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| Discipline :  **Mechanical Engg.** | Semester : **3rd** | Name of The Teaching Faculty:  **Er.Suresh kumar chaudhury** |
| Subject :  **Enviromental studies** | No Of Days/Week Class Allotted  **05** | Semester From : **01.08.2023** To **30.11.2023** |
| No. Of Weeks : **17** |
| **WEEKS** | **CLASS DAY** | **THEORY** |
| 01.08.2023  TO  05.08.2023 | 1ST | The Multidisciplinary nature of environmental studies  Introduce to environmental studies |
| 2ND | Definition |
| 3RD | Scope and importance. |
| 4TH | Need for public awareness. |
| 07.08.2023  TO  12.08.2023 | 1ST | **Unit 2: Natural Resources**  **Renewable and nonrenewable resources:**  a) Natural resources and associated problems. |
| 2ND | Forest resources: Use and over-exploitation, deforestation, Forest resources: Use and over-exploitation, deforestation |
| 3RD | Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam’s benefits and problems. |
| 4TH | Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources. |
| 14.08.2023  TO  19.08.2023 | 1ST | Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides problems, water logging, and salinity. |
| 2ND | Energy Resources: Growing energy need, renewable and non-renewable energy sources, |
| 3RD | use of alternate energy sources, case studies. |
| 4TH | Land Resources: Land as a resource, land degradation, man induces landslides. |
| 21.08.2023  TO  26.08.2023 | 1ST | Soil erosion and desertification. |
| 2ND | b) Role of individual in conservation of natural resources. |
| 3RD | c) Equitable use of resources for sustainable life styles. |
| 4TH | **Unit 3: Systems**  Concept of an eco-system. |
| 28.08.2023  TO  02.09.2023 | 1ST | Structure and function of an eco-system. |
| 2ND | RAKSHYA BANDHAN |
| 3RD | Producers, consumers, decomposers |
| 4TH | Energy flow in the eco systems. |
| 04.09.2023  TO  09.09.2023 | 1ST | Ecological succession. |
| 2ND | JANMASTAMI |
| 3RD | Food chains, |
| 4TH | Food webs and ecological pyramids. |
| 11.09.2023  TO  16.09.2023 | 1ST | Introduction, types, characteristic features |
| 2ND | Structure and function of the following eco system: |
| 3RD | Forest ecosystem |
| 4TH | Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries). |
| 18.09.2023  TO  23.09.2023 | 1ST | **Unit 4: Biodiversity and it’s Conservation**  Introduction-Definition:  Genetics, species |
| 2ND | NUA KHAI |
| 3RD | Ecosystem diversity. |
| 4TH | Biogeographically classification of India. |
| 25.09.2023  TO  30.09.2023 | 1ST | Value of biodiversity: consumptive use, productive use |
| 2ND | Social ethical, aesthetic and option values. |
| 3RD | BIRTHDAY OF MOHAMMAD |
| 4TH |  |
| 02.10.2023  TO  07.10.2023 | 1ST | GANDHI JAYANTI |
| 2ND | Biodiversity at global, national and local level. |
| 3RD | Threats to biodiversity: Habitats loss, |
| 4TH | Poaching of wild life , man wildlife conflicts. |
| 09.10.2023  TO  14.10.2023 | 1ST | **Unit 5: Environmental Pollution.**  Definition Causes, effects and control measures of: Air pollution, Water pollution. |
| 2ND | Soil pollution ,Marine pollution |
| 3RD | Noise pollution. |
| 4TH | MAHALAYA |
| 16.10.2023  TO  21.10.2023 | 1ST | Thermal pollution, Nuclear hazards. |
| 2ND | Solid waste Management: Causes, effects |
| 3RD | Solid waste Management: control measures of urban and industrial wastes. |
| 4TH | PUJA HOLIDAY |
| 23.10.2023  TO  28.10.2023 | 1ST |
| 2ND |
| 3RD |
| 4TH |
| 30.10.2023  TO  04.11.2023 | 1ST | Role of an individual in prevention of pollution. |
| 2ND | Disaster management: Floods, earth quake, cyclone and landslides. |
| 3RD | **Unit 6: Social issues and the Environment**  Form unsustainable to sustainable development. |
| 4TH | Urban problems related to energy. |
| 06.11.2023  TO  11.11.2023 | 1ST | Water conservation, rain water harvesting, water shed management. |
| 2ND | Resettlement and rehabilitation of people; its problems and concern. |
| 3RD | Environmental ethics: issue and possible solutions. |
| 4TH | Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies. |
| 13.11.2023  TO  18.11.2023 | 1ST | Air (prevention and control of pollution) Act. |
| 2ND | Water (prevention and control of pollution) Act. |
| 3RD | Public awareness. |
| 4TH | **Unit 7: Human population and the environment**  Population growth and variation among nations. |
| 20.11.2023  TO  25.11.2023 | 1ST | Population explosion- family welfare program. |
| 2ND | Environment and human health. |
| 3RD | Human rights. |
| 4TH | Value education |
| 27.11.2023  TO  30.11.2023 | 1ST | **RAHASA PURNIMA** |
| 2ND | Role of information technology in environment and human health. |
| 3RD | Revision |
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