

Lesson Plan Winter 2022-23

| |
|---|
| Semester: 3rd |
| Subject : Th5. ENVIRONMENTAL STUDIES |
| Name of the Faculty : Rajani Kanta Choudhury |

| SI No | Title of the chapter | week/month | Class Day | Topic to be covered |
|-------|--|------------|-----------|--|
| 1 | The Multidisciplinary nature of environmental studies | 3rd/sep | 1st | 1.1 Definition, scope and importance |
| 2 | | | 2nd | 1.2 Need for public awareness. |
| 3 | | 4th/sep | 1st | 1.2 Need for public awareness. |
| 4 | | | 2nd | a) Natural resources and associated problems. 2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people |
| 5 | | | 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 |
| 6 | | | 4th | 2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources. |
| 7 | | | 1st | 2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers-pesticides problems, water logging, salinity, |

| | | | | | |
|----|---------|---------|-----|---|--|
| 8 | Systems | 5th/sep | 2nd | 2.1.5. Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies | |
| 9 | | | 3rd | 2.1.6. Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification. | |
| 10 | | | 4th | b) Role of individual in conservation of natural resources. | |
| 11 | | 3rd/oct | 1st | c) Equitable use of resources for sustainable life styles | |
| 12 | | | 2nd | 3.1. Concept of an eco system. 3.2. Structure and function of an eco system | |
| 13 | | | 3rd | 3.3. Producers, consumers, decomposers | |
| 14 | | | 4th | 3.4. Energy flow in the eco systems | |
| 15 | | | 5th | 3.5. Ecological succession | |
| 16 | | 4th/oct | 1st | 3.6. Food chains, food webs and ecological pyramids | |
| 17 | | | 2nd | 3.7. Introduction, types, characteristic features, structure and function of the following eco system | |
| 18 | | | 3rd | 3.8. Forest ecosystem | |
| 19 | | | 4th | 3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries). | |
| 20 | | | | 1st | 4.1. Introduction- Definition: genetics, species and ecosystem diversity |

| | | | | |
|-------------------------|------------------------------------|---------|---|---|
| 21 | Biodiversity and it's Conservation | 5th/oct | 2nd | 4.2. Biogeographically classification of India |
| 22 | | | 3rd | 4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values |
| 23 | | 6th/oct | 1st | 4.4. Biodiversity at global, national and local level |
| 24 | | 1st/nov | 2nd | 4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts |
| 25 | | | 3rd | 5.1. Definition Causes, effects and control measures of: a) Air pollution |
| 26 | 2nd/nov | 4th | b) Water pollution | |
| 27 | | 1st | c) Soil pollution | |
| 28 | | 2nd | d) Marine pollution | |
| 29 | | 3rd | e) Noise pollution | |
| 30 | | 1st | f) Thermal pollution | |
| 31 | | 2nd | g) Nuclear hazards | |
| 32 | | 3rd/nov | 3rd | 5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes |
| 33 | 4th | | 5.3. Role of an individual in prevention of pollution | |
| 34 | 4th/nov | 1st | 5.4. Disaster management: Floods, earth quake, cyclone and landslides | |
| 35 | | 2nd | 5.4. Disaster management: Floods, earth quake, cyclone and landslides | |
| 36 | | 3rd | 5.4. Disaster management: Floods, earth quake, cyclone and landslides | |
| Environmental Pollution | | | | |

| | | | | |
|----|----------------------------------|--------------------------------------|---|--|
| 37 | social issue and the environment | 4th | 6.1. Form unsustainable to sustainable development | |
| 38 | | | 5th/nov | 1st |
| 39 | | 2nd | | 6.3. Water conservation, rain water harvesting, water shed management |
| 40 | | 1st/dec | 1st | 6.4. Resettlement and rehabilitation of people; its problems and concern |
| 41 | | | 2nd | 6.5. Environmental ethics: issue and possible solutions |
| 42 | | 2nd/dec | 1st | 6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies |
| 43 | | | 2nd | 6.7. Air (prevention and control of pollution) Act |
| 44 | | | 3rd | 6.8. Water (prevention and control of pollution) Act |
| 45 | | | 4th | 6.8. Water (prevention and control of pollution) Act |
| 46 | | Human population and the environment | 3rd/ dec | 1st |
| 47 | 2nd | | | 7.1. Population growth and variation among nations |
| 48 | 3rd | | 7.2. Population explosion-family welfare program | |
| 49 | 4th | | 7.3. Environment and human health | |
| 50 | 4th /dec | | 1st | 7.4. Human rights |
| 51 | | | 2nd | 7.5. Value education |
| 52 | | 3rd | 7.6. Role of information technology in environment and human health | |

Rahul Kumar

