

NAME OF THE COURSE		Biological oceanography					
Code	PMB513	Year of study	2.				
Course teacher		Credits (ECTS)	4				
Associate teachers	Antonela Paladin, PhD Assistant Professor	Type of instruction (number of hours)	L	S	E	F	
			30	15			
Status of the course	mandatory	Percentage of application of e-learning	10%				
COURSE DESCRIPTION							
Course objectives	The aim of the course is to introduce students to the biology of marine organisms and their role in the ecosystem. Introduce them to the origins of life in the seas, with an emphasis on importance of individual groups in marine planktonic and benthic communities ecosystems, adaptations of organisms to different habitats and human impact.						
Course enrolment requirements and entry competences required for the course	None						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>After the course the student will be able to:</p> <ul style="list-style-type: none"> <li>• Define and describe the basic concepts of marine biology and oceanography.</li> <li>• Analyze and understand biotic ocean systems and the organisms that inhabit them.</li> <li>• Analyze the ways in which organisms inhabit ocean ecosystems.</li> <li>• Connect the adaptations of organisms and their habitats.</li> <li>• Understand marine biogeochemical cycles.</li> <li>• Analyze the oceanography and biology of the Adriatic and Mediterranean Seas.</li> </ul>						
Course content broken down in detail by weekly class schedule (syllabus)	<ol style="list-style-type: none"> <li>1. Introduction to oceanography and marine biology.</li> <li>2. Sea bed.</li> <li>3. Chemical and physical aspects of sea water and world oceans.</li> <li>4. Oceanic environments considering topography.</li> <li>5. Zoning of oceanic environments considering bathymetry.</li> <li>6. Wildlife in the sea and settlement zones.</li> <li>7. The role of marine organisms in biogeochemical processes.</li> <li>8. Ecological regulators of distribution of marine organisms in the sea.</li> <li>9. Structure and role of marine ecosystems.</li> <li>10. Estuaries and sea spray area, coral reefs.</li> <li>11. Coastal sea and continental shelf.</li> <li>12. Open Sea Organisms.</li> <li>13. Life in the depths of the sea.</li> <li>14. Hazards to ocean ecosystems.</li> <li>15. Oceanography and biology of the Adriatic and Mediterranean seas.</li> </ol>						
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 (name the proportion of ECTS credits for each activity so that the total number of	Class attendance	1	Research		Practical training		
	Experimental work		Report		(Other)		
	Essay		Seminar essay	1	(Other)		

<i>ECTS credits is equal to the ECTS value of the course)</i>	Tests		Oral exam	1	(Other)	
	Written exam	1	Project		(Other)	
Grading and evaluating student work in class and at the final exam	The written part of the seminar paper is evaluated (topic processing and paper structure; graphic and other attachments; literature), presentation of seminar paper and written and oral 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>	
	Miller, C. B., 2004. Biological oceanography. Blackwell, Oxford			2		
	Castro, P., Huber, M. E., 2005. Marine Biology. McGraw-Hill, New York.			2		
	Karleskint, G., Turner, R., Small, J 2006. Introduction to Marine Biology. Thomson brooks/Cole			1		
Optional literature (at the time of submission of study programme proposal)	Peres, J. M., Gamulin-Brida, H. 1973. Biološka oceanografija. Školska knjiga, Zagreb. Viličić, D. 2002. Fitoplankton Jadranskog mora. Školska knjiga Zagreb. Viličić, D. 2003. Fitoplankton u ekološkom sustavu mora. Školska knjiga Zagreb.					
Quality assurance methods that ensure the acquisition of exit competences						
Other (as the proposer wishes to add)						