



KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

| | | |
|--|--|---|
| Discipline: Electronics and Telecommunication Engineering | Semester: 3 rd , Winter/2022 | Name of the Teaching Faculty: Mr. Jiban Kumar Jena Email Id: jiban.jenafet@kp.kiit.ac.in |
| Subject: EVS | No. of Days/Week | Semester From Date: 14.09.2022 to Date: 21.01.2023 |
| Theory: 5 | Class Allotted -4 | No. of Weeks: 15 |
| Week | Class Day | Theory |
| 1st | 1st | Definition, scope and importance. |
| | 2nd | Need for public awareness. |
| | 3rd | Natural resources and associated problems. |
| | 4th | Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people. |
| 2nd | 1st | Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems |
| | 2nd | Revising the taught portions |
| | 3rd | Doubt clearance |
| | 4th | Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources. |
| 3rd | 1st | Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, salinity,. |
| | 2nd | Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies. |
| | 3rd | Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification. |
| | 4th | Role of individual in conservation of natural resources. |
| 4th | 1st | Equitable use of resources for sustainable life styles. |
| | 2nd | Concept of an eco-system Structure and function of an eco-system. |
| | 3 rd | Producers, consumers, decomposers. |
| | 4 th | Energy flow in the eco systems, Ecological succession. |
| 5 th | 1 st | Food chains, food webs and ecological pyramids |
| | 2 nd | Introduction, types, characteristic features, structure and function of the following eco system |
| | 3 rd | Forest ecosystem |
| | 4 th | Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries) |
| 6 th | 1 st | Introduction-Definition: genetics, species and ecosystem |

| | | |
|------------------|-----------------|--|
| | | diversity. |
| | 2 nd | Biogeographically classification of India |
| | 3 rd | Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and option values |
| | 4 th | Biodiversity at global, national and local level. |
| 7 th | 1 st | Threats to biodiversity: Habitat loss, poaching of wild life, man wildlife conflicts. |
| | 2 nd | Revision |
| | 3 rd | Class test |
| | 4 th | Doubt clearance |
| 8 th | 1 st | Definition Causes, effects and control measures of: Air pollution, Water pollution. |
| | 2 nd | Soil pollution |
| | 3 rd | Noise pollution |
| | 4 th | Thermal pollution |
| 9 th | 1 st | Marine pollution |
| | 2 nd | Water pollution |
| | 3 rd | QUIZ Test - 1 |
| | 4 th | Internal Exam |
| 10 th | 1 st | Revision of taught theories |
| | 2 nd | Assignment |
| | 3 rd | Checking of assignment |
| | 4 th | Class test |
| 11 th | 1 st | Solid waste Management: Causes, effects and control measures of urban and industrial wastes. |
| | 2 nd | Role of an individual in prevention of pollution. |
| | 3 rd | Disaster management: Floods, earth quake, cyclone and landslides. |
| | 4 th | Form unsustainable to sustainable development. |
| 12 th | 1 st | Urban problems related to energy. |
| | 2 nd | Water conservation, rain water harvesting, water shed management. |
| | 3 rd | Resettlement and rehabilitation of people; its problems and concern. |
| | 4 th | Environmental ethics: issue and possible solutions. |
| 13 th | 1 st | climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies. |
| | 2 nd | Air (prevention and control of pollution) Act. Water (prevention and control of pollution) Act. |
| | 3 rd | QUIZ Test - 2 |
| | 4 th | Public awareness. |
| 14 th | 1 st | Population growth and variation among nations. |
| | 2 nd | Population explosion- family welfare program. |
| | 3 rd | Environment and human health. |
| | 4 th | Human rights. |
| 15 th | 1 st | Value education |
| | 2 nd | Role of information technology in environment and human health. |
| | 3 rd | Previous year question discussion |
| | 4 th | Revision |