**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**

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| **WEEK S.N.** | **THEORY** |
| **Lecture****/ Hrs** | **TOPIC****(Including Assignment/Test)** |
| 1st | 1 | Unit-1 Introduction and basic discussion about our Environment. Basics of Ecology |
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| 2 | Ecosystem- concept and sustainable development |
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| 2nd | 1 | Renewable and Non-renewable resourcesAdvantages, disadvantages of renewable and nonrenewable energy |
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| 2 | Rain water harvestingAdvantages, disadvantages of Rain water harvesting |
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| 3rd | 1 | Deforestation – its effects & control measures |
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| 2 | **UNIT-II**: Air and Noise Pollution Air Pollution: Source of air pollution, Effect of air pollution on human health. |
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| 4th | 1 | Effect of air pollution on economy. Air pollution control methods. |
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| 2 | Noise Pollution: Source of noise pollution. Unit of noise. Effect of noise pollution, Acceptable noise level, Different method of minimizing noise pollution. |
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| 5th | 1 | **Class test/Quiz****Assignment-1** |
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| 2 | **Sessional Test-1** |
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| **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 |
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| 2 | Effect of water pollution on human health, Concept of DO, BOD, COD. |
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| 7th | 1 | Prevention of water pollution- Water treatment processes, Sewage treatment. Water quality standard |
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| 2 | Soil Pollution :Sources of soil pollution, Effects and Control of soil pollution |
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| 8th | 1 | Types of Solid waste- House hold, Industrial, Agricultural, Biomedical, Disposal of solid waste. |
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| 2 | Solid waste management E-waste, E – waste management. |
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| 9th | 1 | **UNIT IV**: Impact of Energy Usage on Environment Global Warming, Green House Effect, Depletion of Ozone Layer, Acid Rain |
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| 2 |  . Eco-friendly Material, Recycling of MaterialConcept of Green Buildings, Concept of Carbon Credit & Carbon |
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| 10th | 1 | **Class test/Quiz****Assignment-2** |
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| 2 | **Sessional Test-2** |
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| 11th | 1 | UNIT V: Disaster Management A. Different Types of Disaster |
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| 2 | Natural Disaster: such as Flood, Cyclone, Earthquakes and Landslides etc |
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| **WEEK S.N.** | **THEORY** |
| **Lecture****/ Hrs** | **TOPIC****(Including Assignment/Test)** |
| 12th | 1 | Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster |
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| 2 | Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster |
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| 13th | 1 | Biological Disasters, Accidents (Air, Sea Rail & Road) |
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| 2 | Structural failures(Building and Bridge), War & Terrorism etc |
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| 14th | 1 | Disaster Preparedness Plan, Prediction, Early Warnings and Safety Measures of Disaster. |
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| 2 | Psychological response and Management (Trauma ,Stress, Rumour and Panic) |
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| 15th |  | **Assignment- 3/Quiz** |
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|  | **Sessional Test- 3** |
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