Course ID: HKO201	**Course name: ENVIRONMENTAL BIOMONITORING**		
Cycle: FIRST	**Year: second**	**Semester:** III	**ECTS credits:2**
Course status: ELECTIVE		**Total course hours: 30** Lectures: 15 Laboratory: 15	
Teaching participants:	**Teachers and associates with expertise in the field to which the subject belongs** [do not enter names in this section. Leave the wording as indicated in this section]		
Prerequisite for enrollment:	- Basics of ecology		
Course aims:	Acquiring knowledge about the biotic component of the environment, bioindication and ecological applications in the assessment of the state of aquatic and terrestrial ecosystems.		
Thematic course units:	1.Biomonitoring: Definition of terms. Bioindication - indicator development. 2. Living communities of aquatic and terrestrial ecosystems. 3. Representation of bioindicators as a result of the influence of physical/chemical parameters of the environment 4. Research methods and analysis of the composition of living communities 5. Biomonitoring of terrestrial ecosystems 6. Biomonitoring of air 7. Passive bioindicators of the terrestrial environment: trees, lichens and mosses 8. Active bioindicators: tobacco and mosses 9. Biomonitoring - overview of techniques and methods 10. Evaluation of the analysis of the community of organisms in environmental biomonitoring (microorganisms, algae, higher plants and animals) 11. Evaluation: Indices in environmental biomonitoring 12. Conservation and protected areas (biomonitoring)		
Learning outcomes:	Knowledge: The importance of bioindication and bioindicators in air and water environment quality control Skills: Training for adequate interpretation of data and analysis results in environmental biomonitoring Competences: for work in expert studies of the state of the environment and environmental impact		
Teaching methodology:	Lectures and practical classes		

Assessment methods and grading system[1]:

Grading criteria			
	Criteria	Maximal score	Required score
1.	Class attendance	5	3
2.	Class activities	5	2
3.	Midterms	2 × 25	2 × 14
4.	Final exam	40	22
	Total	100	55

Scores and grading		
Score	Grade (B&H)	Grade (ECTS)
< 55	5	F, FX
55–64	6	E
65–74	7	D
75–84	8	C
85–94	9	B
95–100	10	A

Literature[2]:

Mandatory literature:

1. Trožić-Borovac, S. 2011. Priručnik iz hidrobiologije – za student biotehničkih nauka. PMF Sarajevo
2. Đug,S., Dreško vić, N, Trožić-Borovac, S., Mušović, A., Trakić, S., Gajević-Bešta, R., Gajević, M., Vesnić, A.,Korijenić, E., Mirić,R., Škrijelj, R. 2020. Biomonitoring akvatičnih ekositema. PMF Sarajevo

Supplementary literature:

1. Scientific papers in the field of environmental biomonitoring

[1] 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

[2] 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