



SUBJECT DATASHEET

Semester:	2010/11/2
Subject:	Radiation accident, Response and Prevention
Code:	VEMLRKM412S
Responsible department:	Institute of Radiochemistry and Radioecology
Responsible department code:	MKRK
Responsible lecturer:	Tibor Kovács

Educational objectives:

Getting knowledge about possible actions in case of nuclear accidents.

Detailed content of the subject:

Nuclear stability. Catastrophe, nuclear prevention out of site. Nuclear accidents requiring intervention. Planning bases of dangerous situations out of site. Radiological accident prevention objectives and strategy. Review on nuclear accident prevention on site. Accident prevention out of site, its establishments Managing accident prevention activities. Reducing effects of accidents, protecting the population. Training and exercises. Accident prevention plan of nuclear power plants. Establishments and instruments of informing the population on emergency. Contacting the media. Health care interventions. Technical instruments.

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:

Kanyár Béla, Marc de Cort, Nényei Áprád: Nukleárisbaleset-elhárítás telephelyen kívül, Veszprémi Egyetem Kiadó, Veszprém 2004. Veszélyhelyzeti beavatkozási intézkedések kidolgozásának módszerei nukleáris vagy radiológiai balesetekre, IAEA-TECDOC 953, 1997. NAÜ TECDOC No 955, IAEA, Vienna, 1997.