

Semester - II

BES-C – 201: Natural Resource Management

UNIT 1:

Natural Resources: Introduction, types - renewable and non-renewable; resource conservation; resource availability and factors influencing its availability; Resource and resource degradation.

UNIT 2:

Forest Resources: Importance, types of forest, forest products, Non-timber forest products. Deforestation (forest fires, forest land degradation, Illicit felling, grazing, shifting cultivation etc.), Forest conservation measures– Social forestry (Farm forestry, village forestry, agroforestry, extension forestry).

UNIT 3:

Water resources: Importance, types of water resources, water resources of India, freshwater (groundwater, surface water), Marine water (Saline and brackish Water), depletion of water resources, Overexploitation of water resources, Water conservation, Rain water harvesting.

UNIT 4:

Energy Resources: Renewable and non-renewable energy resources. Solar Energy, Wind energy, biomass energy, hydrothermal energy. Fossil fuels, coal, petrol and natural gases, biogas and green energy.

UNIT 5:

Land Resources: types, food resources, mineral resources and reserves, ocean ore and recycling of resources, Environmental impact of exploitation, processing and smelting of Mineral, oceans as need areas for exploitation of Mineral resources.