

M.Sc. Environmental Science
Semester-II
NATURAL RESOURCES

UNIT –I

Resources: Definition, classification of natural resources, natural resource degradation and conservation, Environmental impacts of resource depletion, Human impact on natural resources. Wild life resources and conservation measures .

Human resources – population explosion, urbanization, industrialization, slums, poverty.

UNIT -II

Land resources: Land degradation due to mining, exploration, industrialization, irrigation and natural disasters;

Soil Erosion, Loss of soil fertility, Restoration of soil Fertility, Soil Conservation Methods, restoration of degraded land, Organic farming, Mineral resources: Mineral resources of India – Use and exploitation; mineral exploration, extraction; environmental impacts of extraction; Restoration of mining lands.

UNIT -III

Forest resources: Forests, their importance, types, global distribution; primary and secondary products, forest resources of India. Impact of deforestation; Sustainable Forest Management.

UNIT –IV

Water Resources: Surface, ground water, marine and brackish water resources - assessment and utilization, Rivers and Lakes in India, hydrological cycle, Ground water depletion, Water logging and salinity, Water Conservation and management techniques, Rain water harvesting, Eutrophication, Restoration of Lakes, River cleaning, Interlinking of rivers, conflicts over water.