

**GANDHI SCHOOL OF ENGINEERING****BHABANDHA, BERHAMPUR****SESSION PLAN****3RD SEMESTER, BRANCH-INFORMATION TECHNOLOGY****ENVIRONMENTAL STUDIES (TH-5)****Name of the Faculty –ER. MONALISHA GOUDA**

| Topics to be taken | | | | TOPIC NO. | Actually Taken | | |
|--|--------------------------------------|---|--------------------------------|-----------|---|--------------------------|---------|
| SL NO & CHAPTER | No. of Periods assigned by SCTE & VT | Details of the topics | PLANNING DATE | | Details of the topics | ACTUAL DATE | Remarks |
| 1 The Multidisciplinary nature of environmental studies | 4 | The Multidisciplinary nature of environmental studies: | 02-07-2024 TO 11-07-2024 | 1 | The Multidisciplinary nature of environmental studies: INTRODUCTION | 02-07-2024 | |
| | | 1.1 Definition, scope and importance. | | 1.1 | 1.1 Definition, scope and importance. | 04-07-2024 | |
| | | 1.2 Need for public awareness | | 1.2 | 1.2 Need for public awareness Need for public awareness | 09-07-2024 11-07-2024 | |
| 2 Natural Resources: Renewable and non renewable resources | 10 | Natural Resources: Renewable and non renewable resources: | 12-07-2024 TO 08-08-2024 | 2 | Natural Resources: Renewable and non renewable resources: INTRODUCTION | 12-07-2024 | |
| | | 2.1 Natural resources and associated problems. | | 2.1 | 2.1 Natural resources and associated problems. | 18-07-2024 | |
| | | 2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people. | | 2.1.1 | 2.1.1. Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people. | 22-07-2024 | |
| | | 2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems. | | 2.1.2 | 2.1.2. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems. | 24-07-2024 | |
| | | 2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources. | | 2.1.3 | 2.1.3. Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources. | 30-07-2024 | |
| | | 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,... | | 2.1.4 | 2.1.4. Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers-pesticides problems, water | 31-07-2024 | |
| | | 2.1.5. Energy Resources: Growing energy need, renewable and non-renewable | | 2.1.5 | 2.1.5. Energy Resources: Growing energy need, renewable and | 01-08-2024 | |

| | | | | | | | |
|---|----|--|--------------------------------|------------|--|--|--|
| 2 Natural Resources: Renewable and non renewable resources | 10 | energy sources, use of alternate energy sources, case studies-2.1.5 | | 2.1.5 | non-renewable energy sources, use of alternate energy sources, case studies | 02-08-2024 | |
| | | 2.1.6. LandResources: Landasaresource, landdegradation, man induces landslides, soil erosion, and desertification. | | 2.1.6 | 2.1.6. LandResources: Landasaresource, landdegradation, man induces landslides, soil erosion, and desertification. | 06-08-2024 | |
| | | 2.2 Role of individual in conservation of natural resources. | | 2.2 | 2.2 Role of individual in conservation of natural resources. | 06-08-2024 | |
| | | 2.3 Equitable use of resources for sustainable life styles. | | 2.3 | 2.3 Equitable use of resources for sustainable life styles. | 08-08-2024 | |
| 3 System | 8 | Systems: 3.1. Concept of an eco system. | 09-08-2024 TO 28-08-2024 | 3 | Systems: ECO SYSTEM-INTRODUCTION | 09-08-2024 | |
| | | | | 3.1 | 3.1. Concept of an eco system. | | |
| | | 3.2. Structure and function of an eco system. | | 3.2 | 3.2. Structure and function of an eco system. | 13-08-2024 | |
| | | 3.3. Producers, consumers, decomposers. | | 3.3 | 3.3. Producers, consumers, decomposers. | 14-08-2024 | |
| | | 3.4. Energy flow in the eco systems. | | 3.4 | 3.4. Energy flow in the eco systems. | 16-08-2024 | |
| | | 3.5. Ecological succession. | | 3.5 | 3.5. Ecological succession. | 20-08-2024 | |
| | | 3.6. Food chains, food webs and ecological pyramids. | | 3.6 | 3.6. Food chains, food webs and ecological pyramids. | 23-08-2024 | |
| | | 3.7. Introduction, types, characteristic features, structure and function of the following eco system: | | 3.7 | 3.7. Introduction, types, characteristic features, structure and function of the following eco system: | 27-08-2024 | |
| | | 3.8. Forest ecosystem: 3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, | | 3.8 3.9 | 3.8. Forest ecosystem: 3.9. Aquatic eco systems (ponds, streams, lakes, rivers, oceans, | 28-08-2024 | |
| 4 Biodiversity and it's Conservation | 10 | Biodiversity and it's Conservation: 4.1. Introduction-Definition: genetics, species and ecosystem diversity. | 29-08-2024 TO 18-09-2024 | 4 | Biodiversity and it's Conservation: | 29-08-2024 | |
| | | | | 4.1 | 4.1. Introduction-Definition: genetics, species and ecosystem diversity. | 03-09-2024 | |
| | | 4.2. Biogeographically classification of India. | | 4.2 | 4.2. Biogeographically classification of India. | 06-09-2024 | |
| | | 4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and | | 4.3 | Biodiversity at global | 10-09-2024 | |
| | | 4.4. Biodiversity at global, national and local level. | | 4.4 | 4.3. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and | 12-09-2024 | |
| | | 4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts | | 4.5 | 4.4. Biodiversity at global, national and local level. 4.5. Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts | 13-09-2024 17-09-2024 18-09-2024 | |

