

Subject: <b>Fundamentals of Health Risk Assessment</b>	Subject type:	<b>Compulsory Elective Courses</b>
Study year: <b>5.</b>	Content:	<b>2/0 winter time</b>
Study program: <b>General Medicine</b>		

## **Aim of the course**

Student of the subject will receive the knowledge about elementary roles of risk assessment in environment and occupational conditions.

**Education:** lectures

**Assessment:** written test, Exam

## ***Syllabus***

Risk assessment, risk evaluation, risk of exposure. The concept of concentration, dose, internal dose. The risk assessment is carried out in four basic steps: Identification of risk (hazard identification). Evaluation of the dose / concentration / level. Exposure - response / action on the body (evaluating the relationship dose - response). Risk management. Exposure assessment. The principles of risk assessment in the field of environmental and working environment. Risk characterization, the effective dose – response, method HIA. Specific approaches to analyze the environmental risk for the individual components of environment. Factors of working environment, exposure monitoring, qualitative and quantitative assessment. Effects of chemicals, carcinogens, mutagens and teratogens. Stochastic and non - stochastic effects. NOEL, LOEL RFD. Factors of change, uncertainty factor, confounding factor. Risks of physical activity (one term excessive burden, JNDZ). Risk management and risk categorization.