

Study Programme :MSc in Ecology				
Level: master				
Course title: Radioecology				
Status: obligatory				
ECTS: 6				
Requirements: -				
Learning objectives Through this course students will learn the basic elements of Radioecology and sources of radioactivity in the environment, causes and consequences of radioactive pollution, as well as protection of the environment.				
Learning outcomes Subject Radioecology should enable students to acquire basic knowledge, skills and abilities they need for solving difficult problems that could meet in their practice. Getting familiar with these problems could help in better organization and efficiency for future radioecology action.				
Syllabus Radionuclides in nature. Terrestrial, cosmogony and artificial radionuclides. Alpha, beta and gamma emitters. Radionuclide transport through the ecosystem. Accumulation in critical media and at critical locations. The biological effects of ionizing radiation. Basic dosimetric units. Radio-toxicity and annual radiation dose. Radioactive waste and disposal of radioactive waste.				
Weekly teaching load				Other:
Lectures:3	Exercises:1	Other forms of teaching:1	Student research:	