

Study program: Master academic studies Environmental Economics and Climate Change (MASECC)		
Type and level of studies: Master academic studies, II level		
Subject name: Adaptation and Climate Change Mitigation	Subject code	6M1PKP
Professor: dr Jelena Ž. Veličković, assistant professor		
Subject status: Elective		
Number of ECTS: 6		
Condition: none		
Subject goal Familiarizing with the policy, Getting to know the policy, legislation and methods of adaptation of species to changes of environmental conditions, and mitigation of climate change. Familiarizing with the necessity for human intervention in order to improve the adaptability of plant and animal species, as well as mitigating the effects of the change of climate for sustainable development.		
Subeject outcome Students are able to recognize and understand the importance of sustainable management of natural resources in order to adapt to and mitigate the effects of climate change. Students have knowledge about the importance of human intervention in order to improve the sustainability of the population, as well as the existing approaches and methods for achieving this goal.		
Subject content <i>Theoretical classes</i> Adaptation and mitigation of climate change as an international obligation. The obligations of the Republic of Serbia to the United Nations. The obligations of the Republic of Serbia towards the European Union. The national plan for adaptation to climate change. Assessment of vulnerability to climate change and an action plan for the adaptation of the City of Belgrade. Paleoclimatology and phylogeography in the planning of adaptation measures and mitigation. Measure of adaptation and mitigation in the sector of agriculture and land management. Mitigation and adaptation measures in the water sector and water resource management. Measures of adaptation and mitigation in the forestry sector. Mitigation and adaptation measures in nature protection and biodiversity conservation. Genetic resources and adaptation. Adaptation, mitigation and rural development. Gender equality, social inclusion and climate change. Application of ecological modeling in planning measures of adaptation and mitigation. <i>Practical classes</i> Study research paper on the development of the impact assessment of climate change on selected resources, locations and activities. Practical work on computers using software packages for evaluation and modeling of biological corridors and other measures of adaptation and mitigation of species.		
Literature 1. Milovanović J, Djordjević S. (ured.) Očuvanje i unapredjenje bioloških resursa u službi ekoremedijacije. Ministarstvo prosvete, nauke i tehnološkog razvoja i fakultet za primenjenu ekologiju Futura, Univerzitet Singidunum Beograd. 407 str. 2. Šijačić-Nikolić, M., Milovanović J. (2010) Konverzacija i usmereno korišćenje šumskih genetičkih resursa. Šumarsko fakultet Univerzitet u Beogradu. Planeta print Beograd. 200str. 3. Djordjević-Milošević S. Milovanović J. (2012). Održivi turizam u funkciji ruralnog razvoja-Mala poljoprivredna gazdinstva i ruralni turizam u Srbiji. Fakultet za primenjenu ekologiju Futura, Beograd, Agroznanje, FAO, 247str. 4. Šijačić-Nikolić, M., Milovanović, J., Nonić, M. (2014): Conservation of Forest Genetic Resources. In: Ahuja, M.R. & Ramawat, K.G. (eds.): Biotechnology and Biodiversity. Springer. pp: 103-128. 5. Ministarstvo životne sredine i prostornog planiranja (2010): Prvi izveštaj Republike Srbije prema Okvirnoj konvenciji Ujedinjenih Nacija o promeni klime. 176str. 6. Ministarstvo poljoprivrede i zaštite životne sredine (2015): Drugi izveštaj Republike Srbije prema Okvirnoj konvenciji Ujedinjenih Nacija o promeni klime. 7. Grad Beograd, GIZ (2014): Procena ranjivosti na klimatske promene i Akcioni plan adaptacije, 76 str. 8. Dorđević-Milošević, S., Milovanović, J. (2014): Linking Rural Livelihood Diversity and Sustainable Development. Faculty of Applied Ecology Futura Singidunum University Belgrade. 193 p. 9. Radojević U., Milovanović J. (2014): Ekološko modelovanje U: Primenjena ekologija, Vodič, Green Limes, Fakultet za primenjenu ekologiju Futura, Ministarstvo poljoprivrede i zaštite životne sredine str 333-371. 10. Radojević U., Milovanović J. (2014): Ekoklimatologija. Fakultet za primenjenu ekologiju „Futura“. 147str.		
Number of active teaching classes	Other classes	

Lectures: 2(30)	Practices: 1(15)	Other class forms:	Study research paper:1 (15)	
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Teaching methods

Interactive teaching, audiovisual practices, working in small groups, participative learning, colloquium, written exam.

Knowledge evaluation (maximum number of points is 100)

Pre-exam obligations	points	Final exam	points
Activity during lectures	10	Written exam	40
Practical classes	20	Oral exam	
Colloquium	10		
Seminar paper	20		