

NAME OF THE COURSE		General Zoology				
Code	PMB013	Year of study	1			
Course teacher	Associate Professor Biljana Apostolska, PhD	Credits (ECTS)	6			
Associate teachers	Assistant Professor Sanja Puljas, PhD	Type of instruction (number of hours)	L	S	E	F
			30		45	
Status of the course	Mandatory	Percentage of application of e-learning	10%			
COURSE DESCRIPTION						
Course objectives	<ul style="list-style-type: none"> <li>- to understand and use knowledge and terms from morphology, systematics, filogeny and evolution of animals</li> <li>- to be able to explain and compare different organs and their development between different groups of animals</li> <li>- to recognize all kind of animal tissue and organs by microscope</li> <li>- embriology and postembriology of animals</li> <li>- those lectures and knowledge is necessary for understanding other zoology lectures on the higher level of study</li> </ul>					
Course enrolment requirements and entry competences required for the course	There are no entry competences					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>Student will be able to:</p> <ol style="list-style-type: none"> <li>1. define systematics and taxonomy of Regnum animalium</li> <li>2. binar nomenclature and latin names</li> <li>3. description of organs and their physiology</li> <li>4. to define and use basic zoological terms</li> <li>5. independent use of microscope and stereozoom microscope –</li> <li>6. independent use of laboratory instruments</li> </ol>					
Course content broken down in detail by weekly class schedule (syllabus)	<p>Lectures:</p> <ol style="list-style-type: none"> <li>1. Zoology - introduction</li> <li>2. Evolution, Darwin and Wallace, theory of evolution, mechanisms, mikroevolution, makroevolution, variability, definition of population and species, isolation mechanisms, speciaation, systemacs, taxonomy, the principles of classification of animals, filogeny, zoological nomenclature, Linne, cladistics, the basic methodology in zoological research,</li> <li>3. Prokariotes and Eukariotes, evolution of metazoans, Theories of Metazoa,</li> <li>4. Protozoa, Metazoa, Ameria, Polymeria, Oligomeria, Tunicata, Cephalochordata, Cyclostomata, Chondrichthyes, Osteichtyes, Amphibia, Reptilia, Aves, Mammalia,</li> <li>5. The structure and function of organs and organ systems</li> <li>6. Integument organs</li> <li>7. Skeletous organs</li> <li>8. Muscular system</li> <li>9. Neurological system of organs with receptors</li> <li>10. Respiratory system</li> <li>11. Circulatory system of organs</li> <li>12. Digestive organs</li> </ol>					

	13. Excretory system 14. Reproduction in animals 15. Hormones Exercises: 1. Microscope 2. Promorfology I 3. Promorfology II 4. Integument organs 5. Skeleton 6. Muscles 7. Neuron system of organs 8. Receptors 9. Digestive organs 10. Respiratory system 11. Circulatory system 12. Excretory organs 13. Reproduction 14. Embriology 15. Postembriology					
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input checked="" 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	To participate on lectures and exercises in full					
Screening student work ( <i>name the 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> )	Class attendance	1,0	Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay	1,0	(Other)	
	Tests	2,0	Oral exam	1,0	(Other)	
	Written exam	1,0	Project		(Other)	
Grading and evaluating student work in class and at the final exam	Two partial exams; first one after the lectures Digestive system, second one at the end of subject. Students who didn't pass the partial exams are obligate to pass written exam inside the regular date. The lectures from laboratory skills are included in written exam.					
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>	
	Matoničkin, I., Erben, R. (2002): Opća zoologija. Školska knjiga, Zagreb.			2		
	I., Erben, R., Habdija, I. (1983): Praktikum iz opće zoologije. Sveučilište u Zagrebu, Zagreb.			2		
Optional literature (at the time of submission of study)	Miller, S.A., Harley, J.P. (2004): Zoology. McGraw-Hill, Boston. Hickman, C. Jr., Roberts, L., Larson, A., l'Anson, H. (2003): Integrated Principles of					

programme proposal)	Zoology.McGraw-Hill, Boston. Wheater's Functional Histology: a text and colour atlas, ed. B. Young, J.W. Heath, Churchill Livingstone, London, 2001
Quality assurance methods that ensure the acquisition of exit competences	Students questionnaires, consultations, evaluation of lectures
Other (as the proposer wishes to add)	