**ADITYA DEGREE COLLEGES**

**ANDHRA PRADESH**

**MID – 1 SYLLABUS**

**ENVIRONMENTAL STUDIES**

**SEMESTER – I**

**Unit-I : Natural Resources**: Definition, scope and importance. Need for public awareness. Brief description of; Forest recourses: Use and over-exploitation. Deforestation; timber extraction, mining, dams. Effect of deforestation environment and tribal people Water resources: Use and over–utilization. Effects of over utilisation of surface and ground water. Floods, drought. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources. Food resources: World food problems, Effects of modern agriculture; fertilizerpesticide, salinity problems. Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Land resources: Land as resources, land degradation, man induced landslides, soil erosion and desertification

**Unit-II :** Ecosystems, Biodiversity and its conservation Concept of an ecosystem Structure and function of an ecosystem Producers, consumers and decomposers Food chains, food webs and ecological pyramids Characteristic features of the following ecosystems:- Forest ecosystem, Desert ecosystem, Aquatic ecosystem. Value of biodiversity: Consumptive use, productive use. Biodiversity in India. Threats to biodiversity: habitat loss, poaching of wildlife, man wildlife conflicts. Endangered and endemic species of India Conservation of biodiversity

**Unit-III** : Environmental Pollution Definition Causes, effects and control measures of

a. Air pollution b. Water pollution ANUR c. Soil pollution d. Noise pollution