

Faculty of Science and Mathematics / BIOLOGY / PLANTS ECOLOGY II

Course:	PLANTS ECOLOGY II			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
4299				
Programs	BIOLOGY			
Prerequisites	The Ecology of Plants I			
Aims	Understanding of basic principles of constructions and dynamics of plant communities; learning about positioning of vegetational zones on the Earth.			
Learning outcomes	After the student passes this exam, he/she will be able to: 1. Understand basic concepts of phytocoenology. 2. Analyze structures of plant communities, dynamics of plant communities and vegetation. 3. Distinguish plant communities in the field/nature and describe their characteristics. 4. Understand horizontal and vertical vegetational zoning on the Earth. 5. Describe types of vegetations on the Earth and find a connection between ecological parameters within they develop and structure/dynamics they possess. 6. Organize and realize fieldwork investigations in phytocoenology.			
Lecturer / Teaching assistant	doc. dr Danka Cakovic doc. dr Danka Cakovic			
Methodology	Lectures, exercises, seminars, consultations, fieldwork.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Basic concepts of biocoenology, succession and populations. Phytocoenology and notion of phytocoenosis.			
I week exercises	Phytocoenological research methodology			
II week lectures	Structure and physiognomy of phytocoenoses.			
II week exercises	Phytocoenological relevés			
III week lectures	Dynamic of plant communities and vegetation.			
III week exercises	Phytocoenological table			
IV week lectures	Basic rightness of vegetation distribution on the Earth.			
IV week exercises	Fieldwork - horizontal and vertical zonation of vegetation in Montenegro			
V week lectures	Phytocoenological schools. Classification of phytocoenology.			
V week exercises	Classification of phytocoenoses			
VI week lectures	Colloquia I			
VI week exercises	Syntaxonomical Categories - Examples from Montenegro			
VII week lectures	Overview of vegetation on the Earth. Tropical rainforests. Mangrove vegetation.			
VII week exercises	Analysis the structure of vegetation - tropical rainforests and mangroves.			
VIII week lectures	Tropical deciduous forest. Savannas. Laurel forests vegetation.			
VIII week exercises	Analysis the structure of vegetation - tropical deciduous forests and laurel forests			
IX week lectures	Evergreen vegetation of trees and shrubs.			
IX week exercises	Fieldwork - Mediterranean vegetation in Montenegro			
X week lectures	Deserts. Steps.			
X week exercises	Mapping of deserts and steppes			
XI week lectures	Vegetation of leaf deciduous forests of temperate zone. Conifer forests of northern hemisphere.			
XI week exercises	Field work (2) - deciduous and coniferous forests in Montenegro.			
XII week lectures	Colloquia II			
XII week exercises	Field work (2) - deciduous and coniferous forests in Montenegro.			
XIII week lectures	Vegetation of cold zone. Tundra and cold (ice) deserts. High mountains and meadow vegetation			
XIII week exercises	Analysis of life forms in the vegetation of the cold zone			

XIV week lectures	Correctional colloquia					
XIV week exercises	Fieldwork - high mountain and meadow vegetation in Montenegro					
XV week lectures	Marshes vegetation and vegetation of water basins.					
XV week exercises	Analysis the structure of vegetation - Skadar lake					
Student workload	A week: 4 x 40/30= 5 hours and 20 minutes Structure: 2 hours of lectures, 2 hours exercise 1 hours and 20 minutes of student work, including consultations. During the semester: Teaching and the final exam: 5 hours and 20 minutes x 16 = 85 hours and 20 minutes Necessary preparation (before semester administration, enrollment and verification): 2 x 5 hours and 20 minutes = 10 hours and 40 minutes Total hours for the course: 4 x 30 = 120 hours. Additional work to prepare the corrective final exam, including the exam taking 0 to 24 hours (the remaining time of the first two items to the total work hours for the subject of 120 hours). Structure: 85 hours and 20 minutes (lectures) + 10 hours and 40 minutes (preparation) + 24 hours (additional work)					
Per week			Per semester			
credits x 40/30=0 hours and 0 minuts 0 sat(a) theoretical classes 0 sat(a) practical classes 0 excercises 0 hour(s) i 0 minuts of independent work, including consultations			Classes and final exam: 0 hour(s) i 0 minuts x 16 =0 hour(s) i 0 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 0 hour(s) i 0 minuts x 2 =0 hour(s) i 0 minuts Total workload for the subject: x 30=0 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 0 hour(s) i 0 minuts Workload structure: 0 hour(s) i 0 minuts (cources), 0 hour(s) i 0 minuts (preparation), 0 hour(s) i 0 minuts (additional work)			
Student obligations			Attending lectures, exercises, colloquiums and tests			
Consultations			2 hours per week			
Literature			Basic literature: Janković M., Fitoekologija sa elementima fitocenologije i pregled vegetacije na zemlji. Naučna knjiga, Beograd, 1971. Additional : Fitogeografija, Naučna knjiga, Beograd, 1990.			
Examination methods			2 written exams (colloquiums): 16 + 14 points - total 30 points. Practical exams (test): 14 points Seminar: 6 points. Final exam: 50 points			
Special remarks			Students cover the expenses of fieldworks.			
Comment						
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points