

Study program: Master academic studies Environmental Economics and Climate Change (MASECC)			
Type and level of studies : Master academic studies, II level			
Subject name: Climate Change and Preservation of Biodiversity		Subject code	6M1KPB
Professor: dr Božo Drašković, professor			
Subject status: Elective			
Number of ECTS: 6			
Condition:			
Subject goal: Introduction and consideration of the potential intensity of the upcoming climate change and threats to the survival of the species in new environmental conditions. Getting to know the necessity of the human intervention in order to improve the adaptability of plant and animal populations.			
Subject outcome: Students are trained to recognize and understand the importance of the impact of climate change parameters on survival and preserving the balance of populations of species. Students have knowledge about the importance of human intervention in order to improve the sustainability of the population, as well as on existing approaches and methods for achieving this goal.			
Subject content <i>Theoretical classes.</i> Climate changes and biodiversity preservation in an international context. Global and regional climate changes in the reports of the Intergovernmental Panel on Climate Change. Threats and vulnerabilities of biodiversity. Potential limitations in the life cycle of species due to climate change. Types of mechanisms for the alleviation of the consequences. Methods for assessing the degree of variability of the population in order to adapt to climate change. Priorities when planning preservation of biological resources, and climate change alleviation. Adaptation of the forest ecosystems to climate changes and the measures of improvement. Adaptations of wetlands to climate change and conservation measures. Methods of preservation and improvement of genetic resources in accordance with climate change. Biodiversity, climate change and rural development. Project activities to improve the adaptability of populations of the species under climate change. The strategy of preserving biodiversity in accordance with climate change. Economic aspects of the preservation of biodiversity in accordance with climate changes. Application of ecological modeling in the preservation of biological resources in accordance with the climate change. <i>Practical classes</i> Methods and models of passive and active protection of biodiversity through field work. Research work on the development of strategies and programs of conservation of endangered species due to consequences of climate change.			
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 razvoja. 407 str. 2. Шијачић-Николић, М., Миловановић, Ј. (2010): Конзервација и усмерено коришћење шумских генетичких ресурса. Шумарски факултет Универзитета у Београду. Планета принт Београд. 200 стр. 3. Ђорђевић-Милошевић, С., Миловановић, Ј. (2012): Одрживи туризам у функцији руралног развоја – Мала пољопривредна газдинства и рурални туризам у Србији, Факултет за примењену екологију Фатура Београд, Агрознање, ФАО, 247 стр. 4. Шијачић-Николић, М., Миловановић, Ј., Нонић, М. (2014): Шумски генетички ресурси у Србији – стање и предлози за унапређење ове области. Гласник Шумарског факултета „Шуме Србије и одрживи развој“. стр. 51-70. 5. 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. 6. Geburek, T., Turok, J (2005): Conservation and Management of Forest genetic Resources in Europe, Arbor Publishers, Slovakia. 7. Đorđević-Milošević, S., Milovanović, J. (2014): Linking Rural Livelihood Diversity and Sustainable Development. Faculty of Applied Ecology Futura Singidunum University Belgrade. 193 p. 8. Радојевић, У. и Миловановић, Ј. (2014): Еколошко моделовање. У: Примењена екологија - Водич, Green Limes, Факултет за примењену екологију Фатура, Министарство пољопривреде и заштите животне средине, стр. 333-371. 9. Миловановић, Ј. (2012): Заштита угрожених врста. Факултет за Примењену екологију „Фатура“. 147 стр. 10. Milovanović, J., Radojević, U. (2014): Ekoklimatologija. Fakultet za Primenjenu ekologiju „Futura“. 147 str.			
Number of active teaching classes			Other classes
Lectures: 2 (30)	Practices: 1(15)	Other class forms: 1(15)	SRW:
Teaching methods Interactive lectures, audiovisual practices, work in small groups, participatory learning, colloquium and 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		