

Course syllabus

Department of Civil Engineering, Indian Institute of Technology Madras

CE5280 - Hazardous Waste Management

Credit Distribution: C:9 L:3 T:0 P:0 E:0 O:6 TH:0

Course Type: Theory

Description: Introduction to Hazardous wastes, Definition of Hazardous waste, The magnitude of the problem, Risk assessment, Environmental legislation, Characterization and site assessment, Waste minimization and resource recovery, Chemical, physical and biological treatment, Transportation of hazardous waste, Ground water contamination, Landfill disposal. Current Management Practices: Environmental audit, Pollution Prevention, Facility Development and operation, Site Remediation: Quantitative risk assessment, site and subsurface characterization, Containment, remedial alternatives.

Course Content: Introduction to Hazardous wastes, Definition of Hazardous waste, The magnitude of the problem, Risk assessment, Environmental legislation, Characterization and site assessment, Waste minimization and resource recovery, Chemical, physical and biological treatment, Transportation of hazardous waste, Ground water contamination, Landfill disposal. Current Management Practices: Environmental audit, Pollution Prevention, Facility Development and operation, Site Remediation: Quantitative risk assessment, site and subsurface characterization, Containment, remedial alternatives.

Text Books: NIL

Reference Books: NIL

Prerequisite: NIL