

GOVERNMENT POLYTECHNIC JAJPUR

A/ P: Ragadi, Block: Korei, Dist.: Jajpur, Odisha- 755019

Website: <https://www.gpjajpur.org> E-mail: principalgpjajpur@yahoo.co.in Contact: 9437155107

DEPARTMENT OF MINING ENGINEERING

LESSON PLAN

Discipline: MINING	Semester: 3rd	Name of the Teaching faculty: Malaya Ranjan Jena
Subject: ENVIRONMENTAL STUDIES	No of Days/Week class allotted: 4	Semester from Date: 1/10/21 To Date: 31/1/22 No of weeks: 15
Week	Class Day	Topics
1st	1st	The Multidisciplinary nature of environmental studies:
	2nd	The Multidisciplinary nature of environmental studies:
	3rd	Forest resources: Use and over-exploitation, deforestation, case studies.
	4th	Timber extraction mining, dams and their effects on forests and tribal people.
2nd	1st	Water resources.
	2nd	Mineral Resources: Use and exploitation.
	3rd	Environmental effects of extracting and using mineral resources.
	4th	Food Resources: World food problems, changes caused by agriculture
3rd	1st	Effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity.
	2nd	Energy Resources: Growing energy need, renewable and non-renewable energy sources.
	3rd	use of alternate energy sources, case studies.
	4th	Land Resources: Land as a resource, land degradation, man induces landslides
4th	1st	Soil erosion, and desertification.
	2nd	Role of individual in conservation of natural resources
	3rd	Equitable use of resources for sustainable life styles.
	4th	Concept of an eco system.
5th	1st	Structure and function of an eco system.
	2nd	Producers, consumers, decomposers.
	3rd	Energy flow in the eco systems.
	4th	Ecological succession.
6th	1st	Food chains, food webs
	2nd	Ecological pyramids.
	3rd	Forest ecosystem.
	4th	CLASS TEST 1, Previous year questions, quiz test
7th	1st	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
	2nd	Introduction-Definition: genetics, species and ecosystem diversity.
	3rd	Biogeographically classification of India.
	4th	Value of biodiversity: consumptive use, productive use,

8th	1st	social ethical, aesthetic and optin values.
	2nd	Biodiversity at global national and local level.
	3rd	Threats to biodiversity: Habitats loss.
	4th	Poaching of wild life, man wildlife conflicts.
9th	1st	Definition Causes, effects and control measures of: Air pollution
	2nd	Definition Causes, effects and control measures of: Water pollution.
	3rd	Definition Causes, effects and control measures of:. Soil pollution
	4th	Definition Causes, effects and control measures of :Marine pollution
10th	1st	Definition Causes, effects and control measures of: Noise pollution.
	2nd	Definition Causes, effects and control measures of: Thermal pollution
	3rd	Definition Causes, effects and control measures of: Nuclear hazards.
	4th	Solid waste Management: Causes, effects and control measures of urban
11th	1st	Solid waste Management: industrial wastes.
	2nd	Role of an individual in prevention of pollution.
	3rd	Disaster management: Floods, earth quake, cyclone and landslides.
	4th	Form unsustainable to sustainable development.
12th	1st	Urban problems related to energy.
	2nd	Water conservation, rain water harvesting, water shed management.
	3rd	Resettlement and rehabilitation of people; its problems and concern.
	4th	CLASS TEST 2, Previous year questions, quiz
13th	1st	Environmental ethics: issue and possible solutions.
	2nd	Climate change, global warming, acid rain.
	3rd	Ozone layer depletion, nuclear accidents and holocaust, case studies.
	4th	Air (prevention and control of pollution) Act.
14th	1st	Water (prevention and control of pollution) Act.
	2nd	Public awareness.
	3rd	Population growth and variation among nations.
	4th	Population explosion- family welfare program
15th	1st	Environment and human health.Human rights.Value education
	2nd	Role of information technology in environment and human health.
	3rd	previous year question disscussion
	4th	Previuos year questions, quiz

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