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. |
|  | 26th | * Man- made Disaster: Fire, Industrial Pollution, Nuclear Disaster * Biological Disasters, Accidents(Air, Sea, Rail & Road) * Structural Failures(Building & Bridge), War & Terrorism etc. |
| 14th |  | 27th | * Disaster Preparedness Plan * Prediction, Early Warnings & Safety measures of Disasters |
|  | 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) |