NAME OF THE COU	RSE	ALGAE AND FUN	GI						
Code	PMB02	28	Year of study	2					
Course teacher	Associate Professor Ana Maravić, PhD		Credits (ECTS)	5					
Associate teachers	Tomislav Rončević, PhD Mandatory		Type of instruction (number of hours)	L 30	S	E 30	F		
Status of the course			Percentage of application of e-learning	20%		00			
	<u> </u>	COURS	E DESCRIPTION	<u> </u>					
Course objectives	To gain knowledge of the biodiversity of algae in terms of their biology and ecology, the phylogeny of algae that live in inland waters and sea, their ecological importance in the food chain, biodiversity and economic aspects. Based on taxonomic and phylogenetic connections master the skills of determination and microscopic analysis of cellular material algae. To gain knowledge about the biology of organisms that modern phylogenetic systematics puts into the realm of fungi. Meet representatives of the group and the organization of systematic categories of								
Course enrolment requirements and entry competences required for the course	the fungi. No requirements needed.								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Students will be able to: Define the general characteristics of algae and fungi. Know representatives of the main groups based on cytology, ultrastructure of cells and structures of the talus. Define taxonomic and phylogenetic relations. Know the biology and ecology of representatives of the main group of algae, and fungi. Apply the skills of microscopic analysis and determination of freshwater and marine algae. Make a permanent preparations of algae. Name microscopic fungi of medical importance. Apply specific methods for the isolation and cultivation of clinically significant microscopic fungi. Evaluate the morphological features of individual taxonomic groups important for species identification. 								
Course content broken down in detail by weekly class schedule (syllabus)	 Lectures: 1. Introduction, classification and nomenclature of algae (2 hours) 2. Citology and ultrastructure of cells and structures of the talus (2 hours) 3. Distribution and reproduction, biochemical and physiological characteristics of algae (2 hours) 4. Ecology and evolution and classification of algae (2 hours) 5. Laboratory rearing, economic aspect and their importance in nature (2 hours) 6. Algae as indicators of contamination of aquatic ecosystems (2 hours) 7. Knowing the basic characteristics of prokaryotic algae: Cyanobacteria. Phytoplankton size and importance (2 hours) 8. Eukaryotic representatives algae Rhodophyta (red algae) (2 hours) 9. Euglenophytes and Chrysophyta (2 hours) 10. Chlorophyta and Charophyta (2 hours) 11. Phaeophyta (2 hours) 12. Macroalgae and fouling (2 hours) 								

	13. Algae as ecological indicators of polluted water (2 hours)14. Ecology, phylogeny and taxonomy of fungi (4 hours)								
Format of instruction	 ☑ lectures □ seminars an ☑ exercises □ on line in en ☑ partial e-leat □ field work 	tirety	ops	 independent assignments multimedia laboratory work with mentor (other) 					
Student responsibilities									
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	Class attendance Experimental	0.5	Research	0.5	Practical traini	ng			
	work	1.0	Report Seminar		(Other)				
	Essay		essay		(Other)				
	Tests	Tests 2.0 Oral ex			(Other)				
value of the course)	Written exam	1.0	Project		(Other)	Para la sta sa s			
Grading and evaluating student work in class and at the final exam	The final grade students will be based on the results achieved, including lectures, seminars and laboratory exercises. Evaluating student work will be based on a percentage of the resulting total number of points according to this scale : < 60 % insufficient ; 60-69 % sufficient (2), 70-79% solid (3), 80-89% very good (4), 90-100 % excellent (5).								
		-	Number of copies in	Availability via					
					the library	other media			
Required literature (available in the library and via other	Graham L.E. ar Upper Saddle F		-	Prentice Hall.	-	other media https://link.sprin ger .com/chapter/1 0.10 07/978-1-4020- 8480-5_1			
(available in the	Upper Saddle F Hoek C., Van E Introduction to press, U.K., 19 University Pres	River, N.J Den D.G. (Phycolog) 94. Lee, F s, 1999	., 2000. and Johns H.M y, Cambridge R.E., Phycolog	И., University gy. Cambridge	the library 2 1	https://link.sprin ger .com/chapter/1 0.10 07/978-1-4020-			
(available in the library and via other media)	Upper Saddle F Hoek C., Van E Introduction to press, U.K., 19	River, N.J Den D.G. a Phycology 94. Lee, F s, 1999 orliss J.O dbook of	., 2000. and Johns H.N y, Cambridge R.E., Phycolog ., Melkonian M Protoctista, Jo	M., University gy. Cambridge M., D.V.	the library 2 1	https://link.sprin ger .com/chapter/1 0.10 07/978-1-4020-			
(available in the library and via other	Upper Saddle F Hoek C., Van D Introduction to press, U.K., 19 University Pres Margulius L., C Chapman: Han	River, N.J Den D.G. a Phycology 94. Lee, F s, 1999 orliss J.O dbook of	., 2000. and Johns H.N y, Cambridge R.E., Phycolog ., Melkonian M Protoctista, Jo	M., University gy. Cambridge M., D.V.	the library 2 1	https://link.sprin ger .com/chapter/1 0.10 07/978-1-4020-			
(available in the library and via other media) Optional literature (at the time of submission of study programme	Upper Saddle F Hoek C., Van D Introduction to press, U.K., 19 University Pres Margulius L., C Chapman: Han Bartlett, Bostor Taking attenda examination; S	Pen D.G. a Phycology 94. Lee, F s, 1999 orliss J.O dbook of h, U.S.A., nce in cla tudent su	., 2000. and Johns H.M y, Cambridge R.E., Phycolog ., Melkonian M Protoctista, Jo 1989. ss; The annua rvey in order t	M., University gy. Cambridge M., D.V. ones and al analysis of th o evaluate tea	the library 2 1 1 ne performance chers ; Self-eva	https://link.sprin ger .com/chapter/1 0.10 07/978-1-4020- 8480-5_1			