Branch: ELECTRICAL	Semester: 3rd	Name of the Teaching Faculty: PRADEEP KUMAR MOHANTY
Subject: ENVIRONMENTAL STUDIES (Tb.5)	No. of days/per week class allotted:04	
Week	Class Day	Theory Topics
181	1 ST 2 ND	Multidisciplinary nature of environmental studies- Introduction,
	3 RD	Definition, Scope and importance
	4 TH	Need for public awareness
210	IST	Natural Resources: Renewable and non renewable resources Natural resources and associated problems.
	2 ND	Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction, mining, dams and their effects on
Sie Contalin	3 RD	forests and tribal people Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and
A HIONMINIAL	4TH per week	problems. . Mineral Resources: Use and exploitation, environmental effects of
I n Es Tasy	151	extracting and using mineral resources.
3100	1 notes 1 04	Food Resources: World food problems, changes caused by
Wet	Class Day	agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity
	2 ND	Energy Resources: Growing energy need, renewable and non- renewable energy sources, use of alternate energy sources, case
	3 RD	studies. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.
	4111	Role of individual in conservation of natural resources.
4 TH	151	Equitable use of resources for sustainable life styles
4	2 ND	Concept of an eco system.
	3 RD	Structure and function of an eco system.
	4 TH	Producers, consumers, decomposers.
5711	151	Energy flow in the eco systems
	2 ND	Ecological succession
	3 RD	Food chains, food webs and ecological pyramids
	4 TH	Introduction, types, characteristic features, structure and function of the following eco system
m	1st	Forest ecosystem
	Z ND	Aquatic eco systems (ponds, streams, lakes, rivers, oceans,
	3 RD	estuaries). Introduction-Definition: genetics, species and ecosystem diversity
	3 ^{KD} 4 TH	Biogeographically classification of India.
		Biogeographically classification of India.
The second secon	1ST	Value of biodiversity: consumptive use, productive use, social
	2 ND	ethical, aesthetic and option values.
		Biodiversity at global, national and local level
	3 RD	Threats to biodiversity
	4111	Habitats loss

8.11	121	poaching of wild life
	2 ND	man wildlife conflicts.
	3 RD	Definition Causes, effects and control measures of Environmental Pollution
	4 TH	Air pollution.
9111	1 ST	Water pollution
	2ND	Soil pollution
	3 RD	Marine pollution
	4111	Noise pollution
10 ^{TR}	151	Thermal pollution
	2 ND	Nuclear hazards
	3 RD	
	4111	Solid waste Management Causes, effects and control measures of urban
I)TH	151	and industrial wastes.
	2 2 2 2	Role of an individual in prevention of pollution
	3 RD	Disaster management: Floods, earth quake,
	4 TH	cyclone and landslides
	4	Social issues and the Environment:
12 TH	151	Form unsustainable to sustainable development.
		Urban problems related to energy
	2 ND	Water conservation, rain water harvesting, water shed management.
	3 RD	Resettlement and rehabilitation of people; its problems and concern
	4 TH	Environmental ethics: issue and possible solutions
13 TH	1 ST	Climate change global warming, acid rain
	2 ND	ozone layer depletion, nuclear accidents and holocaust, case studies.
	3 RD	Air (prevention and control of pollution) Act.
	4111	Water (prevention and control of pollution) Act
14 TH	IST	Public awareness.
of a decided to the control of the c	2 ND	Population growth and variation among nations.
	3 RD	Population explosion- family welfare program
11	4 ^{TR}	Environment and human health
15 TH	151	Human rights
	2 ND	Value education
	3 RD	Role of information technology in environment
	4111	Role of information technology in human health

P. Mohani Treaching Faculty

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