GOVT. POLYTECHNIC BOLANGIR LESSON PLAN				
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Discipline :	Semester:	Name of the Teaching Faculty : Abraham Sabar		
Subject : Environmental	No. of Days /	Semester From date: 15.09.2022 To Date: 22.12.2022		
Studies	per week			
Week	Class Day	Topics		
1ST	1st	The Multidisciplinary nature of environmental studies: Definition,		
	2nd	scope		
	3rd	and importance.		
	4th	1.2 Need for public awareness.		
2ND		2.Natural Resources:		
	1st	Renewable and non renewable resources: 2.1 Natural resources and associated problems.		
	2nd	2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies,		
	3rd	Timber extraction mining, dams and their effects on forests and tribal people.		
	4th	2.1.2. Water resources: Use and over-utilization of surface and ground water, floods,		
	1st	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and usin mineral resources. 2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing		
	2nd	effects of modern agriculture, fertilizers- pesticides problems,		
3RD		water logging, salinity,		
	3rd	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources,		
	4th	2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides,		
4TH	1st	2.2 Role of individual in conservation of natural resources.		
	2nd	2.3 Equitable use of resources for sustainable life styles.		
	3rd	3.Systems:		
		3.1. Concept of an eco system.		
	4th	3.2. Structure and function of an eco system.		
STH	1st	3.3. Producers, consumers, decomposers.		
	2nd	3.4. Energy flow in the eco systems.		
	3rd	3.5. Ecological succession.		
	4th	3.6. Food chains, food webs and ecological pyramids.		
6ТН	1st	3.7. Introduction, types, characteristic features, structure and function of the following eco system:		
	2nd	3.8. Forest ecosystem: 3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries)		
	3rd	4 Biodiversity and it's Conservation: 4.1. Introduction		
	4th	Definition: genetics, species and ecosystem diversity.		
7ТН	1st	Value of biodiversity: consumptive use, productive use,		
	2nd	social ethical, aesthetic and optin values.		
	3rd	Biodiversity at global, national and local level.		
	4th	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.		
		Unit 5: Environmental Pollution.		
	1st	Definition Causes, effects and control measures of:		
		a) Air pollution.b) Water pollution.		

	2nd	c) Soil pollution d) Marine pollution e) Noise pollution.
8TH		f) Thermal pollution g) Nuclear hazards Solid waste Management: Causes, effects
	3rd	and control measures of urban and
		industrial wastes.
	4th	Role of an individual in prevention of pollution. Disaster management: Flood, earth
	4111	quake, cyclone and landslides.
9th	1st	Disaster management: Floods,
		earth quake, cyclone and landslides.
		Unit 6: Social issues and the Environment
	2nd	Form unsustainable to sustainable development. Value of biodiversity: consumptive
		use, productive use,
		Water conservation, rain water
		harvesting, water shed management.
	3rd	
		Resettlement and rehabilitation
		of people; its problems nd concern.
		Environmental ethics: issue and possible solutions.
		Climate change, global warming, acid rain, ozone layer depletion,
	4th	nuclear accidents and holocaust, case studies.
10TH	1.	Air (prevention and control of pollution) Act. Water (prevention and control of
	1st	pollution) Act.Public awareness.
		Unit 7: Human population and the environment
	2nd	Population growth and variation among nations. Population explosion-family
		welfare program.
	3rd	Environment and human health.
		Human rights.
	4th	Value education.Role of information technology in
		environment and human health.