**Lesson Plan**

Name of the Faculty : Mrs. Neelam Rathee

Discipline : Computer Engineering

Semester : 5th

Subject : Environment Education

Lesson Plan Duration : 15 weeks July, 2018 toNov. , 2018)

Work Load (Lecturer/Practical) per week (in hours) : Theory = 03

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| **Week** | **Theory** | |
| **Lecture Day** | **Topic (including Assignment & tests)** |
| 1st | **UNIT- I** | |
| 1st | Definition, Scope and Importance of Environmental Education |
| **UNIT- II** | |
| 2nd | Basics of ecology and Ecosystem |
| 3rd | Ecosystem: components and structure and types, Food Chain, Food Web |
| 2nd | 4th | Biodiversity and its value, Sustainable Development |
| **UNIT- III** | |
| 5th | Environment Pollution: its harmful effects |
| 6th | Pollutants, Natural & manmade sources of pollution |
| 3rd | 7th | Air Pollution: Meaning and causes and Effects |
| 8th | Controlling of Air Pollution |
| 9th | Water Pollution: Meaning, causes, effects and control measures |
| 4th | 10th | Noise Pollution: Meaning, causes, effects and control measures |
| 11th | Soil Pollution: Meaning, causes ,e Acid Rain ffects and control measures |
| 12th | Radio Active/ Nuclear Pollution: Meaning, causes ,effectsand control measures |
| 5th | **UNIT- IV** | |
| 13th | Solid Waste: Meaning, Reasons for accumulation of solid waste |
| 14th | * Home Assignment No. 1: ( contents of assignment will be assigned at that time only) |
| 15th | * Sessionl test/Class test-I (Tentative) |
| 6th | 16th | Side effects of Solid waste, Process of Solid waste disposal |
| 17th | Methods and techniques of Solid Waste management/disposal |
| 18th |
| 7th | **UNIT- V** | |
| 19th | Mining: Meaning, types of mining, side effects of mining and its control |
| 20th | Deforestation – Causes, effects and control measures |
| **UNIT- VI** | |
| 21st | Water (prevention and control of pollution) Act 1974, |
| 8th | 22nd | Air (Prevention and Control of Pollution) Act 1981 Board, |
| 23rd | Environmental Protection Act 1986, |
| 24th | Role and Function of State Pollution Control Board |
| 9th | 25th | * Home Assignment No. 2: ( contents of assignment will be assigned at that time only) |
| 26th | Environmental Impact Assessment (EIA) |
| 27th | * Sessional Test/Class Test-II (Tentative) |
| 10th | **UNIT- VII** | |
| 28th | Role & Importance of Non-conventional Energy Resources , Wind Energy, Bio Energy, Hydro Energy) |
| 29th | Solar Energy |
| 30th | Wind Energy |
| 11th | 31st | Hydro Energy |
| 32nd | Bio energy ( Bio Gas) |
| 33rd | Other non conventional energy sources like: Ocean thermal energy, Tidal Energy |
| 12th | **UNIT- VIII** | |
| 34th | Global Warming |
| 35th | Green House Effect |
| 36th | Depletion of Ozone Layer, Recycling of Material |
| 13th | 37th | Environmental Ethics, Rain Water Harvesting |
| 38th | Maintenance of Groundwater, Carbon Credits. |
| 39th | Acid Rain |
| 14th | 40th | * Home Assignment-3 ( contents of assignment will be assigned at that time only) |
| 41st | 3 R approach of environment protection |
| 42nd | Sessional Test/Class test-III(Tentative) |
| 15th | 43rd | Revision |
| 44th | Revision/Class Test (oral/written) |
| 45th | Revision |

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