GOVERNMENT POLYTECHNIC JAJPUR

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		DEPARTMENT OF MINING ENGINEERING
Discipline:		LESSON PLAN
MINING	Semester: 3rd	
Subject:	No of	Name of the Teaching faculty: Malaya Ranjan Jer
ENVIRON	Days/Week	Semester from Date: 15/09/22
MENTAL		NO Of Weeks: 15
Week	class alloted: 4 Class Day	
		Topics
1st	1	The Multidisciplinary nature of environmental studies:
	2	Forest resources: Use and over-exploitation, deforestation, case studies.
	3rd	Timber extraction mining, dams and their effects on forests and tribal people.
	4th	Water resources.
2nd	1st	Mineral Resources: Use and exploitation.
	2nd	Environmental effects of outroaction
	3rd	Environmental effects of extracting and using mineral resources.
	4th	Food Resources: World food problems, changes caused by agriculture Effects of modern agriculture, fertilizers- pesticides problems, water
	1st	logging, salinity. Energy Resources: Growing energy need, renewable and non-renewable
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3rd	2nd	use of alternate energy sources, case studies.
	3rd	Land Resources: Land as a resource, land degradation man induces
		landshues
	4th	Soil erosion, and desertification.
	1st	Role of individual in conservation of natural resources
4th	2nd	Equitable use of resources for sustainable life styles
-	3rd	CLASS TEST-I
5th	4th	Concept of an eco system.
	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	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
7th	1st	Introduction-Definition: genetics, species and ecosystem diversity
	2nd	Biogeographically classification of India.
	3rd	Value of biodiversity: consumptive use, productive use,
	4th	social ethical, aesthetic and optin values.
8th	1st	Biodiversity at global national and local level.
	2nd	INTERNAL-I
	3rd	Threats to biodiversity: Habitats loss.
	4th	Poaching of wild life, man wildlife conflicts.
	1st	Definition Causes, effects and control measures of: Air pollution

▼ V OIL	2nd	Definition Courses ofference in the second of Weter collution		
9th	3rd	Definition Causes, effects and control measures of: Water pollution.		
	4th	Definition Causes, effects and control measures of: Soil pollution		
10th	1st	Definition Causes, effects and control measures of:Marine pollution		
	2nd	Definition Causes, effects and control measures of: Noise pollution.		
		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.		
	1st	CLASS TEST-II		
12th	2nd	Urban problems related to energy.		
	3rd	Water conservation, rain water harvesting, water shed management.		
	4th	Resettlement and rehabilitation of people; its problems and concern.		
	1st	Environmental ethics: issue and possible solutions.		
13th	2nd	Climate change, global warming, acid rain.		
1500	3rd	Ozone layer depletion, nuclear accidents and holocaust, case studies.		
	4th	Air (prevention and control of pollution) Act.		
	1st	Water (prevention and control of pollution) Act.Public awareness.		
		Population growth and variation among nations.		
	2nd	Population explosion- family welfare program.		
14th		Environment and human health.Human rights.Value education.		
		Role of information technology in environment and human health.		
	3rd	INTERNAL-II		
	4th	REVISION/DOUBT CLEARING CLASS		
15th	1st	REVISION/DOUBT CLEARING CLASS		
	2nd	REVISION/DOUBT CLEARING CLASS		
	3rd	REVISION/DOUBT CLEARING CLASS		
	4th	REVISION/DOUBT CLEARING CLASS		
Learning Resources:				
SI.No	Title of the Book	Name of Authors		
1	Textbook of Environme ntal studies	Erach Bharucha		
	Fundamental concepts			
2	in Environmental Studies	D.D. Mishra,S.Chand		
	Text book of			
3	Environmental	K Dankauan Namkian		
		K.Raghavan Nambiar		
4	Environmental	V M Domkundurer Dhennet Bail & Ca		
	Engineering	V.M.Domkundwar,Dhanpat Rai & Co		

Malaya Ranim for a Signature of Faculty