

Title	PLANT ECOPHYSIOLOGY						
Code	ZDIA45						
Study Program	Postgraduate Interdisciplinary University Programme Environment protection and Nature Conservation						
Semester	III						
ECTS	5						
Status	elective						
Lecturer	PhD Tihana Teklić, full professor						
Co-Lecturers	None						
Requirements for Enrolment	None						
Objectives	The objective of this course to introduce students with physiological and ecological processes which define plant-environment interaction, with the reactions in plant metabolism to the changes in the ecosystem, and with the significance of abiotic factors impact on plant growth and developmen, from cellular up to the ecosystem level						
Learning Outcomes	After successful completing this course, student shall be able: 1. to comprehend plant functions in life maintenance on Earth 2. to understand plant reactions to ecosystem changes 3. to anticipate the consequences of abiotic and anthropogenic factors on plants and the entire ecosystem 4. to use literature sources tfrom the field of plant ecophysiology 5. to give critical comments and presentations of the research in plant ecophysiology						
Connection between Learning Outcomes, Curricular and Student Activities	Student Activities	ECTS	Learning Outcomes	Curricular Activities	Methods of Assessment	Credits*	
						min	max
	Lecture attendance and active participation	0.5	1-3	Lectures	Recording, evaluation	5	10
	Seminar preparation	2	4	Independent work with consultations	Recording, evaluation	20	40
	Seminar presentation	1	5	Seminar	Oral part of the exam	10	30
	Preparation for the written exam	1.5	1-3	Final exam	Written exam	15	30
	Total	5				50	100
50.1-62.5 points: grade 2 62.6-75 points: grade 3 75.1-87.5 points: grade 4 87.6-100 points: grade 5							
Consultations	once per week 2 hours, and additionally based on the agreements with students						
Learning Activities	Lectures		Seminars		Practice		
Hours	10		5		0		
Contents / Teaching Units	Plant and the environment tre role of plants in energy and organic matter cycling in nature. Climate, soil and biological factors in the environment. The influence of abiotic factors (light, water, temperature, soil as a substrate for plant nutrition) on plant physiological processes. Plant reactions to stress conditions in the environment (lack and surplus of watre,						

	extreme temperatures, nutrients deficiency and toxicity, global climate changes). Interactions among plants and other organisms.
Obligatory Literature	Taiz, L. and Zeiger, E. (2006): Plant Physiology. 4th Edition. Sinauer Associates, Inc. Pevalek-Kozlina, B. (2003): Fiziologija bilja. Profil International. Zagreb. Ridge, I. (2002): Plants. Oxford University Press. Lambers, H., Chapin, F.S., Pons, T.L. (1998): Plant physiological ecology. Springer – Verlag.
Recommended literature	Scientific journals and web sites related to plant ecophysiology.
Requirements for Aquiring Signature	Active participation in the lectures, seminar work compiling and oral presentation are required.
Type of Exam	Students are obliged to participate actively in lectures and to compile and present seminar work.
Lectures Language	Throughout the course, lecturer tracks and evaluates the activities of each particular student, seminar oral presentation is simultaneously the oral part of an exam, followed by written part of an exam.
Quality Monitoring	A survey after the accomplished course, auditing throughout the lectures, possibility of giving remarks in speech or writing.