Study program/Study programs: Master academic studies: Environmental Risk Management (MASERS)

Type and level of studies: Master academic studies, II level of studies

Subject name: Environmental Risk and Impact Assessment	**Subject code**	6U1PRU

Professor: **dr Ivan Lovre, assistant professor**

Subject status: Mandatory

Number of ECTS:7

Condition: none

Subject goal

Introducing students to basic approaches of the risk management in the environment, mastering the basic steps of the procedure of the impact assessment of various human activities on the environment, and to deepen existing knowledge in the field of global challenges of today which violate the environment. It is extremely important to present to the students the models of the implementation of the process of environmental impact assessment and explain how to integrate the results of the assessment into long-term and short-term spatial and environmental planning.

Subject outcome

Ability to identify and recognize environmental risks, as well as mastering the basic principles of the procedure for the environmental risk assessment. This will enable students. This will enable students to actively paritcipate in the creation and implementation of plans for the system of ecological safety in working and living environments.Qualifying students for the involvment in the preparation of the impact assessment (facilities and works) on the environment at different levels within the system of management and environmental protection.

Subject content

Theoretical classes:

The study of methods for prediction and assessment of the environmental risk. Attention to the following topics: the global distribution of contaminants, bioaccumulation and bioconcentration in aquatic organisms, structure of the relation of the activities for predicting ecological impact of chemicals, predictable ecotoxicology, population modeling. The importance of the resources in terms of environmental risks. Risk assessment methods in the environment. Environmental impact assessment: the importance, goals, object of the impact assessment. The procedure environmental impact assessment. Impact assessment of objects and works in different industrial and economic sectors. Impact assessment of objects and works in protected areas. Methodology for evaluating the impact. Defining and the development of the phases of the environmental impact assessment, the algorithm of the analysis of the impact on the environment of one or more pollutants which may be present in the ecosystem. Case studies.

Practical classes:

Practical classes are conducted through audiovisual practices including analysis and assessment of environmental risks, evaluation as well as writing the proposal of plans for the risk management. Practical involvement and engagement of students in studies of impact assessment. In the case of the selected project and previously acquired knowledge in consultation with the teacher student defines the procedure of the impact assessment for the projects that might have significant impacts on the environment, then the content and the scope of the study on environmental impact assessment and other questions important for the environmental imapct assessment.

Literature

1. B. Marović, V. Avdalović: Osiguranja i upravljanje rizikom, Birografika, Subotica, 2005.
2. D. R. Simić: Nauka o bezbednosti, JP Službeni list SRJ i Fakultet političkih nauka, Beograd 2002.
3. Zoran V. Čvorović: Upravljanje rizicima u životnoj sredini, , Zadužbina Andrejević, Beograd, 2005.
4. Grupa autora: Analiza uticaja objekata i radova na životnu sredinu, Ministarstvo zaštite životne sredine, Beograd, 1996.
5. Grupa autora: Priperi studija o proceni uticaja na životnu sredinu, Sveska 4, Multimedija centar
6. Fakulteta za primenjenu ekologiju Futura, Beograd, 2008.
7. Lawrence, D. P.: Enviromental impact assessment: practical solutions to recurrent problems, John Wiley & Sons.New Jersey, 2003.
8. Richard T. Wright: Environmental Science, Pearson Prentice Hall, NJ, 2008.

Number of active teaching classes				Other classes
Lectures: 3(45)	Practices:2(30)	Other class forms: 1(15)	Study research work:	

Teaching methods

Lectures, audiovisual practices, two colloqiums, written exam. Interactive teaching through lectures and presentations and analysis of case studies and simulation workshops on various forms of environmental risks. Interactive teaching through lectures and presentations and practical training through simulation of making the risk assessment on a given case, and through the participation in public debates on the environmental risk assessment.

Knowledge evaluation (maximum number of points is 100)

Pre-exam obligations	**points**	Written exam	**points**
Activity during classes	10	Seminar paper	20
Practical classes	30	Oral exam	20
colloquiums (2x10)	20	.....	