			GOVT POLYTECHNIC MAYURBHANJ		
LESSON PLAN					
			ACADEMIC YEAR 2023-24		
Discipline: Mechanical Engg.		Semester: 3rd sem	Name of the teaching Faculty: SAGAR KU. MOHAPATRA		
Subject: Enviromental Studies		No of Days/ Week class alloted (4)	Semester: From date: 01/08/2023 To Date: 30/11/2023		
MONTH	WEEK	CLASS DAY	TOPICS		
	1ST	2nd	Unit 1: The Multidisciplinary nature of environmental studies Definition, scope and importance		
		3rd	Definition, scope and importance, Need for public awareness.		
		4th	Unit 2: Natural Resources,Renewable and non renewable resources:Natural resources and associated problem		
		1ST	Renewable and non renewable resources:		
	2ND	2nd	Natural resources and associated problem		
		3rd	Forest resources: Use and over-exploitation, deforestation, case studies,		
		4th	Timber extraction mining, dams and their effects on forests and tribal people.		
AUGUST		1st	Water resources: Use and over-utilization of surface and ground water		
ายเ	3RD	3rd	floods, drought, conflicts over water, dam's benefits and problems		
AU		4th	Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.		
		1ST	Food Resources: World food problems ,changes caused by agriculture		
	4TH	2nd	Overgrazing, effects of modernagriculture, fertilizers pesticides problems, water logging, salinity,		
	41П	3rd	Energy Resources: Growing energy need		
	-	4th	renewable and non renewable energy sources, use of alternate energy sources, case studies		
•		1st	Land Resources: Land as a resource ,land degradation ,man induces landslides, soil erosion, and desertification.		
	5th	2nd	Role of individual in conservation of natural resources		
		4th	Equitable use of resources for sustainable lifestyles.		
	2115	1st	REVISION		
	2ND	2nd	CLASS TEST-1		
		4th	Unit 3: Systems, Concept of an ecosystem		
	3RD	1ST	Concept of an ecosystem		
2		2nd	Structure and function of an ecosystem.		
ΔBI	טאט	3rd	Producers, consumers, decomposers.		
SEPTEMBER		4th	Energy flow in the ecosystems.		
Ë	4	1st	Ecological succession.		
0,	4TH	4th	Food chains, food web sand ecological pyramids.		
•		1st	Introduction, types, characteristic features, structure and function of the following ecosystem:		
	5TH	2nd	Forest ecosystem:		
		3rd	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries		
		4th	REVISION		
	1ST	2nd	Unit 4: Biodiversity and it's Conservation; Introduction-Definition: genetics, species		
		3rd	Introduction-Definition: genetics, species and ecosystem diversity.		
		4th	Biogeographically classification of India		
-		1st	INTERNAL EXAM		
	ŀ	2nd	Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and opt in values.		
	2ND -	3rd	Biodiversity at global, national and local level.		
		4th	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.		
		401	Threats to should stry. Habitats 1033, poaching of what he, first whathe conflicts.		

OCTOBER	3RD	1st	Unit 5: Environmental Pollution. Definition Causes, effects and control measures of: Air pollution.			
		2nd	Definition Causes, effects and control measures of: Air pollution. Water pollution.			
		3rd	Soil pollution , Marine pollution			
		4th	Noise pollution,Thermal pollution			
	4TH -	3rd	Nuclear hazards.			
		4th	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.			
		1st	Role of an individual in prevention of pollution			
	5TH	2nd	Disaster management: Floods, earth quake, cyclone and landslides.			
	1ST	3rd	Unit 6: Social issues and the Environment. Introduction			
	131	4th	unsustainable to sustainable development			
		1st	Urban problems related to energy			
		2nd	Water conservation, rain water harvesting, water shed management			
	2ND	3rd	Resettlement and rehabilitation of people; its problems and concern.			
		4th	Environmental ethics: issue and possible solutions.			
3ER	3RD	1st	Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.			
Ξ		2nd	Air (prevention and control of pollution) Act.			
NOVEMBER		3rd	Water (prevention and control of pollution) Act			
Z		4th	Public awareness.			
	4TH -	1st	Unit 7: Human population and the environment. Introduction			
		2nd	Population growth and variation among nations			
		3rd	Population explosion-family welfare program			
		4th	Environment and human health.			
	5TH	2nd	Human rights.			
		3rd	Value education ,Role of information technology in environment and human health.			
		4th	CLASS TEST-2			

HOD, Mechanical Govt. polytechnic Mayurbhanj

Subject Expert Govt. polytechnic Mayurbhanj Academic Co-ordinator Govt. polytechnic Mayurbhanj

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