

BOE-015	Solid and hazardous waste management	3L:0T:0P	3 credits
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Pre requisites: None

Course Objectives:

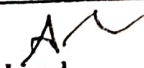
CO1	To study sources, types and composition of solid waste with methods of handling, sampling, processing and storage of solid waste and have general idea about disposal
CO2	To study the Processing of the solid waste, disposal methods.
CO3	To study about the hazardous waste management.
CO4	To Study the risk assessment

Solid and hazardous waste management

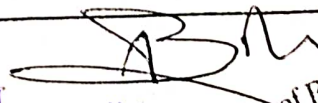
Solid Wastes: Origin, Analysis, Composition and Characteristics. Integrated Solid Waste Management System: Collection, Storage, and Segregation, Reuse and Recycling possibilities, Transportation, Treatment / Processing and Transformation Techniques, Final Disposal Management of: Municipal, Biomedical, Nuclear, Electronic and Industrial Solid Wastes and the rules and regulations. Introduction to Hazardous wastes, Definition of Hazardous waste, The magnitude of the problem; Hazardous waste: Risk assessment, Environmental legislation, Characterization and site assessment, Waste minimization and resource recovery, Transportation of hazardous waste, Physical, chemical and biological treatment, 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 Outcomes: After the completion of the course the student will be able to:

CO1	To know about the solid waste management and disposal techniques.
CO2	To know about the sources and composition of municipal solid waste & collection methods.
CO3	To know the waste management rules to generators of solid wastes and its generation rates.
CO4	To know about quantitative risk assessment


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