

GOVT. POLYTECHNIC MAYURBHANJ LESSON PLAN

Discipline :		Semester: 3rd Sem		Name of the Teaching Faculty : RAJESH KUMAR SAHOO	
Subject : ES		No. of Days / per week class allotted : 04		Semester From date : 01.08.2023	To Date : 30.11.2023
MONTH	Week	Day	UNIT	Topics	
AUGUST	1ST	2ND	UNIT-1	The Multidisciplinary nature of environmental studies	
		3RD		Definition, scope and importance	
		5TH		Need for public awareness	
	2ND		UNIT-2	Natural Resources	
		1ST		Forest resources: Use and over-exploitation, deforestation, case studies.	
		2ND		Timber extraction mining, dams and their effects on forests and tribal people.	
		3RD		Water resources: Use and over-utilization of surface and ground water	
		5TH		Floods, drought, conflicts over water, dam's benefits and problems	
	3RD	1ST		Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.	
		2ND		INDEPENDENCE DAY	
		3RD		Food Resources: World food problems, changes caused by agriculture and over grazing.	
		5TH		Effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity.	
	4th	1ST		Class Test-1	
		2ND		Energy Resources: Growing energy need, renewable and non-renewable energy sources.	
		3RD		Use of alternate energy sources, case studies. Land Resources: Landasa resource, land degradation	
		5TH		Man induces landslides, soil erosion, and desertification.	
	5th	1ST		Role of individual in conservation of natural resources. Equitable use of resources for sustainable life styles.	
		2ND	UNIT-3	Systems: Concept of an eco system.	
		3RD		JHULANA PURNIMA	
		4TH		Structure and function of an eco system.	
SEPTEMBER	1ST	5TH		Producers, consumers, decomposers. Energy flow in the eco systems.	
	2ND	1ST		Ecological succession. Food chains, food webs and ecological pyramids.	
		2ND		Forest ecosystem: Introduction, types, characteristic features.	
		3RD		JANMASTAMI	
		5TH		Structure and function of Forest ecosystem.	
	3RD	1ST		Aquatic eco systems (ponds, streams, lakes) Introduction, types, characteristic features.	
		2ND		GANESH PUJA	
		3RD		NUAKHAI	
		5TH		Rivers, ocean, sestuaries Introduction, types, characteristic features.	
		1ST	UNIT-4	Biodiversity and it's Conservation:	

	4th	2ND		Introduction-Definition: genetics, species and ecosystem diversity.
		3RD		Biogeographically classification of India.
		5TH		Value of biodiversity: consumptive use, productive use.
	5TH	1ST		social ethical, aesthetic and optin values.
		2ND		Rash purnima(holiday)
		3RD		Biodiversity at global, national and local level
	OCTOBER	2ND		Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.
		1ST	UNIT-5	Environmental Pollution:
		3RD		Air pollution-Definition Causes, effects and control measures.
		5TH		Water pollution-Definition Causes, effects and control measures.
		2ND	1ST	Soil pollution-Definition Causes, effects and control measures.
			2ND	Marine pollution-Definition Causes, effects and control measures.
			3RD	Noise pollution.-Definition Causes, effects and control measures.
			5TH	Thermal pollution-Definition Causes, effects and control measures.
		3RD	1ST	Nuclear hazards-Definition Causes, effects and control measures.
			2ND	Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
			3RD	Role of an individual in prevention of pollution.
			5TH	Disaster management: Floods, earth quake, cyclone and landslides.
		4th	UNIT-6	Social issues and the Environment:
		3RD		Form unsustainable to sustainable development.Urban problems related to energy.
		5TH		Water conservation, rain water harvesting, water shed management.
		5th	1ST	Resettlement and rehabilitation of people; its problems and concern.
			2ND	Environmental ethics: issue and possible solutions -Climate change, global warming, acid rain, ozone layer
NOVEMBER	1ST	3RD		nuclear accidents and holocaust, case studies.
		5TH		Air (prevention and control of pollution) Act. Water (prevention and control of pollution) Act.Public awareness.
		1ST		Class Test-2
	2ND		UNIT-7	Human population and the environment:
		2ND		Population growth and variation among nations
		3RD		Population explosion- family welfare program.
		5TH		Environment and humanhealth
	3RD	1ST		Human rights
		2ND		Value education
		3RD		Role of information technology in environment and human health.
		5th		RIVISION
	4th	1ST		RIVISION
		2ND		RIVISION

		3RD		RIVISION
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