| Discipline: MECHANICAL | Semester: | Name of the Teaching Faculty: Somana Biswa. GF: Mechanical | | | | | |
|---------------------------|--|--|--|--|--|--|--|
| Subject: EVS | No. of days/per week class allotted: | Semester From date: To date: (5.9.22 No of weeks: 15 | | | | | |
| Week | Class Day | Theory Topics: | | | | | |
| 1st | 1st 2nd 3rd | Introduction to EVS, Definition scope & it's Importance Need for public awareness | | | | | |
| | 4 th | a) Natural resources and associated problems | | | | | |
| 2 nd | 1st | Forest resources: Use and over-exploitation, deforestation, case studies | | | | | |
| | 2 nd | Timber extraction mining, dams and their effects on forests and tribal people. | | | | | |
| | 3rd | Water resources: Use and over-utilization of surface and ground water | | | | | |
| | 4 th | Floods, Drought, conflicts over water, dam's benefits and problems. | | | | | |
| 3rd | 1 st | Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources. | | | | | |
| | 2 nd | Food Resources: World food problems ,changes caused by agriculture and overgrazing, | | | | | |
| | 3rd | Effects of modern agriculture, fertilizers pesticides problems, water | | | | | |
| | 4 th | Energy Resources: Growing energy need, renewable and non renewable energy sources, use of alternate energy sources, case studi | | | | | |
| 4th | 1st | Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification | | | | | |
| | 2 nd | b) Role of individual in conservation of natural resources. c) Equitable use of resources for sustainable lifestyles. | | | | | |
| | 3rd | Concept of an ecosystem. Structure and function of an ecosystem. | | | | | |
| | 4 th | Producers, consumers, decomposers. | | | | | |
| | 1st | Energy flow in the ecosystems. | | | | | |
| | 2 nd | Ecological succession | | | | | |
| | 3rd | Food chains, food web sand ecological pyramids. | | | | | |
| 5 th | 4th | Introduction, types, characteristic features, structure and function of the following ecosystem | | | | | |

HOD, Mech

_Sunonga Biswal (PTWF)

| 9 | 5 | | 89 | | | | 711 | 614 | | | | |
|---|------------------------------------|---|----------------|----------------------------------|---|--|---|---|---|---|--|--------------------------------|
| A 34 12 | <u> </u> | 2rd 3rd | lπ | 4 37 | 2:1 | 72 | 44 Ca 13 | (T | die Gr | 24 | 7 | |
| Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution. Disaster management: Floods, earth quake, cyclone and landslides | Thermal pollution Nuclear hazards | Marine pollution. | Soil pollution | Air pollution. Water pollution. | Definition Causes, effects and control measures | peaching of wild life, man wildlife conflicts. | Biodiversity at global, national and local level. Threats to biodiversity: Habitats loss, | Value of biodiversity, consumptive use, productive use, covial orbical aesthetic and opt in values. | Biogeographically classification of India | Introduction-Definition: genetics, species and ecosystem diversity, | Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries). | Lange Constition |
| Hop, med. Sumonto Bizuas (graf) | 15th 3rd Discussion of PYQ | 1 st Revision Discussion of PYQ 2 ^{std} Discussion of PYQ | | | 1 st Human rights. | 13th 3rd Population explosion-tamity | 1111 | 12th 3rd Air (prevention and control of pollution) Act. | | 46 | 11th 2nd Urban problems related to water harvesting, water shed manage. Water conservation, rain water harvesting, water shed manage. 11th 3rd Water conservation, rain water harvesting, water shed manage. | From unsustainable to specify. |