



UTKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

DISCIPLINE:	SEMESTER:	NAME OF THE TEACHING FACULTY: Er.Basanta Biswal	
All Branch	3 rd Sem		
SUBJECT: ENVIRONMENTAL STUDIES	No of Days/Per week class allotted: 4 Class P/W(60)	Semester From Date:15/09/2022 To Date:22/12/2022 No. Of Weeks: 15	
WEEK	CLASS DAY	THEORY TOPICS	REMARKS
1 st	1 st	The Multidisciplinary nature of environmental studies: Definition, scope and importance. ,Need for public awareness.	Date Dean/Principal
	2 nd	Natural resources and associated problems. ,. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.	
	3 rd	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.	
	4 th	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	
2 nd	1 st	Doubt clear class	
	2 nd	Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,.	
	3 rd	Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.	
	4 th	Assignment	
3 rd	1 st	Assignment question Discussion	
	2 nd	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.	
	3 rd	Role of individual in conservation of natural resources.	
	4 th	Equitable use of resources for sustainable life styles	
	1 st	Revision of last few class	

4 th	2 nd	Concept of an eco system., Structure and function of an eco system		
	3 rd	Producers, consumers, decomposers.		
	4 th	. Energy flow in the eco systems.		
5 th	1 st	Class Test		
	2 nd	Ecological succession. . Food chains, food webs and ecological pyramids		
	3 rd	Introduction, types, characteristic features, structure and function of the following eco system: Forest ecosystem:		
	4 th	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).		
6 th	1 st	Revision of Last Class		
	2 nd	Assignment		
	3 rd	Introduction-Definition: genetics, species and ecosystem diversity.		
	4 th	Biogeographically classification of India		
7 th	1 st	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values.		
	2 nd	Revision of Last class		
	3 rd	. Biodiversity at global, national and local level.		
	4 th	Assignment		
8 th	1 st	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.		
	2 nd	Definition Causes, effects and control measures of: Air pollution. Water pollution. Soil pollution		
	3 rd	Marine pollution . Noise pollution.		
	4 th	Doubt Clearing Class and Assignment Questions Discussion.		
9 th	1 st	Marine pollution, Noise pollution.		
	2 nd	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.		
	3 rd	Revision Class		
	4 th	Role of an individual in prevention of pollution		
10 th	1 st	Disaster management: Floods, earth quake, cyclone and landslides.		
	2 nd	Form unsustainable to sustainable development. Urban problems related to energy.		
	3 rd	Water conservation, rain water harvesting, water shed management		
	4 th	Resettlement and rehabilitation of people; its problems and concern.		

11 th	1 st	Environmental ethics: issue and possible solutions		
	2 nd	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.		
	3 rd	Air (prevention and control of pollution) Act.		
	4 th	Air (prevention and control of pollution) Act.		
12 th	1 st	Doubt Clear Class		
	2 nd	Water (prevention and control of pollution) Act.		
	3 rd	Assignment		
	4 th	Public awareness.		
13 th	1 st	Population growth and variation among nations		
	2 nd	Population explosion- family welfare program		
	3 rd	Assignment question Discussion		
	4 th	Environment and human health		
14 th	1 st	Last Class Discussion		
	2 nd	Human rights.		
	3 rd	Human rights.		
	4 th	Value education		
15 th	1 st	Class Test		
	2 nd	Internal question Discussion		
	3 rd	Role of information technology in environment and human health.		
	4 th	Discussion Sample paper question		

Jyotiprakash Swain

HOD

Chittaranjan Parida

DEAN

[Signature]

PRINCIPAL