

NAME OF THE COURSE		Surveys in Teaching Methods in Biology					
Code	PPB252	Year of study	2				
Course teacher	Associate Professor Mirko Ruščić, PhD	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					
COURSE DESCRIPTION							
Course objectives	Adopting knowledge on research teaching and applying knowledge in research, designing a research project, setting up a research question and setting up a hypothesis, analyzing how to approach research questions						
Course enrolment requirements and entry competences required for the course	Course taken: Biology Education I Entry competences: basic methodical knowledge, competence in biology						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Student will be able to: 1. Explain the research teaching. 2. Determine the stages in the research. 3. Link research teaching with scientific research. 4. Create a research project. 5. Set up a research question and a hypothesis. 6. Designing parts of research work. 7. Evaluate research work.						
Course content broken down in detail by weekly class schedule (syllabus)	Lectures: / Exercises: 1. Research teaching. 2. Etape Research Scientific Research. 3. Dependent and independent variables 4. Research question and hypothesis. 5. Draft research. 6. Resolving the Research Question. 7. Parts of research work. 8. Steps in Research. 9. Evaluation of research work						
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> on line in entirety <input type="checkbox"/> partial e-learning <input checked="" type="checkbox"/> field work			<input checked="" type="checkbox"/> independent assignments <input checked="" type="checkbox"/> multimedia <input checked="" type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	Regular attendance of lectures, solving individual tasks. Development of a research project in Biology						
Screening student work (name the proportion of ECTS credits for	Class attendance	1	Research		Practical training		
	Experimental work		Report				

<i>each activity so that the total number of ECTS credits is equal to the ECTS value of the course)</i>	Essay		Seminar essay	0,5		
	Tests		Oral exam	0,5		
	Written exam		Project			
Grading and evaluating student work in class and at the final exam						
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Bruening, L. 2008. By studying to successful teaching: how to activate students and encourage them to cooperate. Naklada Kosinj. Zagreb.					
	Chinery, Michael (1989) 1000 ideas for natural scientists. Mladjan knjiga, Ljubljana					
	Breiting S., Mayer M., Mogensen F.(2005.): Quality Criteria for ESD Schools. Austrian Federal Ministry od Education, Science and Culture, Vienna.;					
	www.ensi.org/Publications Espinet M., Mayer M., Rauch F., Tschapka J. (2005.): Tools for ESD schools. Austrian Federal Ministry of Education, Science and Culture, Vienna;					
	www.ensi.org/Publications Riedl, R.: Fauna und Flora des Mittelmeeres.- Verlag Paul Parey, Hamburg, 1983. Primack, R.B. (2014): Essentials of Conservation Biology. 6th edition. Sinauer Associates Inc., Sunderland, Massachusetts, USA, 601 pp					
	Van Dyke, F. (2008): Conservation Biology: Foundations, Concepts, Applications. 2nd. edition. Springer, 478 pp					
	Radović J. (ed.) (1999): An overview of the state of Croatia's biological and landscape diversity with strategy and action plans for protection. DUZPO, Zagreb Liber Z. 2014.					
	Field Training from Systematic Botany. DVD release					
Optional literature (at the time of submission of study programme proposal)	<p>Bakran-Petricioli, T. (2007): Marine habitats - Manual for Inventory and Status Monitoring (Series of Biodiversity of Croatia, ISBN 978-953-7169-31-2). State Institute for Nature Protection, Zagreb, 56 p. + 102 pages. Attachments http://www.dzpz.hr/publikacije/prirucnici/bioloska-raznolikost-hrvatske-prirucnici-za-inventarizacija-i-pracenje-stanja-536.html</p> <p>Domac R. 1994 Flora Croatia. Plant Detection Manual, School Book, Zagreb</p> <p>Nikolić, T. 1996 Herbaric Manual. Školska knjiga, Zagreb</p> <p>Nikolić T., Topić J. 2005. Red Book of Vascular Flora of Croatia, Ministry of Culture, SINP, Zagreb</p>					

	Nikolić T. 2013 Praktikum from systematic botany. Variety and evolution of the plant world. Alfa, Zagreb
Quality assurance methods that ensure the acquisition of exit competences	Active participation in teaching, evaluation of subjects and teachers, consultations.
Other (as the proposer wishes to add)	