

GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT OF METALLURGICAL ENGINEERING

LESSON PLAN

Discipline Metallurgy	Semester 3 rd	Name of teaching faculty: <u>Smriti Sangita Sahu (P.T. G.P.)</u>
Subject EVS	No day/ week class: 4	No of week: 15 Session: Winter 2023 Dt: <u>1/08/23</u> to <u>30/11/23</u>
Week	Class Day	Topic
1st	1st	Unit-1 :- Definition & Scope And Importance of Environmental studies, Need for Public Awareness
	2nd	Unit-2 :- Natural Resources - Use and over-exploitation of Forest Resources, Deforestation.
	3rd	Dams and their effects on Forests and Tribal People
	4th	Use & Over Utilization of Surface and Ground Water.
2nd	1st	Drought and conflicts over water, Dam's benefits
	2nd	Dam's Problems, Mineral Resources
	3rd	Food Resources and changes caused by agriculture, Effects
	4th	Fertilizers - Pesticides Problems, Water Logging, Salinity
3rd	1st	Energy Resources :- Renewable and non-renewable Energy
	2nd	Land resources and land degradation
	3rd	Land slide, soil erosion and desertification
	4th	Role of individual in conservation of natural resources
4th	1st	Unit 3 :- Systems: Concept of an ecosystem.
	2nd	Structure and Function of an ecosystem.
	3rd	Producers, Consumers, Decomposers.
	4th	Energy Flow in the ecosystems.
5th	1st	Ecological Succession, Food chains, Food webs
	2nd	Ecological Pyramids.
	3rd	Forest ecosystem, Pond Ecosystems.
	4th	River Ecosystems, Lake Ecosystems.
6th	1st	Stream Ecosystems
	2nd	Assignment checking and Quiz Test
	3rd	Revision and Doubt clearing.
	4th	Class Test-1
7th	1st	Unit-4 :- Biodiversity and its conservation
	2nd	Introduction & Definition.
	3rd	Genetics, Species and ecosystem diversity
	4th	Biogeographically classification of India
8th	1st	Value of biodiversity: consumptive & productive Use
	2nd	Social ethical, Aesthetic and option values
	3rd	Biodiversity at global, National and local level
	4th	Threats of biodiversity: Habitats loss
		Poaching of wild life, Man wild life conflicts.

9th	1st	Unit 5 :- Environmental Pollution :
	2nd	Air Pollution
	3rd	causes & Remedies of Air Pollution.
	4th	causes & Remedies of water pollution.
10th	1st	causes & Remedies of Soil pollution.
	2nd	causes & Remedies of Marine pollution.
	3rd	causes & Remedies of Noise pollution.
	4th	causes & Remedies of thermal pollution.
11th	1st	Nuclear Hazards
	2nd	Quix Test
	3rd	Doubt clearing
	4th	class Test 2
12th	1st	Solid waste Management : Causes and Effects
	2nd	Control measures of urban & Industrial wastes
	3rd	Role of an individual in prevention of pollution.
	4th	Disaster management : Floods & Earthquake
13th	1st	Cyclone and Landslides.
	2nd	Unit 6 :- Social issues and the environmental
	3rd	Unsustainable & Sustainable.
	4th	Water conservation, Rain water harvesting, water shed
14th	1st	Resettlement and rehabilitation of people.
	2nd	Global warming, Acid rain, Ozone layer depletion,
	3rd	Nuclear Accidents and Holocaust.
	4th	Air (Prevention and control of pollution) Act.
15th	1st	Water (Prevention and control of pollution) Act.
	2nd	Public Awareness
	3rd	Human population And the Environment : Population
	4th	growth and population
16th	1st	Value of education & Human Rights
	2nd	Role of information Technology in environment
	3rd	and human health.
	4th	Revision and selection Questions in exam point of view
17th	1st	Discussion Previous year Questions.
	2nd	
	3rd	
	4th	

Smnuti S. Sahu
Signature of faculty