GOVERNMENT POLYTECHNIC JAJPUR

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		DEPARTMENT OF MINING ENGINEERING			
		LESSON PLAN			
Discipline: Semester:		Name of the Teaching faculty: SOMESH JENA			
Subject: ENVIRON MENTAL STUDIES	No of Days/Week class alloted: 4	Semester from Date: 01/08/23 To Date: 30/11/23 No of weeks: 15			
Week	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.			
	1st	Mineral Resources: Use and exploitation.			
**	2nd	Environmental effects of extracting and using mineral resources.			
2nd	3rd	Food Resources: World food problems, changes caused by agriculture			
	4th	Effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity.			
	1st	Energy Resources: Growing energy need, renewable and non-renewable energy sources.			
3rd	2nd	use of alternate energy sources, case studies.			
and and hardward	3rd	Land Resources: Land as a resource, land degradation, man induces landslides			
	4th	Soil erosion, and desertification.			
4th	1st	Role of individual in conservation of natural resources			
	2nd	Equitable use of resources for sustainable life styles.			
	3rd	CLASS TEST-I			
	4th	Concept of an eco system.			
	1st	Structure and function of an eco system.			
5th	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	Áquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).			

1	Textbook of Environme ntal studies	Erach Bharucha		
SI.No	Title of the Book	Name of Authors		
Cl No	Tal. 60 - :	Learning Resources:		
	4th	REVISION/DOUBT CLEARING CLASS		
145000000000000000000000000000000000000	3rd	REVISION/DOUBT CLEARING CLASS		
15th	2nd	REVISION/DOUBT CLEARING CLASS		
	1st	REVISION/DOUBT CLEARING CLASS		
	4th	REVISION/DOUBT CLEARING CLASS		
2	3rd	INTERNAL-II		
		Role of information technology in environment and human health.		
14th	1st 2nd	Environment and human health. Human rights. Value education.		
200		Population explosion- family welfare program.		
		Population growth and variation among nations.		
		Water (prevention and control of pollution) Act. Public awareness.		
-	4th	Air (prevention and control of pollution) Act.		
	3rd [*]	Ozone layer depletion, nuclear accidents and holocaust, case studies.		
13th	2nd	Climate change, global warming, acid rain.		
	1st	Environmental ethics: issue and possible solutions.		
	4th	Resettlement and rehabilitation of people; its problems and concern.		
1201	3rd	Water conservation, rain water harvesting, water shed management.		
12th	2nd	Urban problems related to energy.		
	1st	CLASS TEST-II		
	4th	Form unsustainable to sustainable development.		
11 (1)	3rd	Disaster management: Floods, earth quake, cyclone and landslides.		
11th	2nd	Role of an individual in prevention of pollution.		
	1st	Solid waste Management: industrial wastes.		
4	4th	Solid waste Management: Causes, effects and control measures of urban		
10th	3rd	Definition Causes, effects and control measures of: Nuclear hazards.		
	2nd	Definition Causes, effects and control measures of: Thermal pollution		
	1st	Definition Causes, effects and control measures of: Noise pollution.		
9th	4th	Definition Causes, effects and control measures of:Marine pollution		
	3rd	Definition Causes, effects and control measures of:.Soil pollution		
	2nd	Definition Causes, effects and control measures of: Water pollution.		
	1st	Definition Causes, effects and control measures of: Air pollution		
8th	4th	Poaching of wild life, man wildlife conflicts.		
	3rd	Threats to biodiversity: Habitats loss.		
	2nd	INTERNAL-I		
	1st	Biodiversity at global national and local level.		
7th	4th	social ethical, aesthetic and optin values.		
	3rd	Value of biodiversity: consumptive use, productive use,		
	2nd	Biogeographically classification of India.		
	1st	Introduction-Definition: genetics, species and ecosystem diversity.		

2	Fundamental concepts in Environmental Studies	D.D. Mishra,S.Chand	
3	Text book of Environmental Studies	K.Raghavan Nambiar	2
4	Environmental Engineering	V.M.Domkundwar,Dhanpat Rai & Co	

Somesh Jena Signature of Faculty