| | | | | | | | |
|-------------------------------------|----|--|--------------------------|-------|---|------------|--|
| 5 Environmental Pollution | 12 | Environmental Pollution: 5.1. Definition Causes, effects and control measures of: 5.1.1 Air pollution. 5.1.2 Water pollution. 5.1.3 Soil pollution 5.1.4 Marine pollution 5.1.5 Noise pollution. 5.1.6 Thermal pollution 5.1.7 Nuclear hazards. 5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes. 5.3. Role of an individual in prevention of pollution. 5.4. Disaster management: Floods, earth quake, cyclone and landslides. | 19-09-2024 TO 01-11-2024 | 5 | Environmental Pollution: INTRODUCTION 5.1. Definition Causes, effects and control measures of: 5.1.1 Air pollution. 5.1.2 Water pollution. 5.1.3 Soil pollution 5.1.4 Marine pollution 5.1.5 Noise pollution. 5.1.6 Thermal pollution 5.1.7 Nuclear hazards. 5.2. Solid waste Management: Causes, effects and control measures of urban and industrial wastes. 5.3. Role of an individual in prevention of pollution. 5.4. Disaster management: Floods, earth quake, cyclone and landslides. | 19-09-2024 | |
| | | | | 5.1 | | 20-09-2024 | |
| | | | | 5.1.1 | | 24-09-2024 | |
| | | | | 5.1.2 | | 25-09-2024 | |
| | | | | 5.1.3 | | 26-09-2024 | |
| | | | | 5.1.4 | | 01-10-2024 | |
| | | | | 5.1.5 | | 03-10-2024 | |
| | | | | 5.1.6 | | 04-10-2024 | |
| | | | | 5.1.7 | | 22-10-2024 | |
| | | | | 5.2 | | 29-10-2024 | |
| | | | | 5.3 | | 30-10-2024 | |
| | | | | 5.4 | | 01-11-2024 | |
| 6 Social issues and the environment | 10 | Social issues and the Environment: 6.1. Form unsustainable to sustainable development. 6.2. Urban problems related to energy. 6.3. Water conservation, rain water harvesting, water shed management. 6.4. Resettlement and rehabilitation of people; its problems and concern. 6.5. Environmental ethics: issue and possible solutions. 6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies. 6.7. Air (prevention and control of pollution) Act. 6.8. Water (prevention and control of pollution) Act. 6.9. Public awareness. | 05-11-2024 TO 29-11-2024 | 6 | Social issues and the Environment: INTRODUCTION 6.1. Form unsustainable to sustainable development. 6.2. Urban problems related to energy. 6.3. Water conservation, rain water harvesting, water shed management. 6.4. Resettlement and rehabilitation of people; its problems and concern. 6.5. Environmental ethics: issue and possible solutions. 6.6. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies. 6.7. Air (prevention and control of pollution) Act. 6.8. Water (prevention and control of pollution) Act. 6.9. Public awareness. | 05-11-2024 | |
| | | | | 6.1 | | 06-11-2024 | |
| | | | | 6.2 | | 07-11-2024 | |
| | | | | 6.3 | | 12-11-2024 | |
| | | | | 6.4 | | 13-11-2024 | |
| | | | | 6.5 | | 22-11-2024 | |
| | | | | 6.6 | | 26-11-2024 | |
| | | | | 6.7 | | 27-11-2024 | |
| | | | | 6.8 | | 28-11-2024 | |
| | | | | 6.9 | | 29-11-2024 | |

| | | | | | | | |
|---|---|--|--------------------------|-----|--|------------|--|
| 7 Human Population and the environment | 8 | Human population and the environment: 7.1. Population growth and variation among nations. 7.2. Population explosion- family welfare program. 7.3. Environment and humanhealth. 7.4. Human rights. 7.5. Value education 7.6. Role of information technology in environment and human health. | 03-12-2024 TO 13-12-2024 | 7 | INTRODUCTION TO Human population and the environment: | 03-12-2024 | |
| | | | | 7.1 | 7.1. Population growth and variation among nations. | 04-12-2024 | |
| | | | | 7.2 | 7.2. Population explosion- family welfare program. | 05-12-2024 | |
| | | | | 7.3 | 7.3. Environment and humanhealth. | 06-12-2024 | |
| | | | | 7.4 | 7.4. Human rights. | 10-12-2024 | |
| | | | | 7.5 | 7.5. Value education | 11-12-2024 | |
| | | | | 7.6 | 7.6. Role of information technology in environment and human health. | 12-12-2024 | |
| | | | | | | 13-12-2024 | |

D. Parulkar

CLASS COVERED BY

HOD, INFORMATION TECHNOLOGY