NAME OF THE COL	Natural toxins in the sea										
Code	PPC210			Year of st	udy	3.					
Course teacher	dr. sc. Stjepan Orhanović, assistant professor			Credits (E	ECTS)	2,0	2,0				
Associate teachers				Type of ir (number of		15	S	E	F		
Status of the course	electional			Percentaç applicatio	ge of on of e-learning	10%	10%				
	COURSE DESCRIPTION										
Course objectives	Course objective is acquiring knowledge about various sources of toxicity originating in the sea and their influence on the human health										
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)	 Upon completing exam student will be able to: recognize sources of toxicity in the marine environment comprehend influence of the toxicity originating from phytoplanktons on the shellfish farming and humans acquire insight in frequency and spatial distribution of the phytoplankton species responsible for shellfish intoxication in the Adriatic sea know methods and techniques of analysis of the shellfish toxicity 										
Course content broken down in detail by weekly class schedule (syllabus)	Lectures: 1. Eutrophication and the red tide (1 hour) 2. Phytoplankton species – producers (1 hour) 3. Diarrheic toxins (2 hours) 4. Paralytic toxins (2 hours) 5. Neurotoxins (2 hours) 6. ASP (2 hours) 7. Cyanotoxins, azaspiroid intoxication (1 hour) 8. Ciguatera intoxication (1 hour) 9. Analytical methods: Mousse bioassay, HPLC, mass spectrometry, MALDI-TOF (2 hours) 10. Overview of the present state in the Adriatic (1 hour)										
Format of instruction	IectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectuIectu<!--</td--><td>ıres inars an</td><td>d worksho</td><td></td><td></td><td colspan="4">mentor</td>	ıres inars an	d worksho			mentor					
Student responsibilities	Attending classes and preparing seminar as a PPT presentation.										
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		0,5	Research		Practical	training				
	Experimental work			Report		(0	ther)				
	Essay			Seminar essay	0,5	(O	ther)				
	Tests			Oral exam	1	(O	ther)				
	Written exam			Project		,	ther)				
Grading and evaluating student work in class and at the final exam	Power point presentation on the chosen subject with reflection on the causes, influence, frequency and spatial distribution of intoxication and related analytical methods										
Required literature	Title Number of Availability via										

(available in the library and via other		copies in the library	other media			
media)	Scientific articles on the subject presented					
·	, ,					
Optional literature						
(at the time of						
submission of study						
programme						
proposal)						
Quality assurance	Personal consultations, students survey for the evaluation of the subject and teacher, evidence of the presence on the classes.					
methods that						
ensure the						
acquisition of exit						
competences						
Other (as the						
proposer wishes to						
add)						