



SUBJECT DATASHEET

Semester:	2010/11/1
Subject:	Basics of Radiations
Code:	VEMKRK3321S
Responsible department:	Institute of Radiochemistry and Radioecology
Responsible department code:	MKRK
Responsible lecturer:	dr. Zoltán Németh

Educational objectives:

Providing basics of radioactivity and radiations in the environment

Detailed content of the subject:

Radiations in the nature, nonionizing and ionizing radiations. Structure of the nuclei, the Standard Model. Radioactivity, radioactive decay. Nuclear radiations. Interaction of nuclear radiations with matter. Basics of radiation dosimetry. Basics of the radiation protection. Detection of nuclear radiations.

Requirements:

Students have to write a test during the semester, and they got a mark based on the evaluation of the test. The evaluation is as follows: 27-30 points excellent (5) 23-26 points good (4) 19-22 points medium (3) 15-18 points pass (2)

Required and suggested references:

Németh Zoltán: Radiokémiai és izotóptechnikai alapismeretek (VE 1996)