

Study program: Bachelor academic studies: ECOLOGICAL ECONOMICS (BASEEC)		
Type and level of studies: Bachelor academic studies, I level		
Subject name: Ecological and Economic Environmental Risk Assessment	Subject code	6E3EEP
Professor: dr Ivan Lovre, assistant professor		
Subject status: Elective		
Number of ECTS: 6		
Condition: none		
Subject goal Introducing students to basic approaches to risk assessment in the environment, mastering the basic process steps of impact assessment of various human activities on the environment. It is extremely important to present to students the models of the implementation process of the environmental risk assessment how to integrate the assessment results 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 risk assessment procedures in the environment. This will enable students to actively participate in the creation and implementation of plans for the system of ecological safety in working and living environments. Qualifying students for involvement in the drafting of impact assessment (objects and works) to the environment at different levels within the system of management and environmental protection.		
Subject content <i>Theoretical classes</i> The study of methods for prediction and assessment of risks in the environment Attention to the following topics: the global distribution of contaminants, bioaccumulation and bioconcentration in aquatic organisms, structure activity relationships to predict the environmental effects of chemicals, predictive ecotoxicology, modeling population. The importance of 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 of 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 development phase of the procedure for evaluating the environmental impact, the algorithm analyzes of the impact on the environment of one or more pollutants which may be present in the ecosystem. Case studies. <i>Practical classes</i> Practical teaching is done through audio-visual exercises including analysis and assessment of environmental risks, evaluation as well as writing proposal of the 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 impact assessment procedure for projects that may have significant impacts on the environment, then the content and scope of the study on environmental impact assessment and other issues of importance for the environmental impact assessment.		
Literature 1. B. Marović, V. Avdalović: Osiguranje 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: Primeri studija o proceni uticaja na životnu sredinu, Sveska 4, Multimedija centar Fakulteta za primenjenu ekologiju Futura, Beograd, 2008. 6. Lawrence, D. P.: Environmental impact assessment: practical solutions to recurrent problems, John Wiley &		

Sons.New Jersey, 2003.

7. Richard T. Wright: Environmental Science, Pearson Prentice Hall, NJ, 2008.

Number of active teaching classes				Other classes
Lectures:2(30)	Practices: 2(30)	Other class forms:	Study research paper:	
Teaching methods				
Lectures, practices, field work, consultations, colloquium, seminar paper, written and oral exam.				
Knowledge evaluation (maximum number of points is 100)				
Pre-exam obligations	points	Final exam	points	
Activity during classes	10	Written exam	20	
Practical classes	30	Oral exam	20	
colloquium	20			