

### LESSON PLAN FOR SUMMER SESSION (2022-23)


<b>PROGRAMME : CIVIL ENGINEERING</b>			<b>NAME OF THE FACULTY: HARAPRIYA BADANAYAK</b>			
<b>COURSE NAME : ENVIRONMENTAL STUDIES</b>			<b>SESSION : 2022-23</b>			
<b>COURSE CODE : TH.5</b>			<b>DATE : 15/09/22 To 22/12/22</b>			
<b>SEMESTER : 3rd</b>						
<b>PERIODS/WEEK: 4</b>						
<b>TOTAL PERIODS:32</b>						
WEEK	PERIODS	UNIT	TOPICS			
Sept. 3rd Week	1	1	1. The Multidisciplinary nature of environmental studies Definition, scope and importance.			
	2		The Multidisciplinary nature of environmental studies Need for public awareness.			
	3	2	2. Natural Resources, Renewable and non renewable resources, Natural resources and associated problems			
	4		Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.			
Sept. 4th Week	1	2	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.			
	2		Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.			
	3	2	Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity			
	4		Energy Resources: Growing energy need, renewable and non renewable energy sources, use of alternate energy sources, case studies.			
Oct. 1st Week	1		<b>PUJA VACATION</b>			
	2					
	3					
	4					
Oct. 2nd Week	1	2	Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.			
	2		Role of individual in conservation of natural resources.			
	3		Equitable use of resources for sustainable life styles.			
	4	3	3. Systems <input type="checkbox"/> Concept of an eco system.			
1	<input type="checkbox"/> Structure and function of an eco system. <input type="checkbox"/> Producers, consumers, decomposers.					
2	<input type="checkbox"/> Energy flow in the eco systems.					
3	<input type="checkbox"/> Ecological succession. <input type="checkbox"/> Food chains, food webs and ecological pyramids.					
Oct. 3rd Week	4	3	<input type="checkbox"/> Introduction, types, characteristic features, structure and function of the following eco system:			
	1		<input type="checkbox"/> Forest ecosystem: <input type="checkbox"/> Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).			
	2		4	4. Biodiversity and its Conservation <input type="checkbox"/> Introduction-Definition: genetics, species and ecosystem diversity.		
	3			<input type="checkbox"/> Biogeographically classification of India.		
4	<input type="checkbox"/> Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values.					

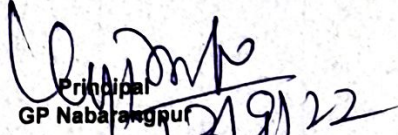


Nov. 1st Week	1	5	<input type="checkbox"/> Biodiversity at global, national and local level.	
	2		<input type="checkbox"/> Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts.	
	3		<b>5. Environmental Pollution.</b> Definition Causes, effects and control measures of:	
	4		a) Air pollution.	
Nov. 2nd Week	1		b) Water pollution.	
	2		c) Soil pollution	
	3		d) Marine pollution	
	4		e) Noise pollution.	
Nov. 3rd Week	1		f) Thermal pollution	
	2		g) Nuclear hazards.	
	3		Solid waste Management: Causes, effects and control measures of urban and industrial wastes.	
	4		Role of an individual in prevention of pollution.	
Nov. 4th Week	1	6	Disaster management: Floods, earth quake, cyclone and landslides.	
	2		<b>6. Social issues and the Environment</b>	
	3		<input type="checkbox"/> Form unsustainable to sustainable development.	
	4		<input type="checkbox"/> Urban problems related to energy.	
Dec. 1st Week	1		<input type="checkbox"/> Water conservation, rain water harvesting, water shed management.	
	2		<input type="checkbox"/> Resettlement and rehabilitation of people; its problems and concern.	
	3		<input type="checkbox"/> Environmental ethics: issue and possible solutions.	
	4		<input type="checkbox"/> Climatechange, globalwarming,acidrain,ozonelayerdepletion, nuclear accidents and holocaust, case studies.	
Dec. 2nd Week	1		7	<input type="checkbox"/> Air (prevention and control of pollution) Act.
	2			<input type="checkbox"/> Water (prevention and control of pollution) Act.
	3			<input type="checkbox"/> Public awareness.
	4			<b>7. Human population and the environment</b>
Dec. 3rd Week	1	<input type="checkbox"/> Population growth and variation among nations.		
	2	<input type="checkbox"/> Population explosion- family welfare program.		
	3	<input type="checkbox"/> Environment and humanhealth.		
	4	<input type="checkbox"/> Human rights.		
Dec. 3rd Week	1	<input type="checkbox"/> Value education		
	2	<input type="checkbox"/> Role of information technology in environment and human health.		
	3	<b>Doubt Clearing Class</b>		
	4	<b>Doubt Clearing Class</b>		
Dec. 3rd Week	1	<b>Doubt Clearing Class</b>		
	2	<b>Doubt Clearing Class</b>		
	3	<b>Previous year question Paper discussion.</b>		
	4	<b>Previous year question Paper discussion.</b>		

  
31/9/22  
Concern faculty  
Signature

  
13.9.22  
HOD  
Civil engineering

  
31/9/22  
Academic Coordinator  
GP Nabarangpur

  
31/9/22  
Principal  
GP Nabarangpur