

<b>Study program:</b> Biology			
<b>Type and level of studies:</b> Doctoral academic studies (DAS)			
<b>Course unit:</b> B317 Biology and protection of chosen taxon			
<b>Teacher in charge:</b> Mirjana M. Stojanovic-Petrovic, PhD; Svetlana M. Milosevic-Zlatanovic, PhD; Gorica T. Djelic, PhD; Snezana B. Pesic, PhD			
<b>Language of instruction:</b> English			
<b>ECTS:</b> 15			
<b>Prerequisites:</b> /			
<b>Semester:</b> Summer			
<b>Course unit objective</b> Gaining more precise, more comprehensive and more contemporary knowledge in the biology of the chosen taxon, whereby special emphasis is put on developing awareness of further improvement through logical and critical thinking and the ultimate ethical attitude towards the problem being solved.			
<b>Learning outcomes of Course unit</b> The trained expert capable of independently applying the acquired professional and practical knowledge in the biology of the chosen taxon, taking into account the accuracy, precision and real possibility in solving the protection problem.			
<b>Course unit contents</b> Depending on the student's interest and the topic of the chosen narrow scientific discipline of the PhD thesis, the candidate opts for the taxon. Overview of the current systematics of the selected taxon. Ecological niche and life form. Ecological factors and the chosen taxon: relation to temperature, light, humidity, and other abiotic factors. Trophic factors. Biotic factors - relationships within the species and relationships with other species. Individuals number, spatial distribution, age and gender structure and health status of the population. Behavior, birth rate, mortality, population dynamics in space and time. Zoocenosis/ae. Biocenosis/ae. Ecosystem (s). The role and importance of that ecosystems in the movement of matter and energy. Areal, distribution centers and origin of species. Displacement options. Periodic migration (depending on taxon selection). Anthropogenic influences. Selected taxon and bioindication. Possibilities for protecting the selected taxon. Sampling techniques. Absolute and relative estimates of the population parameters of the selected taxon. Estimates of wealth of taxon.			
<b>Literature</b> - Bardget R. (2008): The Biology of Soil – A community and Ecosystem Approach. Oxford University Press. - Chapman JL & Reiss MJ. (2003): Ecology – Principles and Applications. Second edition. Cambridge University Press. - Danchin É., Giraldeau L-A., Cézilly F. (2008): Behavioural ecology. Oxford University Press. - Davies N.B., Krebs J.R., West S.A. (2012): An introduction to behavioural ecology. Fourth edition. WileyBlackwell. ☐ - Dobson M & Frid C. (2009): Ecology of Aquatic Systems. 2 <sup>nd</sup> edition. Oxford University Press. - Pešić S. (2011): The Fundamentals of Ecology. Faculty of Natural Sciences and Mathematics, Kragujevac. (in Serbian) - Southwood TRE, Henderson PA. (2004): Ecological methods. 4 <sup>th</sup> edition Blackwell Science. - Stevanovic V. (editor 1999): Red Book of flora of Serbia I; Disappeared and extremely endangered taxa, XIII. Ministry for environmental protection of the Republic of Serbia, the Faculty of Biology University of Belgrade and the Institute for the Protection of Nature of the Republic Serbia, Belgrade. - other Red Books - Various other printed and electronic sources			
<b>Number of active teaching hours</b>			Other classes:
Lectures: 120	Practice:	Other forms of classes:	
Independent work:			
<b>Teaching methods</b> Power-point presentations and dialogue, practical work in the laboratory and in the field, in the group and individual			
<b>Examination methods (maximum 100 points)</b>			
<b>Exam prerequisites</b>	<b>No. of points</b>	<b>Final exam</b>	<b>No. of points</b>
Activity during the lectures	10	Written examination	-
Seminar paper	40	Oral examination	40
Tests/colloquiums	10	Other	
<b>Grading system</b>			
<b>Grade</b>	<b>No. of points</b>	<b>Description</b>	
10	>= 91	Excellent	
9	81-90	Exceptionally good	
8	71-80	Very good	
7	61-70	Good	
6	51-60	Passing	
5	<=50	Failing	