>st</sup>	Role of an individual in prevention of pollution. Pollution case studies
	2 <sup>nd</sup>	Disaster management : floods, earthquake, cyclone and landslides.

12 <sup>th</sup> (31/03/20 ) To (06/04/20)	1 <sup>st</sup>	Social issues and the Environment: From unsustainable to sustainable development. Urban problems related to energy.
	2 <sup>nd</sup>	Water conservation, rain water harvesting, watershed management. Resettlement and rehabilitation of people its problems and concerns case studies
13 <sup>th</sup> (07/04/20) To (14/04/20)	1 <sup>st</sup>	Environmental ethics : Issues and possible solutions. Climate change, global warming, acid rain, ozone layer depletion
	2 <sup>nd</sup>	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies
14 <sup>th</sup> (15/04/20) To (22/04/20)	1 <sup>st</sup>	Water (Prevention and Control of pollution) Act. Wildlife Protection Act. Forest Conservation
	2 <sup>nd</sup>	Forest Conservation Act. Issues involved in enforcement of environmental legislation. Public awareness.
15 <sup>th</sup> (23/04/20) To (30/04/20)	1 <sup>st</sup>	Human population and the Environment- Population growth, variation among nations. Population explosion- Family Welfare Programme
	2 <sup>nd</sup>	Environment and human health. Human Rights Value Education.HIV/AIDS. Woman and Child Welfare Role of Information Technology in Environment and human health. Case Studies.
16 <sup>th</sup> (01/05/20) To (04/04/20)	1 <sup>st</sup>	REVISION OF SYLLABUS
	2 <sup>nd</sup>	REVISION OF SYLLABUS