

ACADEMIC SESSION : WINTER 2022

Discipline : Civil Engineering	Semester : 3 rd	Name Of The teaching faculty : Iti Epsitarani Sethi
Subject : Environmental Studies	No. of days / week class allotted	Semester From date : 15.09.2022 to 22.12.2022 Nos. of Weeks :15
Week	Class Day	Theory / Practical topics
1st	1 st	Unit 1 – Multidisciplinary nature of environmental studies Definition of Environment
	2 nd	Scope and importance of Environment
	3 rd	Scope and importance of Environment
	4 th	Need for public awareness
2nd	1 st	Unit -2 -Natural resource
	2 nd	Renewable and non renewable resource
	3 rd	Forest resource (use and over exploitation deforestation, case studies etc.)
	4 th	Water Resource (use and over utilization of surface and ground water, flood and draught etc.)
3rd	1 st	Mineral resource (use and exploitation environmental effect of extracting and using mineral resource)
	2 nd	Food resource – world food problems, change cause by agriculture and over grazing, effect of modern agriculture etc
	3 rd	Energy resource – growing energy need, renewable and non renewable source, use of alternate energy source
	4 th	Land resource – land as resource, land degradation, soil erosion
4th	1 st	Role of individual in conservation of natural resource
	2 nd	Equitable use of resource for sustainable life style
	3 rd	Unit -3 – System (Concept of an eco-system)
	4 th	Structure and function of an eco-system
5th	1 st	Producers, consumers, decomposers
	2 nd	Energy flow in the eco-system
	3 rd	Ecological succession
	4 th	Food chain, food web and ecological pyramids

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6th	1 st	Food ecosystem (Types, characteristic features, structure and function)
	2 nd	Aquatic ecosystem (Ponds, streams, lakes, rivers, ocean)
	3 rd	Unit 4 – Biodiversity and its Conservation Introduction, definition of biodiversity
	4 th	Definition of genetics, species, and ecosystem diversity
7th	1 st	Biographical classification of India
	2 nd	Value of Biodiversity- consumptive use, productive use, social, ethical, aesthetic and option values
	3 rd	Biodiversity at global level
	4 th	Biodiversity at national and local level
8th	1 st	Threads of biodiversity- habitats loss
	2 nd	poaching of wild life, men wild life conflicts
	3 rd	Unit 5 – Environmental pollution Air pollution – Definition, causes , effects and control measure
	4 th	Water pollution - Definition, causes , effects and control measure
9th	1 st	Soil pollution - Definition, causes , effects and control measure
	2 nd	Marine pollution - Definition, causes , effects and control measure
	3 rd	Noise pollution - Definition, causes , effects and control measure
	4 th	Thermal pollution - Definition, causes , effects and control measure
10th	1 st	Nuclear Hazards - Definition, causes , effects and control measure
	2 nd	Solid waste management – definition, cause
	3 rd	Effect and control measure of urban and industrial waste
	4 th	Role of individual in prevention of pollution

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11th	1 st	Disaster management- floods and earth quake
	2 nd	Cyclone and landslides
	3 rd	Unit 6 – Social issues and the environment Form unsustainable to sustainable development
	4 th	Urban problem related to energy
12th	1 st	Water conservation, rain water harvesting, watershed management
	2 nd	Resettlement and rehabilitation of people ; its problems and concern
	3 rd	Environmental ethics: issues and possible solution
	4 th	Climate change, global warming, acid rain, ozone layer depletion
13th	1 st	Nuclear accident and holocaust and case studies
	2 nd	Air (prevention and control)
	3 rd	Water (prevention and control)
	4 th	Public awareness
14th	1 st	Unit 7 – Human population and environment Population growth
	2 nd	variation among nation
	3 rd	Population explosion – family welfare program
	4 th	Environment and human health
15th	1 st	Human rights
	2 nd	Value education
	3 rd	Role of Information technology in the environment
	4 th	Human health