

Course ID:	Cour	Course name: BASICS OF ECOLOGY				
Cycle: FIRST	Year: FIRST		Semester: I	ECTS credits: 4		
Course status: MANDAT		ORY	Total course hours:	100		
Teaching participants:		<b>Teachers and associates with expertise in the field to</b> <b>which the subject belongs</b> [do not enter names in this section. Leave the wording as indicated in this section]				
Prerequisite for enrollment:		-				
Course aims:		The main objectives of the course are to acquire knowledge about environmental factors and their complex action, basic environmental laws in all spheres of life and basic postulates of Ecology.				
Thematic course u	nits:	<ol> <li>about environmental factors and their complex action, basic environmental laws in all spheres of life and basic postulates of Ecology.</li> <li>Definition of ecology; ecological fatori and ecological valence.</li> <li>Ecological hierarchy and degrees of ecological integration.</li> <li>Population - concept and attributes; Biocenosis - concept and attributes.</li> <li>Ecosystem - circulation of organic matter and energy flow.</li> <li>Biogeochemical cycles.</li> <li>Basics of production and decomposition of organic matter.</li> <li>Laws of biomass production. Primary and secondary production.</li> <li>Distribution of life on Earth.</li> <li>Resources: Energy resources. Renewable and non- renewable resources. Use and utilization of resources. Resource management. Sustainable development.</li> <li>Lithosphere-rock definition and division.</li> <li>Pedosphere.</li> <li>Hydrosphere.</li> <li>Hydrosphere.</li> <li>Biodiversity: a concept. Biodiversity levels.</li> </ol>				
Learning outcomes	:	Knowledge: S ecological co	versity strategies. Goal Students will be able to oncepts, explain the c	s and measures. o define and describe basic connection between living		

	Form SP2
UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE	
Department of Chemistry	Page 2 of 3

	beings and their environ	ment, connect	the causes of			
	environmental pollution with consequences, analyze the basics of sustainable development, distinguish types of pollution, and analyze environmental data.					
	Skills: This course will enal	ole students to a	cquire skills of			
	observation, analysis and ir	nterpretation of t	facts related to			
	ecology and the use of thi	s information in	achieving the			
	protection of individual organisms and their habitats					
	Competences: Basic knowledge of trends in ecology types of					
	nollution the impact of industry and man on the climate and					
	the environment. Knowledge of the possibilities of					
	Preventing environmental pollution and treffetter macaures					
	Kilowieuge of biourversity all	iu protection mea	Sules.			
Teaching methodology:	Lectures (oral presentation of teachers - presentations) and					
	laboratory exercises (practical work)					
	Grading criteria					
	1. Class attendance	5	3			
	2. Class activities *	15	8			
	3. Midterms	40	22			
	4. Final exam	40	22			
	Total	100	55			
Assassment methods	* Class activity is sccored through the					
and grading system1.	engagement of students in exercises.					
and grading system.	Scores and grading					
	Score	(B&H)	(ECTS)			
	< 55	5	F, FX			
	55-64	6	Е			
	65-74	7	D			
	75-84	8	<u> </u>			
	95-100	<u> </u>	A			
	Mandatory literature:					
Litoraturo2.	1 Škrijeli P. Đực S. (2000). Hược ở chologin živetinia					
	Drirodno-matomatički fakultot Sarajovo					
		2 Dug S Škrijeli D (2000) Diegoografia Drizedne				
	r = 1100110-111atematick	(0) Diagoografiia	Drinodno			

 $<sup>^{1}</sup>$  The grading structure for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught as per Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton

 $<sup>^2</sup>$  The Senate of the higher education institution, as an institution, or the Council of the organizational unit of the higher education institution, as a public institution, determines by a special decision, which is published on its website before the beginning of the academic year obligatory, mandatory and recommended textbooks and manuals, as well as other recommended literature based on which exams are prepared and taken as per Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton

## UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

matematički fakultet, Sarajevo. 3. Stanković, S. (1969). Ekologija životinja. Zavod za izdavanje udžbenika. Beograd.
Supplementary literature:
1. Gračanin, M. (1977). Uvod u ekologiju bilja. Školska knjiga Zagreb.
<ol> <li>Dizdarević, M. (1974). Rječnik ekologije. Zavod za izdavanje udžbenika, Sarajevo.</li> </ol>
3. Odum, E. (1971). Fundamentals Ecology. 3. edition. Philadelphia: Saunders.