
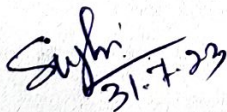


LESSON PLAN FOR SUMMER SESSION (2023-24)

| PROGRAMME : CIVIL ENGINEERING | | | NAME OF THE FACULTY: HARAPRIYA BADANAYAK |
|-------------------------------------|--|------|---|
| COURSE NAME : ENVIRONMENTAL STUDIES | | | SESSION : 2023-24 |
| COURSE CODE : TH.5 | | | DATE : 01/08/23 To 30/11/23 |
| SEMESTER : 3rd | | | |
| PERIODS/WEEK: 4 | | | |
| TOTAL PERIODS:60 | | | |
| WEEK | PERIODS | UNIT | TOPICS |
| Aug. 1st Week | 1 | 1 | 1. The Multidisciplinary nature of environmental studies Definition, scope and importance. |
| | 2 | | |
| | 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. |
| Aug. 2nd 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 | | 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. |
| Aug. 3rd Week | 1 | 2 | Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification. |
| | 2 | | |
| | 3 | | Role of individual in conservation of natural resources. |
| | 4 | | Equitable use of resources for sustainable life styles. |
| Aug. 4th Week | 1 | | Class Test-1 |
| | 2 | 3 | 3. Systems |
| | 3 | | <input type="checkbox"/> Concept of an eco system. |
| | 4 | | <input type="checkbox"/> Structure and function of an eco system. <input type="checkbox"/> Producers, consumers, decomposers. |
| | <input type="checkbox"/> Energy flow in the eco systems. | | |
| Aug. 5th Week | 1 | 3 | <input type="checkbox"/> Ecological succession. |
| | 2 | | <input type="checkbox"/> Food chains, food webs and ecological pyramids. |
| | 3 | | <input type="checkbox"/> Introduction, types, characteristic features, structure and function of the following eco system: |
| | 4 | | <input type="checkbox"/> Forest ecosystem: <input type="checkbox"/> Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries). |
| Sept. 1st Week | 1 | 4 | 4. Biodiversity and it's Conservation |
| | 2 | | <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. |
| Sept. 2nd Week | 1 | 4 | <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 | | 5. Environmental Pollution. |
| | 4 | | Definition Causes, effects and control measures of: |
| Sept. 3rd | 1 | | a) Air pollution. |
| | 2 | | b) Water pollution. |
| | 2 | | c) Soil pollution |

| | | | | |
|----------------|---|---|--|---|
| Sept. 3rd Week | 3 | 5 | d) Marine pollution | |
| | 4 | | e) Noise pollution. | |
| Sept. 4th 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. | |
| Oct. 1st Week | 1 | | 6 | Disaster management: Floods, earth quake, cyclone and landslides. |
| | 2 | | | 6. Social issues and the Environment |
| | 3 | <input type="checkbox"/> Form unsustainable to sustainable development. | | |
| | 4 | <input type="checkbox"/> Urban problems related to energy. | | |
| Oct. 2nd Week | 1 | 6 | <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. | |
| Oct. 3rd Week | 1 | 7 | <input type="checkbox"/> Air (prevention and control of pollution) Act. | |
| | 2 | | Class Test-2 | |
| | 3 | | <input type="checkbox"/> Water (prevention and control of pollution) Act. | |
| | 4 | | <input type="checkbox"/> Public awareness. | |
| Oct. 4th Week | 1 | | PUJA VACATION | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |
| Nov. 1st Week | 1 | 7 | 7. Human population and the environment | |
| | 2 | | <input type="checkbox"/> Population growth and variation among nations. | |
| | 3 | | <input type="checkbox"/> Population explosion- family welfare program. | |
| | 4 | | <input type="checkbox"/> Environment and humanhealth. | |
| Nov. 2nd Week | 1 | 7 | <input type="checkbox"/> Human rights. | |
| | 2 | | <input type="checkbox"/> Value education | |
| | 3 | | <input type="checkbox"/> Role of information technology in environment and human health. | |
| | 4 | | | |
| Nov. 3rd Week | 1 | 7 | Revision Class | |
| | 2 | | Revision Class | |
| | 3 | | Doubt Clearing Class | |
| | 4 | | Doubt Clearing Class | |
| Nov. 4th Week | 1 | 7 | Previous year question Paper discussion. | |
| | 2 | | Previous year question Paper discussion. | |
| | 3 | | | |
| | 4 | | | |
| Nov. 5th Week | 1 | 7 | | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |


 Concern faculty HOD
 Signature Civil engineering


 31-7-23


 Academic Coordinator
 GP Nabarangpur


 Principal
 GP Nabarangpur