

M.Sc. Environmental Science
Semester-III
HAZARDOUS WASTE MANAGEMENT

Unit-I

Hazardous waste: Definition, history, Sources and Characterization of hazardous waste, Status of hazardous waste generation and disposal in India, Environmental issues of hazardous waste disposal, Impacts of hazardous waste on environment, wildlife and human health.

Unit-II

Hazardous waste collection, transportation and Storage, Worker safety in Handling Hazardous waste
Physical, Chemical and thermal treatment processes for hazardous wastes.

Unit-III

Hazardous waste management: bioremediation of hazardous waste, landfill disposal, Handling and management of Biomedical, Agriculture waste, E-waste and radioactive waste management, EIA and mitigation approaches for environmental impacts.

Unit-IV

Biomedical Wastes (Management and Handling) Rules and amendments, Electronic Wastes (Management and Handling) Rules, Plastic Wastes (Management and Handling) Rules, Hazardous Wastes (Management, Handling and Trans-boundary movement) Rules and amendments, Batteries (Management and Handling) Rules, Radioactive waste management and disposal rules.