

NAME OF THE COURSE		Animal behavioural ecology					
Code	PMB537	Year of study	2.				
Course teacher	Mate Šantić, PhD, Full Professor Antonela Paladin, PhD, Assistant Professor	Credits (ECTS)	2				
Associate teachers		Type of instruction (number of hours)	L	S	E	F	
			15	15			
Status of the course	elective	Percentage of application of e-learning	10				
COURSE DESCRIPTION							
Course objectives	The aim of the course is to introduce students to the basic patterns of animal behavior and the most important theories that explain the relationship between behavior and environmental conditions.						
Course enrolment requirements and entry competences required for the course	Ability to apply elementary knowledge of biology and ecology.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>After successfully completing the course the student will be able to:</p> <p>Understand the impact of environmental conditions on various aspects of animal behavior.</p> <p>Analyze the basic principles of natural and sexual selection.</p> <p>Apply the model in evaluating the performance of different behavioral strategies.</p> <p>Apply the principle of "evolutionarily stable strategy" in behavioral forecasts.</p>						
Course content broken down in detail by weekly class schedule (syllabus)	<p>Lecture 1. Natural selection, ecology and behavior</p> <p>Lecture 2. Evolutionary arms race</p> <p>Lecture 3. Economic decisions</p> <p>Lecture 4. Competition for resources</p> <p>Lecture 5. Group life</p> <p>Lecture 6. Game theory</p> <p>Lecture 7. Evolutionarily stable strategy</p> <p>Lecture 8. Gender conflicts and gender selection</p> <p>Lecture 9. Parental care and types of mating</p> <p>Lecture 10. Alternative strategies in raising offspring</p> <p>Lecture 11. Selfishness and altruism</p> <p>Lecture 12. Reciprocity</p> <p>Lecture 13. Cooperation and helping</p> <p>Lecture 14. Altruism in social insects</p> <p>Lecture 15. Evolution and ecology of signals</p> <p>SEMINARS:</p> <p>During the semester, each student is required to write a seminar paper on a given basis topic and present it to other students.</p>						
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				
Student responsibilities							
Screening student work ( <i>name the</i>	Class attendance	0,5	Research		Practical training		

<i>proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)</i>	Experimental work		Report		(Other)	
	Essay		Seminar essay	0,5	(Other)	
	Tests		Oral exam		(Other)	
	Written exam	1	Project		(Other)	
Grading and evaluating student work in class and at the final exam	The written exam, seminar paper (topic processing and paper structure; graphic and other attachments; literature) and regular class attendance.					
Required literature (available in the library and via other media)	<b>Title</b>				<b>Number of copies in the library</b>	<b>Availability via other media</b>
	Šolić, M. 2012. Umijeće življenja. Izvori, Zagreb				1	
Optional literature (at the time of submission of study programme proposal)	<p>John R. Krebs and Nicholas B. Davies (eds.). 1993. Behavioural Ecology: An Evolutionary Approach. Blackwell, London.</p> <p>John Alcock. Animal Behavior: An Evolutionary Approach. 1997. Sinauer Associates.</p> <p>Richard Dawkins. 1997. Sebični gen. Izvori. Zagreb</p> <p>Richard Dawkins. 1982, 1999. The extended phenotype. Oxford University Press</p>					
Quality assurance methods that ensure the acquisition of exit competences	<p>Active participation in classes.</p> <p>Student teacher and subject evaluation survey.</p> <p>Feedback from students</p>					
Other (as the proposer wishes to add)						