**NAME OF THE FACULTY : Manju**

**DISCIPLINE : ECE**

**SEMESTER : 2**

**SUBJECT :** Environmental Studies and Disaster Management

**LESSON PLAN DURATION : 15 weeks (February to June 2024)**

**WORK LOAD PER WEEK : LECTURE-02 Hours**

|  |  |  |
| --- | --- | --- |
| **WEEK S.N.** | **THEORY** | |
| **Lecture**  **/ Hrs** | **TOPIC**  **(Including Assignment/Test)** |
| 1st | 1 | Unit-1 Introduction and basic discussion about our Environment. Basics of Ecology |
|
| 2 | Ecosystem- concept and sustainable development |
|
| 2nd | 1 | Renewable and Non-renewable resources  Advantages, disadvantages of renewable and nonrenewable energy |
|
| 2 | Rain water harvesting  Advantages, disadvantages of Rain water harvesting |
|
| 3rd | 1 | Deforestation – its effects & control measures |
|
| 2 | **UNIT-II**: Air and Noise Pollution Air Pollution: Source of air pollution, Effect of air pollution on human health. |
|
| 4th | 1 | Effect of air pollution on economy. Air pollution control methods. |
|
| 2 | Noise Pollution: Source of noise pollution. Unit of noise. Effect of noise pollution, Acceptable noise level, Different method of minimizing noise pollution. |
|
| 5th | 1 | **Class test/Quiz**  **Assignment-1** |
|
| 2 | **Sessional Test-1** |
|

|  |  |  |
| --- | --- | --- |
| **WEEK S.N.** | **THEORY** | |
| **Lecture**  **/ Hrs** | **TOPIC**  **(Including Assignment/Test)** |
| 6th | 1 | . **UNIT III:** Water and Soil Pollution Water Pollution: Impurities in water, Cause of water pollution, Source of water pollution |
|
| 2 | Effect of water pollution on human health, Concept of DO, BOD, COD. |
|
| 7th | 1 | Prevention of water pollution- Water treatment processes, Sewage treatment. Water quality standard |
|
| 2 | Soil Pollution :Sources of soil pollution, Effects and Control of soil pollution |
|
| 8th | 1 | Types of Solid waste- House hold, Industrial, Agricultural, Biomedical, Disposal of solid waste. |
|
| 2 | Solid waste management E-waste, E – waste management. |
|
| 9th | 1 | **UNIT IV**: Impact of Energy Usage on Environment  Global Warming, Green House Effect, Depletion of Ozone Layer, Acid Rain |
|
| 2 | . Eco-friendly Material, Recycling of Material  Concept of Green Buildings, Concept of Carbon Credit & Carbon |
|
| 10th | 1 | **Class test/Quiz**  **Assignment-2** |
|
| 2 | **Sessional Test-2** |
|
| 11th | 1 | UNIT V: Disaster Management  A. Different Types of Disaster |
|
| 2 | Natural Disaster: such as Flood, Cyclone, Earthquakes and Landslides etc |
|

|  |  |  |
| --- | --- | --- |
| **WEEK S.N.** | **THEORY** | |
| **Lecture**  **/ Hrs** | **TOPIC**  **(Including Assignment/Test)** |
| 12th | 1 | Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster |
|
| 2 | Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster |
|
| 13th | 1 | Biological Disasters, Accidents (Air, Sea Rail & Road) |
|
| 2 | Structural failures(Building and Bridge), War & Terrorism etc |
|
| 14th | 1 | Disaster Preparedness Plan, Prediction, Early Warnings and Safety Measures of Disaster. |
|
| 2 | Psychological response and Management (Trauma ,Stress, Rumour and Panic) |
|
| 15th |  | **Assignment- 3/Quiz** |
|
|  | **Sessional Test- 3** |
|