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Table S2.6.4. Form for the preparation of the course information sheets						
Name of the subje	ect					
Biological proce	sses in the enviror	nment -	selected	d chapters		
Code of the Status of the Number of ECTS						
subject	subject	Semes	ter	credits	Class load	
	Optional	Autumn	, Winter	10	5	
Study programme for which it is organized PhD Program "Natural sciences and Technology for						
Sustainable Develo	opment", Module Envir	onment p	protection	3 rd degree		
Dependency by other subjects No prerequisites						
Objectives of studying this subject						
Detailed introductio and ecosystems.	on to biological and eco	ological p	processes	in organisms, populat	ions, communities	
Contents of the su presented per wor	ubject (teaching units rking weeks in the ac	s, forms ademic	of stude calendar:	nts' individual work,	forms of testing)	
Preparatory week						
I week	Characteristics of	f living thing	gs. Prokaryot	ic cell - structure and biologi	cal processes, bacteria	
	and cyanobacter	ia.		logical process differences	a batulaan cultamista	
II week	Eukaryotic cell - o	and prokaryotes.				
III week	Neek Plant cell, plant tissues and organs - biological processes.					
IV week	Animal cells, tissues and organs - biological processes.					
V week	Invertebrates - groups and biological processes.					
VI week Vertebrates - groups and biological processes.						
VII week Plants and algae - groups and biological processes.						
VIII week Test 1						
IX week	Biological proces	Biological processes at the population level				
X week	Biological proces	Biological processes at the level of biocenosis				
XI week	Biological proces	Biological processes in natural ecosystems				
XII week	Biological proces	Biological processes in anthropogenic and polluted ecosystems (local and global				
XIII week	Biological proces	Biological processes in water and soil				
XIV week	Test 2	Test 2				
XV week	Test 3	Test 3				
Methods of education						
lectures						
 consultation 	ns					
Students' load						
				<u>in Semester</u>		
2 hours lectures				300 hours		
8 hours and 20min individual work including		Idina	Inclu	ding preparatory and a	additional work	
consultations			moru	ang proparatory and a		
Total: 13 hours and 20 minutes						
Students' obligations during the teaching:						
Students are required to attend lectures regularly						
Literature:						
1. Brock TD, Biology of microrganisms, 12 th edititon, New Hersey: Prentice-Hall Inc. (2008)						
2. Walker C, Hopkins S. P., Principles of Ecotoxicology, Taylor & Francis (2006)						
3. Brien Moss, Ecology of Fresh Waters: A View for the Twenty-First Century, Wiley-Blackwell						
(2011)						
4. George Karleskint, Richard Turner and James Small, Introduction to Marine Biology,						
Cengage L	Gengage Learning; 3 edition (2009)					

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Learning outcomes (complied with the outcomes for the study programme):

After the student passes this exam he will be able to find and explain the connection between structure, function and processes at different levels of living world organization (at the level of molecules, cells, organisms, populations, communities, ecosystems), understand the main cellular processes and recognize differences between eukaryotic and prokaryotic organisms, explain the concepts related to morphology, anatomy and physiology of living beings (from the simplest unicellular to complex multicellular organisms), apply the acquired knowledge about the structure and function of organisms in everyday life and predict how changes in the environment and various abiotic factors can affect them.

Forms of tests and evaluation:

• Oral examination, 40%

• Written examination 60%

Name and surname of teacher and associate: To be decided

Particularities needed to be emphasized for the subject:

Note (if needed):