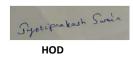


UTKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

DISCIPLINE:	SEMESTER:				
All Branch	3 rd Sem	NAME OF THE TEACHING FACULTY: Er.Basanta Biswal			
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	Semester From Date:15/09/2022 To Date:22/12/2022		
WEEK	CLASS DAY	THEORY TOPICS REMARKS		EMARKS	
1 st	1 st	The Multidisciplinary nature ofenvironmental 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	LandResources: Landasaresource, landdegradation, 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			

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

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