



SUBJECT DATASHEET

Semester:	2010/11/1
Subject:	Waste Management
Code:	VEMKKVB212H
Responsible department:	Department of Environmental Engineering
Responsible department code:	MKKV
Responsible lecturer:	Dr. Rita Szakácsné Földényi

Educational objectives:

To get theoretical as well as practical knowledge in the field of waste management.

Detailed content of the subject:

1. Definition and types of waste. 2. Subject and regulation of waste management. 3. The establishment and recording of the amount and composition of the generated waste. 4. Collection and transportation of wastes. 5. Physical and physical-chemical procedures in the waste treatment. 6. Chemical procedures in the waste treatment. 7. Immobilization and solidification in the waste treatment. Vitrification and molten salt immobilization technologies. 8. Waste incineration. 9. Pyrolysis and plasma technologies. Wet oxidation procedures. 10. Waste disposal by biological methods. 11. Processes in landfill sites. 12. Environmental requirements of the establishment and operating of landfill sites. 13. Operating, closing and after-treatment of landfill sites. 14. Written examination. 15. The fate of wastes in the nature.

Requirements:

Sufficient written exam accompanied by at least 50% achievement.

Required and suggested references:

? Barótfi István (szerk.): Környezettechnika, Mezőgazda Kiadó, Budapest, 2000. ? Szabó Imre: Hulladékelhelyezés, Miskolci Egyetemi Kiadó, Miskolc, 1999. ? Lábod József: Veszélyes hulladékok égetése, korszerű égetőművek üzemeltetése 1-2., Neti Kft. Budapest, 2000. ? R. A. Corbitt: Standard Handbook of Environmental Engineering, McGraw-Hill, New York, 1990 ? http://www.ktm.hu/jogszabalyok2.php?type=2&sub_section_id=16, 2004-06-01 ? <http://www.kvvm.hu/szakmai/hulladekgazd/>, 2004-06-01