


DISCIPLINE – ELECTRICAL ENGG	SEMESTER 3rd	NAME OF THE TEACHING FACULTY- JYOTIRMAYEE SETHY, LECT(ELECT.)	
SUB-EVS	No Of Days Per Week Class Alloted-4	SEMESTER FROM 01.08.2023 TO 30.11.2023 NO OF WEEK – 15 WEEKS	
WEEK	CLASS DAY	THEORY	STATUS
1 ST WEEK	1 ST day 2 nd day 3 rd day 4 th day	<p>The Multidisciplinary nature of environmental studies:</p> <p>1.1 Definition, scope and importance.</p> <p>1.2 Need for public awareness.</p>	
2 nd WEEK	1 ST day 2 nd day 3 rd day 4 th day	<p>Natural Resources:</p> <p>Renewable and non renewable resources:</p> <p>2.1 Natural resources and associated problems.</p> <p>2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.</p> <p>2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.</p> <p>2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.</p>	
3 RD WEEK	1 ST day 2 nd day 3 rd day 4 th day	<p>2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,.</p> <p>2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studied.</p>	


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4 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	2.1.6. Land Resources Land as a resource, land degradation, man induces landslides, soil erosion, and desertification. 2.2. Role of individual in conservation of natural resources. 2.3. Equitable use of resources for sustainable lifestyles.	
5 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	Systems: 3.1. Concept of an ecosystem. 3.2. Structure and function of an ecosystem. 3.3. Producers, consumers, decomposers. 3.4. Energy flow in the ecosystems. 3.5. Ecological succession. 3.6. Food chains, food webs and ecological pyramids.	
6 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	3.8. Introduction, types, characteristic features, structure and function of the following ecosystem: 3.9. Forest ecosystem: Aquatic eco systems (ponds, streams, lakes, rivers, oceans,	
7 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	Biodiversity and its Conservation: 4.1. Introduction-Definition: genetics, species and ecosystem diversity. 4.2. Biogeographically classification of India. 4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values.	
8 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	4.4. Biodiversity at global, national and local level. 4.5. Threat to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts	
9 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	Environmental Pollution: 5.1. Definition Causes, effects and control measures of: 5.1.1 Air pollution. 5.1.2 Water pollution. 5.1.3 Soil pollution	
10 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	5.1.4 Marine pollution 5.1.5 Noise pollution. 5.1.6 Thermal pollution 5.1.7 Nuclear hazards.	

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11 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes. 5.3. Role of an individual in prevention of pollution. Disaster management: Floods, earth quake, cyclone and landslides.	
12 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	Social issues and the Environment: 6.1. Form unsustainable to sustainable development. 6.2. Urban problems related to energy. 6.3. Water conservation, rain water harvesting, water shed management. 6.4. Resettlement and rehabilitation of people; its problems and concern. 6.5. Environmental ethics: issue and possible solutions.	
13 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies. 6.7. Air (prevention and control of pollution) Act. 6.8. Water (prevention and control of pollution) Act. Public awareness.	
14 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	Human population and the environment: 7.1. Population growth and variation among nations. 7.2. Population explosion-family welfare program. 7.3. Environment and human health.	
15 TH WEEK	1 ST day 2 ND day 3 RD day 4 TH day	7.4. Human rights. 7.5. Value education 7.6. Role of information technology in environmental and human health.	

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