LESSON PLAN

**Name of the Faculty**: Smt. Pooja Rani

**Discipline:** Civil, Electrical, Computer, Agriculture Engg.

**Semester:** 2nd

**Subject:** Environmental Studies & Disaster Management

**Lesson Plan Duration:** 16 weeks (from 15/02/2024 to 14/06/2024)

**Work Load (Lecture/Practical) per week (in hours):** Lectures – 02

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| **Week** | **Date** | **Lecture Day** | **Theory** |
| 1st |  | 1st | * **Unit – I Ecology –** Introduction
* Basics of Ecology
 |
|  | 2nd | * Ecosystem
 |
| 2nd |  | 3rd | * Sustainable Development
 |
|  | 4th | * Sources & Advantages of Renewable & Non-renewable sources of energy
* Disadvantages of Renewable & Non-renewable sources of energy
 |
| 3rd |  | 5th | * Rain water Harvesting
* Deforestation – effects & control measures
 |
|  | 6th | * Class Test
* **Assignment**
 |
| 4th |  | 7th | * **Unit – II Air & Noise Pollution –** Introduction
* Air Pollution
* Sources of Air Pollution
 |
|  | 8th | * Effect of Air Pollution on Human Health
* Effect of Air Pollution on Human Economy
 |
| 5th |  | 9th | * Air Pollution Control Methods
* Solution of problems
 |
|  | 10th | * **1st Sessional Test**
 |
| 6th |  | 11th | * Analysis of Sessional test
* Noise Pollution – Sources, Units, Effects
 |
|  | 12th | * PTM
* Acceptable Noise Level
* Different method of minimizing noise pollution
 |
| 7th |  | 13th | * **Unit – III Water & Soil Pollution –** Introduction
* Water Pollution- Cause & Sources
* Impurities present in Water
 |
|  | 14th | * Effect of Water Pollution on Human Health
* Concept of DO, BOD, COD
 |
| 8th |  | 15th | * Prevention of Water Pollution – Water treatment Processes
 |
|  | 16th | * Sewage Treatment
 |

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|  |  Date |  | * Water Quality Standard
* Class Test
 |
| 9th |  | 17th | * **Assignment**
* Soil Pollution- Sources, Effects, Control
 |
|  | 18th | * Types of Solid Waste
* Disposal of Solid Waste
* Solid Waste Management
 |
| 10th |  | 19th | * E-waste, E-waste Management
* Solution of problems
 |
|  | 20th | * **2nd Sessional Test**
 |
| 11th |  | 21st | * Analysis of Sessional test
* **Unit – IV Impact of Energy Usage on Environment –**

Introduction* Global Warming, Green House Effect
 |
|  | 22nd | * PTM
* Depletion of Ozone Layer
* Acid Rain
 |
| 12th |  | 23rd | * Eco-friendly Material
* Recycling of Material
 |
|  | 24th | * Concept of Green Buildings
* Concept of Carbon Credit
* Concept of Carbon footprint
 |
| 13th |  | 25th | * Class Test
* **Unit – V Disaster Management –** Introduction
* Natural Disaster: Flood, Cyclone, Earthquakes & Landslides etc.
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|  | 26th | * Man- made Disaster: Fire, Industrial Pollution, Nuclear Disaster
* Biological Disasters, Accidents(Air, Sea, Rail & Road)
* Structural Failures(Building & Bridge), War & Terrorism etc.
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| 14th |  | 27th | * Disaster Preparedness Plan
* Prediction, Early Warnings & Safety measures of Disasters
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|  | 28th | * Psychological response
* Psychological Management (Trauma, Stress, Rumour, Panic)
 |
| 15th |  | 29th | * **Assignment**
* Solution of problems
 |
|  | 30th | * **3rd Sessional Test**
 |
| 16th |  | 31th | * Analysis of Sessional test
* PTM
 |
|  | 32th | * Practice of sample papers (Revision)
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