

NAME OF THE COURSE		The Secret Life of a Cell					
Code	PMB414	Year of study	3				
Course teacher	Assistant Professor Elma Vuko, 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	20 %				
COURSE DESCRIPTION							
Course objectives	The aim of this course is to familiarize students with up to date knowledge in the field of cell biology. Students will upgrade previously acquired cell biology knowledge by critical thinking and studying of topics related to the life of the cell. The attention will be focused on topics of particular interest to enrolled students.						
Course enrolment requirements and entry competences required for the course	Attended course of Cell Biology						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>After completing the course students will be able to:</p> <ol style="list-style-type: none"> 1. Identify areas related to life, structure and function of cells in the rapid development 2. Understand the specificity of cellular structures of living cells 3. Critically apply cell biology knowledge to understand the life of cells 4. Recognize the link between scientific discoveries in the field of cell biology and other scientific disciplines (medicine, food biotechnology, biochemistry, agronomy, ecology, etc.) 5. Use the scientific literature and 6. Summary relevant literature in the form of a popular scientific presentation 						
Course content broken down in detail by weekly class schedule (syllabus)	Course content is planned according to the current findings in the field of cell biology. It will cover topics that will enable students to apply previously acquired knowledge to think critically about the structure and function of cells. Specificity of cellular structures of living cells, the appearance of aging and disease at the cellular level and other topics depending on the interests of students will be covered. Each student presents one topic, lecturer five topics chosen by the students.						
Format of instruction	x lectures x seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety x 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	Students' presence in the amount of at least 80% of scheduled lectures and seminars. Students must prepare and present seminar paper.						
Screening student work (name the proportion of ECTS credits for each activity so that the total number of	Class attendance		Research		Practical training		
	Experimental work		Report		(Other)		
	Essay		Seminar essay	1.0	(Other)		

<i>ECTS credits is equal to the ECTS value of the course)</i>	Tests		Oral exam	1.0	(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Students will be evaluated through oral exam and seminar essay. Seminar work and oral exam individually contribute 50% of the total mark.					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Odabrana poglavlja iz: G. M. Cooper, R. E. Hausman, Stanica: molekularni pristup, Medicinska naklada, Zagreb, 2010.			5		
	Odabrana poglavlja iz: Alberts, B., Bray, D., Levis, J., Raff, M., Roberts, K., Watson, J.D. (1994 ili novija izdanja): Molecular Biology of the Cell. Garland Publishing, New York			1		
	Odabrana poglavlja iz: M. W. Berns: Stanica, Školska knjiga, Zagreb, 1997.			2		
	Odabrana poglavlja iz: T. Bašić-Zaninović , N. Perić: Biologija - putovanje kroz život, Kugler d.o.o., Zagreb, 2004			1		
Optional literature (at the time of submission of study programme proposal)	Relevant scientific publications, critically evaluated sources from the Internet					
Quality assurance methods that ensure the acquisition of exit competences	Attendance of students during classes; students' survey of teacher's work; feedback from graduated students on the relevance of the course content					
Other (as the proposer wishes to add)						