


**GOVT. POLYTECHNIC SAMBALPUR, RENGALI LESSON PLAN(WINTER-2021)**

Discipline : ELECTRICAL ENGG.	Semester: 3th Sem	Name of the Teaching Faculty : SATYA NARYAN SAHOO
Subject : EVS	No. of Days / per week class allotted : 04	Semester From date : 01.10.2021 To Date : 08.01.2022 No. of Weesks : 14
Week	Class Day	Topics
1ST WEEK (04-10-2021 TO 09-10-2021)	1st	<b>1. The Multidisciplinary nature of environmental studies:</b> 1.1 Definition,
	2nd	scope and importance.
	3rd	1.2 Need for public awareness.
2ND WEEK (18-10-2021 TO 23-10-2021)	1st	2. Natural Resources: Renewable and non renewable resources:
	2nd	2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people.
	3rd	2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems.
3RD WEEK (25-10-2021 TO 30-10-2021)	1st	2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources.
	2nd	effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,
	3rd	2.1.5. Energy Resources: Growing energy need, renewable and non-renewable
	4th	2.1.6. Land Resources: Land as a resource, land degradation, man induces
4TH WEEK (01-11-2021 TO 06-11-2021)	1st	2.2 Role of individual in conservation of natural resources.
	2nd	2.3 Equitable use of resources for sustainable life styles.
	3rd	<b>3. Systems:</b> 3.2. Structure and function of an eco system.
5TH WEEK (08-11-2021 TO 13-11-2021)	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.
6TH WEEK (15-11-2021 TO 20-11-2021)	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	<b>4 Biodiversity and It's Conservation:</b> <b>4.1. Introduction</b>

7TH WEEK (22-11-2021 TO 27-11-2021)	1st	4.2. Biogeographically classification of India.
	2nd	4.3. Value of biodiversity: consumptive use,
	3rd	productive use, social ethical, aesthetic and optin values.
	4th	4.4. Biodiversity at global,
8TH WEEK (29-11-2021 TO 04-12-2021)	1st	national and local level.
	2nd	4.5. Threats to biodiversity: Habitats loss,
	3rd	poaching of wild life,
	4th	man wildlife conflicts.
09TH WEEK (06-12-2021 TO 11-12-2021)	1st	<b>5 Environmental Pollution:</b>
	2nd	5.1.1 Air pollution.
	3rd	5.1.2 Water pollution.
	4th	5.1.3 Soil pollution
10TH WEEK (13-12-2021 TO 18-12-2021)	1st	5.1.4 Marine pollution
	2nd	5.1.5 Noise pollution.
	3rd	5.1.6 Thermal pollution
	4th	5.1.7 Nuclear hazards.
11TH WEEK (20-12-2021 TO 25-12-2021)	1st	<b>6 Social issues and the Environment:</b>
	2nd	6.2. Urban problems related to energy.
	3rd	6.3. Water conservation, rain water harvesting, water shed management.
	4th	6.4. Resettlement and rehabilitation of people; its problems and concern.
12TH WEEK (27-12-2021 TO 01-01-2022)	1st	6.5. Environmental ethics: issue and possible solutions.
	2nd	6.6. Climate change, global warming, acid rain,
	3rd	ozone layer depletion, nuclear accidents and holocaust, case studies.
	4th	6.7. Air (prevention and control of pollution) Act.
13TH WEEK (03-01-2021 TO 08-01-2022)	1st	6.8. Water (prevention and control of pollution) Act. 6.9. Public awareness.
	2nd	7.2. Population explosion family welfare program.
	3rd	7.3. Environment and human health.
	4th	7.4. Human rights. 7.5. Value education

Note  
  
 04/10/21  
 H.O.D. (ELECTRICAL)