**Govt. Polytechnic Education Society, Manesar (Gurugram)**

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| Faculty name  |  | Smt. POOJA |
| Discipline |  | Computer Engineering |
| Year:-  |  | First |
| Subject |  | Environmental Studies |
| Duration of Lesson Plan  |  | 35 weeks(from 5th August, 2019 to May 2020) |
| **Work Load(Lecture/Practical) per week(in hours):- Lectures -02 Hours, Practical-01 Hour** |
| **Week** | **Theory** | **Practical** |
| **Lecture day** | **Topic (including assignment/test)** | **Lab Day** | **Topic** |
| Ist | 1st | Introduction and basic discussion about our Environment. | Ist | Discussion about Environment and social contribution. |
| 2nd | **Basics of Ecology** |
| 2nd | 3rd | Ecosystem- concept and sustainable development | 2nd | Determination of pH of drinking water |
| 4th | Renewable and Non-renewable resources |
| 3rd | 5th | Revision | 3rd | Determination of pH of drinking water |
| 6th | Unit-2: Air pollution, Sources of air pollution |
| 4th | 7th | Effect of air pollution on human health | 4th | Determination of TDS in drinking water |
| 8th | Economy, plants, animals |
| 5th | 9th | Air pollution control methods | 5th | Determination of TDS in drinking water |
| 10th | Revision and Assignment |
| 6th | 11th | Class test | 6th | Determination of TSS in drinking water |
| 12th | Unit-3: Water pollution |
| 7th | 13th | Impurities in water | 7th | Determination of TSS in drinking water |
| 14th | Causes of water pollution |
| 8th | 15th | Sources of water pollution | 8th | Determination of hardness in drinking water |
| 16th | Effect of water pollution on human health |
| 9th | 17th | Concept of dissolved O2 | 9th | Determination of hardness in drinking water |
| 18th | BOD, COD |
| 10th | 19th | Prevention of water pollution | 10th | Determination of oil & grease in drinking water |
| 20th | Water treatment processes |
| 11th | 21st | Sewage treatment | 11th | Determination of oil & grease in drinking water |
| 22nd | Water Quality standard |
| 12th | 23rd | Revision | 12th | Determination of alkalinity in drinking water |
| 24th | Revision and Assignment  |
| 13th | 25th | Class Test | 13th | Determination of alkalinity in drinking water |
| 26th | Unit-4: Soil pollution |
| 14th | 27th | Sources of soil pollution | 14th | Determination of acidity in drinking water |
| 28th | Types of Solid waste |
| 15th | 29th | House hold, Hospital, From Agriculture | 15th | Determination of acidity in drinking water |
| 30th | Biomedical, Animal and human |
| 16th | 31st | excreta, sediments | 16th | Determination of organic/ inorganic solid in drinking water |
| 32nd | E-waste |
| 17th | 33rd | Effect of Solid waste | 17th | Determination of organic/ inorganic solid in drinking water |
| 34th | Disposal of Solid Waste |
| 18th | 35th | Solid Waste Management | 18th | Determination of pH of soil |
| 36th | Revision |
| 19th | 37th | Class Test | 19th | Determination of pH of soil |
| 38th | Unit-5: Noise pollution |
| 20th | 39th | Source of noise pollution | 20th | Determination of N&P (Nitrogen & Phosphorus) of soil |
| 40th | Unit of noise |
| 21st | 41st | Effect of noise pollution | 21st | Determination of N&P (Nitrogen & Phosphorus) of soil |
| 42nd | Acceptable noise level |
| 22nd | 43rd | Different methods of minimizing noise pollution | 22nd | Revision and Viva |
| 44th | Revision |
| 23rd | 45th | Unit-6: Environmental Legislation | 23rd | Revision and Viva |
| 46th | Introduction to Water (Prevention and Control of Pollution) Act 1974 |
| 24th | 47th | Introduction to Air (Prevention and Control of Pollution) Act 1981 | 24th | To measure the noise level in classroom and industry. |
| 48th | Environmental Protection Act 1986 |
| 25th | 49th | Role and Function of State Pollution Control Board | 25th | To measure the noise level in classroom and industry. |
| 50th | National Green Tribunal (NGT) |
| 26th | 51st | Environmental Impact Assessment (EIA) | 26th | To segregate the various types of solid waste in a locality. |
| 52nd | Revision |
| 27th | 53rd | Revision | 27th | To segregate the various types of solid waste in a locality. |
| 54th | Unit-7: Impact of energy usage on Environment |
| 28th | 55th | Global Warming | 28th | To study the waste management plan of different solid waste |
|  | 56th | Green House Effect |
| 29th | 57th | Depletion of Ozone Layer | 29th | To study the waste management plan of different solid waste |
| 58th | Acid Rain |
| 30th | 59th | Eco-friendly Material | 30th | Revision and Viva |
| 60th | Recycling of Material |
| 31st | 61st | Concept of Green Buildings | 31st | Revision and Viva |
| 62nd | Revision |
| 32nd | 63rd | Revision | 32nd | To study the effect of melting of floating ice in water due to global warming |
| 64th | Revision |
| 33rd | 65th | Revision | 33rd | To study the effect of melting of floating ice in water due to global warming |
| 66th | Revision |
| 34th | 67th | Revision | 34th | Revision and Viva |
| 68th | Revision |
| 35th | 69th | Revision | 35th | Revision and Viva |
| 70th | Revision |