

**CE733A: Geo-Environmental Design Aspects of Solid Waste****3-0-0-0 [9]****Course Contents:**

Identification, characterization and regulatory requirements for disposal of hazardous, nonhazardous and domestic wastes; Waste Management, Recycling, composting, incineration and various disposal methods; Site selection and Geo-environmental investigations; Natural attenuation process and mechanism of attenuation; Design practices of solid wastes; Tailing dams for disposal of fly ash, coal, copper, iron and other metal wastes; Single and double lined landfill design, linear material clay, geo synthetics amended soils and other admixtures; Leachate collection and detection system; Landfill construction; Construction quality control and performance monitoring; Application of geo-synthetics in waste disposal design.