

NAME OF THE COURSE		Population Genetics					
Code	PMB726	Year of study		2			
Course teacher	Ozren Polašek, PhD, Professor	Credits (ECTS)		3 ECTS			
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	To develop a mix of the knowledge and skills required to understand the basic and advanced concepts in the contemporary population genetics						
Course enrolment requirements and entry competences required for the course	Completed course in genetics, statistics and study design						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none"> • Interpret the basic principles of population genetics • Explain the concepts that shape population, including evolution, mutation, natural selection • Familiarize with the basic concepts of population genetics of small and isolated populations, including drift, founder effect and inbreeding • Describe the main principles of mate selection • Explain the basics of human evolution 						
Course content broken down in detail by weekly class schedule (syllabus)	<ol style="list-style-type: none"> 1. Population genetics – introduction 2. Main genetic forces that shape the population 3. Mutation, selection and evolution 4. Evolution of hominid species 5. Archaeogenetics 6. Partner selection as the main evolutionary force 7. Genetics of isolated human populations 8. Population genetics on a global scale 						
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	Participate in the course						
Screening student work (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)	Class attendance	1	Research		Practical training		
	Experimental work		Report		(Other)		
	Essay		Seminar essay		(Other)		
	Tests		Oral exam		(Other)		
	Written exam	2	Project		(Other)		

Grading and evaluating student work in class and at the final exam	Grading will be conducted based on activities in class, seminar work and final written exam.		
Required literature (available in the library and via other media)	Title	Number of copies in the library	Availability via other media
	1. Hamilton M. Population genetics. Wiley-Blackwell, 2009	0	
	2. Relethford JH. Human Population Genetics. Wiley-Blackwell, 2012	0	
Optional literature (at the time of submission of study programme proposal)	Selected original and review scientific articles.		
Quality assurance methods that ensure the acquisition of exit competences	Students' evaluation via anonymous questionnaires at the end of the course. The survey is conducted according to the rules of the University of Split.		
Other (as the proposer wishes to add)			