NAME OF THE COU	HE COURSE Plant Ecology and Geobotany							
Code	PMB245		Year of study	1				
Course teacher	Higher Juraj K	lecturer amenjarin, PhD	Credits (ECTS)	6				
Associate teachers			Type of instruction (number of hours)	L	S	E	F	
Status of the course	Mandatory		Percentage of	45 10%		30		
		COURSE	application of e-learning					
To gain knowledge of the interrelationship between plants and the onvironment, and								
Course objectives	how plants adopted influence of abiotic and biotic environmental factors. The aim of the course is to link environmental factors with the distribution of plants and plant communities. Understand how the emergence of endemic species, relict and biodiversity as well as the impact of human activities on them.							
Course enrolment requirements and entry competences required for the course	No conditions							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Studen 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	 udent will be able to: Define the influence of abiotic and biotic environmental factors on life and the distribution of plants and plant communities. Determine and compare the different physical and chemical properties of different types of soil. Detect life forms and methods of propagation of plants. Explanation of the circumstances in which plant species are endemic. Define life forms of plants and their representation in the various habitats List floral kingdoms on Earth and put them in an evolutionary and ecological context. List the floral elements in Croatia and give examples. Analyze vegetation of Croatia in different types and understand the reasons for distribution. Recognize the human influence on the spatial distribution of plant species. Specify the basic settings in the planning of protection of plant species and habitats. 						
Course content broken down in detail by weekly class schedule (syllabus)	 Lectures: / Exercises: Introductory lecture. Plant Ecology, definitions and basic concepts. Environmental factors and their impact on life and the distribution of plants and plant communities. Abiotic: air, light, water and humidity, precipitation, wind, soil physical and chemical properties of the soil, bedrock. Biotic factors: symbiosis, parasitism, competition, association of plants and animals. Anthropogenic influence. Phytocenoses as a component of the ecosystem. Vegetation. Primary and secondary biocenosis. Succession. Spreading plants: autochory, allochory, cosmopolitans, neophytes. 				nts nd and			

	 9. Endemic species: the genesis of endemic species, paleoendemi, relics, neoendemi, endemism of flora. 10. Area, disjunction. Life forms of plants. 11. Floral elements. Floral kingdoms. 12. The main stages of development of plant life under the influence of changes in the geological past of the Earth. 13. Ecological gradients in the spatial distributions of plant species. Display vegetation of the Earth and Europe. 14. Geographic plant location and articulation of vegetation of Croatia. 15. Human impact on the areal of plant species. Protecting plants in the world, Europe and Croatia: red lists, plans to protect species and habitats. 						
Format of instruction	 ☑ lectures □ seminars and workshops □ independen □ multimedia □ laboratory □ on line in entirety □ partial e-learning □ field work 			t assignments entor			
Student responsibilities							
Screening student	Class attendance	5	Research		Practical training		
proportion of ECTS	Experimental work	kperimental 1 Report			(Other)		
activity so that the	Essay		Seminar essay		(Other)		
ECTS credits is	Tests		Oral exam		(Other)		
value of the course)	ourse) Written exam Project			(Other)			
Grading and evaluating student work in class and at the final exam	Oral final exam				_		
		٦	Fitle		Number of copies in the library	Av: of	ailability via ther media
Required literature (available in the library and via other media)	Kamenjarin J., geobotanika – i	Trinajstić interna ski	5 I. (2017): I ripta. PMF S	Ekologija bilja i olit.	i	A tea ele	vailable at cher in print and in ectronic form
	Kamenjarin J. (power point pre	- -	A	vailable at teacher in ectronic form			
Optional literature (at the time of submission of study programme proposal)	Gračanin M., Ili Šegulja N., Hrš vegetacije. Mal Šegulja, N., To bilja. PMF, Zag	Gračanin M., Ilijanić LJ., 1977: Uvod u ekologiju bilja, Školska knjiga, Zagreb. Gegulja N., Hršak V., 1988: Priručnik za fitocenološka i ekološka istraživanja Gegetacije. Mala ekološka biblioteka Hrvatskog ekološkog društva, Zagreb. Gegulja, N., Topić, J., 1994: Vodič za terensku nastavu iz geobotanike i ekologije Gilia. PMF. Zagreb., Zagreb.					

Quality assurance methods that ensure the acquisition of exit competences	Active participation in class, evaluation of courses and teachers, consultation.
Other (as the proposer wishes to add)	