Course Name:

Solid Waste Management

Course Number:

20668

Credit:

3

Course Content (outline):

- Introduction
 - Comprehensive approach to municipal waste, the status of municipal solid waste management in the country and in Tehran
- Quality of the wastes
 - Amount, source, type, composition and characteristics of wastes, physical, chemical and biological properties of wastes, hazardous waste in municipal solid waste
- Separation, conversion and recycling
 - Source separation, collection and transportation of wastes. Solid waste conversion and recycling
- Landfilling
 - Solid waste disposal methods, composition and properties of leachate and gas, their production, movement and control, Design and monitoring of pollutants
- Comprehensive management
 - Economics, planning and management of solid waste
- Special wastes
 - Dimensions of engineering and management of solid waste from municipal wastewater treatment, sludge dissemination and it's application in agriculture and land restoration.

References:

- "Integrated Solid Waste Management Engineering Principles and Management Issues", Tchobanoglous et al., McGraw-Hill Book Co., 1993.
- http://ewrc.sharif.edu/course/MSW