

GOVERNMENT POLYTECHNIC JAJPUR

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Discipline: Metallurgy	Semester: 3rd	Name of the Teaching faculty: P ARADHANA
Subject: Environmental studies	No of Days/Week class allotted: 4	Semester from Date: 1/7/24 To Date: 8/11/24 No of weeks: 16
Week	Class Day	Topics
1st	1 st	Unit 1: Definition & Scope And Importance Of Environmental Studies
	2 nd	Need For Public Awareness
	3 rd	Unit 2: Natural Resources: Use And Over-Exploitation Of Forest Resources, Deforestation
	4 th	Dams And Their Effects On Forests And Tribal People
2nd	1 st	Use & Over Utilization Of Surface & Ground Water
	2 nd	Drought & Conflicts Over Water, Dam's Benefits And Problems.
	3 rd	Mineral Resources
	4 th	Food Resources & Changes Caused by agriculture and over grazing, Effects of modern agriculture,
3rd	1 st	Fertilizers- Pesticides Problems, Water Logging, Salinity.
	2 nd	Energy Resources: Renewable And non-Renewable Energy Sources
	3 rd	land resources & land degradation
	4 th	land slide, soil erosion & desertification
4th	1 st	Role of individual in conservation of natural resources.
	2 nd	Unit 3: Systems: Concept of an ecosystem
	3 rd	Structure of an ecosystem.
	4 th	Function of an ecosystem.
5th	1 st	Producers, Consumers, Decomposers.
	2 nd	Energy flow in the ecosystems
	3 rd	Ecological succession, Food chains, Food webs
	4 th	Ecological pyramids.
6th	1 st	Forest ecosystem
	2 nd	Pond Ecosystems
	3 rd	River Ecosystems
	4 th	Lake Ecosystems
7th	1 st	Stream Ecosystems
	2 nd	Unit 4: Biodiversity and it's conservation: Introduction- Definition
	3 rd	Genetics, Species and ecosystem diversity

	4 th	Biogeographically classification of india
8th	1 st	Value of biodiversity: Consumptive use, Productive use Values
	2 nd	Social ethical, Aesthetic And option values
	3 rd	Biodiversity at global, National and local level.
	4 th	Biodiversity at global, National and local level.
9th	1 st	Threats of biodiversity: Habitats loss
	2 nd	Poaching of wild life, Man wild life Conflicts.
	3 rd	Environmental pollution: Air pollution.
	4 th	Causes & Remedies Of Air pollution.
10th	1 st	Causes & Remedies Of water pollution.
	2 nd	Causes & Remedies Of water pollution.
	3 rd	Causes & Remedies Of Soil pollution
	4 th	Causes & Remedies Of Soil pollution
11th	1 st	Causes & Remedies Of Marine pollution
	2 nd	Causes & Remedies Of Marine pollution
	3 rd	Causes & Remedies Of Noise pollution.
	4 th	Causes & Remedies Of Noise pollution.
12th	1 st	Causes & Remedies Of thermal pollution
	2 nd	Causes & Remedies Of thermal pollution
	3 rd	Nuclear hazards
	4 th	Nuclear hazards
13th	1 st	Solid waste management: Causes And Effects
	2 nd	Control measures of urban and Industrial Wastes
	3 rd	Role of an individual in prevention of pollution.
	4 th	Disaster management: Floods & Earthquake
14th	1 st	Cyclone and landslides.
	2 nd	Unit6: Social issues and the environment: Unsustainable & Sustainable development.
	3 rd	Water conservation, Rain water harvesting, Water shed management.
	4 th	Resettlement and rehabilitation of people
15th	1 st	Global warming, Acid rain, Ozone layer depletion, Nuclear Accidents And Holocaust
	2 nd	Air (Prevention and control of pollution) Act.
	3 rd	Water (Prevention and control of pollution) Act.
	4 th	Public awareness.
16th	1 st	Human population And the Environment: Population growth and population explosion-Family Welfare program.
	2 nd	Value Of education & Human Rights
	3 rd	Role of information technology in environment and human health.
	4 th	Revision

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17/12/24