

Course Title	Waste Management			Course Code	BST 31362		
Year	3	Semester	1	Credits	02	Theory (hr)	20
						Practical (hr)	20
						Independent Learning (hr)	

**Aim of the Course:**

To provide the knowledge and skills required to foster implementation of an integrated waste management system with special reference to the reduction of waste at the source

**Intended Learning Outcomes:**

*After completion of this course, the learner should be able to:*

- Classification of waste in terms of their collection, storage and transportation.
- Explain the design, operation and maintenance of waste disposal techniques.

**Course Capsule:**

Theory
Classification of waste; Waste generation aspects; Waste characteristics; Waste collection, storage and transport; Waste disposal; Sanitary land fill; Waste processing techniques; Source reduction; Product recovery and recycling; Biological conversion of products; Compost and biogas; Incineration and energy recovery; Hazardous waste management; Integrated waste management; Public and health issues; Policy and legislations; Waste water characteristics components and effluent quality parameters; Waste water treatment processes; anaerobic and aerobic

Practical
Testing BOD of waste water; Testing COD and DO in the waste water; Testing physical parameters of waste water; TSS, Turbidity; Coli-form test; Design of an aerobic digester; Design of a bio gas unit; Case study - industrial visit to a dairy, DC, textile or rubber factory to observe waste treatment process

**Assessment:**

Continuous assessment: 50%  
 End semester assessment: 50%