



SUBJECT DATASHEET

Semester:	2010/11/2
Subject:	Nuclear Waste Disposal
Code:	VEMLRKM412H
Responsible department:	Institute of Radiochemistry and Radioecology
Responsible department code:	MKRK
Responsible lecturer:	Tibor Kovács

Educational objectives:

Getting the newest knowledge about storing radioactive wastes.

Detailed content of the subject:

Sources, categories of radioactive waste. Safety principles. Authority regulations. International legal system. Low and intermediate radiation level waste management. Low and intermediate radiation level waste disposal. Management of burnt nuclear fuel and high-activity waste. Disposal of burnt nuclear fuel and high-activity waste. Environmental relations of radioactive waste management. Social relations of waste disposal. Management of used radioactive radiation sources. Special management of medical, biological waste. Disassembly of nuclear establishments. Recultivation of contaminated territories. Observations, improvements.

Requirements:

In the course of an oral examination two overall questions on the issues of the lectures are provided to each student. A short period of time (maximum 30 minutes) is supplied to the students to prepare some drafts of their answers. The exam is qualified in the following ways: - If draft and the answers provided by the student are clear, correct and explains every important relationship on the subject, the record is marked as excellent one (5). - If the student is able to make an overall analysis on the issue solely by the directions of the teacher, he (she) is assessed with a good record (4). - If the student is not able to give clear description on the main relationships of the subject but he (she) can define the fundamental conceptions, his grade is a fair (medium) (3). - If the student can define the fundamental conceptions of the issue by the directions of the teacher, he gets a pass (2). - Without having studied the fundamental conceptions the student is qualified with an unsatisfactory (fail) record (1).

Required and suggested references:

Dr. Ormai Péter: Nemzetközi és hazai törekvések a radioaktív hulladékok biztonságos kezelésére és elhelyezésére, RHKKT kiadvány, 2003. Radioactive Waste Management: Status and Trends, International Atomic Energy Agency, Vienna, 2001. Classification of Radioactive Waste, International Atomic Energy Agency, Safety Guide 111-G-1.1, Safety Series No. 111-G-1.1, pp. 13, IAEA, Vienna, 1994. Strategic Areas in Radioactive Waste Management, Nuclear Energy Agency of the OECD, Paris, 1999.