


SYNERGY POLYTECHNIC, BBSR

The Lesson Plan		
Discipline:	Semester: 1 st 3 rd	Name of the Teaching Faculty: Dr. J. Rout , Mr. Aditya
Subject: Environmental	No of Days/per week class allotted:	Semester from Date: 16.8.23 to Date: 11.12.23 No of Weeks:
Week	Class Day	
1st	1st	The Multidisciplinary nature of environmental studies
	2nd	Definition, scope and importance, Need for public awareness.
	3rd	The Multidisciplinary nature of environmental studies
	4th	Definition, scope and importance, Need for public awareness.
	5th	Natural Resources
2nd	1st	Renewable and Non Renewable Resources
	2nd	Natural resources and associated problems.
	3rd	Forest resources: Use and over-exploitation, deforestation, case studies,
	4th	Timber extraction mining, dams and their effects on forests and tribal people.
	5th	<input type="checkbox"/> Water resources: Use and over-utilization of surface and ground water,
3rd	1st	floods, drought, conflicts over water, dam's benefits and problems.
	2nd	<input type="checkbox"/> Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
	3rd	<input type="checkbox"/> Food Resources: world food problems, changes caused by agriculture and over grazing, effects of modern agriculture,
	4th	fertilizers- pesticides problems, water logging, salinity, .
	5th	Energy Resources: Growing energy need, renewable and non-renewable energy sources,
4th	1st	use of alternate energy sources, case studies.
	2nd	Land Resources: Land as a resource, land degradation,
	3rd	man induces landslides, soil erosion, and desertification.
	4th	Role of individual in conservation of natural resources.
	5th	Role of individual in conservation of natural resources.
5th	1st	Equitable use of resources for sustainable life styles.
	2nd	Concept of an eco system.
	3rd	Structure and function of an eco system.
	4th	Producers, Consumers, decomposers.
	5th	Energy flow in the eco systems.


 29/7/23

6th	1st	Ecological succession.
	2nd	Food chains, food webs and ecological pyramids.
	3rd	Introduction, types, characteristic features,
	4th	structure and function of the following eco system:
	5th	Forest ecosystem:
7th	1st	Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries).
	2nd	Biodiversity and it's Conservation
	3rd	Introduction-Definition: genetics, species and ecosystem diversity.
	4th	Biogeographically classification of India.
	5th	Value of biodiversity: consumptive use
8th	1st	, productive use, social ethical, aesthetic and optin values.
	2nd	Biodiversity at global, national and local level.
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	4th	Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts
	5th	Threats to biodiversity. Habitats loss, poaching of wild life, man wildlife conflicts.
9th	1st	Environmental Pollution.
	2nd	Definition Causes, effects and control measures of
	3rd	Air pollution.
	4th	b) Water pollution.
	5th	c) Soil pollution
10th	1st	d) Marine pollution
	2nd	e) Noise pollution.
	3rd	f) Thermal pollution
	4th	g) Nuclear hazards.
	5th	Solid waste Management: Causes, effects and control measures of industrial wastes
11th	1st	Role of an individual in prevention of pollution.
	2nd	Disaster <u>management</u> : Floods, earth quake, cyclone and landslides.
	3rd	Social issues and the Environment
	4th	Form unsustainable to sustainable development.
	5th	☑ Urban problems related to energy.

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28/7/23

12 th	1st	<input checked="" type="checkbox"/> Water conservation,
	2nd	, water shed management.
	3rd	<input type="checkbox"/> Resettlement and rehabilitation of people; its problems and concern.
	4th	<input type="checkbox"/> Environmental ethics: issue and possible solutions.
	5th	<input type="checkbox"/> Climate change, global warming, acid rain, ozone layer depletion,
13 th	1st	nuclear accidents and holocaust, case studies.
	2nd	<input type="checkbox"/> Air (prevention and control of pollution) Act.
	3rd	<input type="checkbox"/> Water (prevention and control of pollution) Act.
	4th	<input type="checkbox"/> Public awareness.
	5th	Human population and the environment
14 th	1st	<input type="checkbox"/> Population growth and variation among nations.
	2nd	<input type="checkbox"/> Population explosion- family welfare program.
	3rd	<input type="checkbox"/> Environment and human health.
	4th	<input type="checkbox"/> Human rights.
	5th	<input type="checkbox"/> Value education
15 th	1st	<input type="checkbox"/> Role of information technology in environment and human
	2nd	Question answer review
	3rd	Assignment
	4th	Project
	5th	
Sign of Faculty	J. Rawl HOD	Principal 28/1/22