

Study Programme :BSc in Biology				
Degree level: Bachelor degree,				
Course Title: BIOLOGY OF ALGAE AND FUNGI				
Professor: Dragan Radnovic, Jelica Simeunovic				
Required/Elective Course: Required Course				
Number of ECTS: 7				
Prerequisites: none				
Course Objective: Understanding biology, ecology and taxonomy of prokaryotic and eukaryotic algae, fungi and lichens, in order to understand their distribution and importance in natural ecosystems.				
Course Outcome: The outcome of this course is to understand diversity of algae, fungi and lichens, the essence of phylogenetic relatedness, their role in different ecosystems as well as their indicator characteristics.				
Course Content:				
<i>Theoretical part</i>				
Basic characteristics of algae including structure of the algal cells, their mode of nutrition, and review their methods of reproduction, types of the life cycle of the representative genera and their basic role in the nature and different environments. Understanding general principles of classification of algae and biology of divisions: Cyanophyta, Rhodophyta, Euglenophyta, Pyrrophyta, Xanthophyta, Chrysophyta, Bacillariophyta, Phaeophyta Chlorophyta and Charophyta.				
General characteristics of fungi and funguslike organisms. Physiology of growing hypha. Hyphal aggregates (mycelial cords, mycelial cords, sclerotia, haustorium etc.). Spores of fungi. Taxonomy of fungi. Biology of divisions Myxocota and Eumycota including subdivisions Mastigomycotina, Zygomycotina, Ascomycotina, Basidiomycotina, Deuteromycotina, as well as the characteristics and biology Lichenes.				
<i>Practical part</i>				
Practical classes follow lectures by learning about morphology and life cycles of the individual genera of algae, fungi and lichens - members of the taxa treated in the theoretical teaching.				
Reading List:				
Blaženčić J. (1988): Systematics of algae. Scientific Book, Belgrade. (in Serbian)				
Rankovic B. (2007): Systematics of fungi. Faculty of Science, Kragujevac. (in Serbian)				
Gajin, S., Matavulj, M., Gantar, M. (1987): Fundamentals of Microbiology, Lower plants and Fungi. Practicum. Faculty of Science, Novi Sad. (in Serbian)				
Additional reading (in English):				
Lee, E. (2007): Phycology. 4rd Edition. Cambridge University Press. ISBN-10: 0521864089.				
Webster, J., Weber, R. (2007) Introduction to Fungi. 3rd Edition. Cambridge University Press. ISBN:9780521014830				
Total hours:				
Lectures: 3	Practicals: 3	Other: -	Student research work:	-
Methods of instruction:				
Assessment (maximum number of points 100)				
Requirements	points	Final exam		points
Active participation in lectures	2	Practical exam		22
Active participation in practicals	-	Oral exam		40
Test(s) or	36			
Pre-exam testing	-			
Remark:				