

Semester – III

BES –C-301: Environmental Pollution

Unit – 1

Environmental pollution: Definition, Types. Environmental contaminants and environmental pollutants. Classification of pollutants – on the basis of physical properties and forms of their existence. Primary and secondary pollutants, degradable and non-degradable, point and non-point sources of pollution.

Unit – 2

Air pollution: Definition, sources of air pollution and their effects on flora, fauna, human beings and materials. Indoor pollution, automobile pollution, ozone depletion and recovery, global warming and climate change.

Unit - 3

Water pollution: Definition, types (Surface, groundwater, marine) and sources of water pollution and their effects. Water quality criteria – specifications for drinking and inland surface waters. Water Quality Indices.

Unit - 4

Soil pollution: Definition, sources and types, Soil pollutants, Effects of pollution on soil health and productivity. Effects of pesticides on soil, Soil erosion, types and control.

Solid waste pollution: Definition, origin, classification and characteristics of solid waste. Segregation, collection, transportation and disposal of solid waste.

Unit - 5

Noise pollution: Definition, sources and effects. Noise-induced hearing loss. Decibel scale. Noise control measures.

E-waste: Definition, sources, composition, recycling and disposal methods. Hazardous waste: Definition, Sources, classification, effects and disposal methods.