**Lesson Plan**

**Name of Faculty : Sh. Amit Kumar Gupta**

**Discipline :Mechanical Engg.**

**Semester : 5th**

**Subject : Environmental Education (120151)**

**Lesson Plan Duration: 15weeks( JULY-NOV 2018 )**

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| **Week** |  | **Theory** |
| **Lecture Day** | **Topic (Including Assignment/ Test)** |
| 1st | 1 | Defination, scope of Environmental education. |
| 2 | Importance of environmental education. |
| 3 | Basics of ecology. |
| 2nd | 4 |  Bio-diversity |
| 5 | Eco-system (contd.) |
| 6 | Eco-system |
| 3rd | 7 | Sustainable development |
| 8 | Sources of pollution,Natural sources of pollution,Man-made pollution |
| 9 | Causes of pollution, Effects and control ,measures of Air pollution. |
| 4th | 10 | Causes of pollution, Effects and control ,measures of Water pollution. |
| 11 | Causes of pollution, Effects and control ,measures of soil pollution. |
| 12 | Causes of pollution, Effects and control ,measures of noise pollution. Units of measurements. |
| 5th | 13 | Causes of pollution, Effects and control ,measures of radio active and nuclear pollution. |
| 14 | **1stSessional Test** |
| 15 | Soild waste management, Soild waste Types. |
| 6th | 16 | Causes of solid waste management ,Effects of soild waste management |
| 17 | Control measure of urban and industrial waste. |
| 18 | Mining, Types of mining, Causes of mining , |
| 7th | 19 | Effects of mining & control measures  |
| 20 | Deforestration, Causes of deforestation , |
| 21 | Effects of deforestation & control measures |
| 8th | 22 | Environmental legislation |
| 23 | Water( prevention and control of pollution ) act 1974. |
| 24 | Air (prevention and control of pollution )act 1981. |
| 9th | 25 | **2ndSessional Test.** |
| 26 | Water( prevention and control of pollution ) act 1974. |
| 27 | Environmental protection act 1986 |
| 10th | 28 | Role of state pollution control board |
| 29 | Function of state pollution control board |
| 30 | Environmental impact assessment |
| 11th | 31 | Role of non-conventional energy resources , Advantages ,disadvantages of non-conventional energy resources |
| 32 | Role of solar energy |
| 33 | Role of wind energy |
| 12th | 34 | Role of bio-energy |
| 35 | Role of hydroenergy |
| 36 | Current issues in environment pollution ,Global warming |
| 13th | 37 | Green house effect |
| 38 | Depletion of ozone layer |
| 39 | Recycling of material  |
| **Lesson Plan** |
| **5thEnvironmental Education (120151)** |
| 14th | 40 | Environmental ethics |
| 41 | Rain water harvesting |
| 42 | Maintenance of ground water |
| 15th | 43 | Acid rain  |
| 44 | Carbon credits |
| 45 | **3rdSessional Test.** |