Discipline :- **CIVIL ENGG.**	Semester:- **3rd**	Name of the Teaching Faculty:- KIRAN NAIK
Subject:- **ENVIRONMENTAL STUDIES**	No of Days/per Week Class Allotted :- **5**	Semester From:- **1st August,2023** To:- **30th November,2023** No of Weeks:- **18**

Week	Class Day	Theory/ Practical Topics
1st	1st	Definition, scope of Environmental studies
	2nd	Multidisciplinary nature of environment
	3rd	Importance
	4th	Need for public awareness
	5th	Renewable and Non-renewable resources
2nd	1	Natural resources and associated problems : Forest resources: Use and over-exploitation, deforestation, case studies.
	2nd	Timber extraction mining, dams and their effects on forests and tribal people.
	3rd	Water resources: Use and over-utilization of surface and ground water.
	4th	floods, drought, conflicts over water, dam's benefits and problems.
	5th	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
3rd	1th	Food Resources: World food problems, changes caused by agriculture and over grazing,
	2nd	Effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,
	3rd	Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
	4th	Land Resources: Land as a resource, land degradation, man induces land slides, soil erosion, and desertification.
	5th	a) Role of individual in conservation of natural resources.
4th	1st	b) Equitable use of resources for sustainable life styles.
	2nd	Concept of an eco system.
	3rd	Structure and function of an eco system
	4th	Producers, consumers, decomposers
	5th	Energy flow in the eco systems
5th	1st	Ecological succession
	2nd	Food chains
	3rd	food webs
	4th	ecological pyramids
6th	1st	Introduction, types, characteristic features of the following eco system
	2nd	structure and function of the following eco system
	3rd	Forest ecosystem

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	4th	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
7th	1st	Introduction-Definition: genetics, species and ecosystem diversity.
	2nd	Biogeographically classification of India
	3rd	Value of biodiversity: consumptive use
	4th	Productive use, social ethical
	5th	Aesthetic and option values
8th	1st	Biodiversity at global, national and local level.
	2nd	Threats to biodiversity: Habitats loss,
	3rd	Poaching of wild life, man wildlife conflicts.
	4th	Definition Causes of Environmental Pollution
	5th	Effects of Environmental Pollution
9th	1st	control measures of Environmental Pollution
	2nd	a) Air pollution.
	3rd	b) Water pollution. c) Soil pollution
10th	1st	a) Marine pollution b) Noise pollution.
	2nd	a) Thermal pollution b) Nuclear hazards.
	3rd	Solid waste Management Causes
	4th	Solid waste Management effects
11th	1st	Solid waste Management control measures of urban wastes Solid waste Management control measures of industrial wastes
	2nd	Role of an individual in prevention of pollution Pollution case studies
	3rd	Disaster management: Floods, earth quake Disaster management : cyclone and landslides
	4th	Disaster management: Floods, earth quake
	5th	Form unsustainable to sustainable development.
12th	1st	Urban problems related to energy. Water conservation, rain water harvesting water shed management
	2nd	Resettlement and rehabilitation of people; its problems and concern Environmental ethics: issue and possible solutions
	3rd	Climate change, global warming Nuclear accidents and holocaust, case studies Nuclear accidents and holocaust, case studies
13th	1st	Population explosion- family welfare program Environment and human health: Environmental health, Climate health, Infectious diseases
	2nd	Environment and human health: Water-related diseases, Risk due to chemical

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		in food
	3rd	Human rights
	4th	Value education: environmental values, valuing nature, valuing cultures, social justice
14th	1st	Value education: Human heritage, Equitable use of resources, common property resources, ecological degradation
	2nd	Role of information technology in environment and human health.
	3rd	Role of information technology in environment and human health.
	4th	Previous year question answer discussion
15th	1st	DOUBT CLEARING CLASS
	2nd	DOUBT CLEARING CLASS
	3rd	DOUBT CLEARING CLASS
	4th	DOUBT CLEARING CLASS
16th	1st	DOUBT CLEARING CLASS
	2nd	DOUBT CLEARING CLASS
	3rd	DOUBT CLEARING CLASS
	4th	DOUBT CLEARING CLASS
17th	1st	DOUBT CLEARING CLASS
	2nd	DOUBT CLEARING CLASS
	3rd	DOUBT CLEARING CLASS
	4th	DOUBT CLEARING CLASS
18th	1st	Revision
	2nd	Revision
	3rd	Revision
	4th	Revision

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