States States		UNIV	UNIVERSITY OF EAST SARAJEVO			ALC: VICTORIA					
		Etudu pro errore									
		Study program	tudy programme: Chemical Engineering and Technolog								
		Cycle I	duata Analysia	Year III		10 15e3 10 111					
Department Depart			ods of Food Pro	JS OT FOOD Froducts Analysis							
Department		Бора									
Course code		Co	Course status		ter	ECTS					
04	-1-103-6	6	(	Compulsory			7				
Teacher Milenko Sm		miljanić, PhD, as	nić, PhD, associate professor								
assistant	١	Vesna Goj	ković Cvjetković	vić Cvjetković, PhD, assistant professor							
Number of h	ours/ t	eaching	workload (per	orkload (per Individual student workload (in		n hours per	r Student workload				
week)	Αυσ	litory	Laboratory		Semester)	Laboratory					
Lectures	exer	rcises	exercises	Lectures	exercises	exercises	So				
3		0	3	45	0	45	1.33				
	3*15+0	)*15+3*15	=90 hours		(3*15*1.33+0	<u>*15*1.33+3*15</u>	5*1.33)=120 hours				
Total course workload 90 + 120 =210 hours per semester											
		After finishing the course, students will be able to:									
Learning		2. correctly choose the appropriate methods of analysis									
outcomes	3	3. plan and perform various experiments related to the composition and properties of food									
		4. process and interpret the obtained results									
<b>D</b>	5	5. indepen	independently solve problems in the food analysis laboratory.								
Prerequisites Analytical ch			10mistry.								
reaching meth		Lectures, a		fatory exercises, in		oquia).					
Syllabus ou per week	tline	<ol> <li>Importance and analysis of food. Division of methods for food analysis. Chemical, biochemical, physical-chemical and sensory methods in food analysis.</li> <li>Principle of selection of methods for food analysis. Elements for verification, validation and comparison of food analysis methods.</li> <li>Food sampling for analysis. Sampling during official food control.</li> <li>Methods of determining dry matter content in food.</li> <li>Methods of determining the content of mineral substances in food.</li> <li>Methods of determining the content of nitrogen substances. Determination of protein content.</li> <li>Methods of determining the content of carbohydrates in food.</li> <li>Methods of determining the content in food.</li> <li>Methods of determining the content in food.</li> <li>Methods of determining the content of food additives and toxic substances. Determination of mycotoxin residue content in food.</li> <li>Methods for testing the quality and safety of meat and meat products.</li> <li>Methods for testing the quality and safety of fruits, vegetables and products.</li> <li>Methods for testing the quality and safety of grain, flour and products.</li> <li>Methods for testing the quality and safety of vegetable oils, fats of animal origin and products.</li> <li>Methods for testing the quality and safety of vegetable oils, fats of animal origin and products.</li> </ol>									
Obligatory reading											
Author			Title, publis	her	Year	Pages					
Marjanović, N.J.		Instrument	Instrumentalne metode analize I/1 Metode								
		razdvajanja	anja Tehnološki fakultet, Banja Luka <sup>2001</sup> <sup>1</sup>		1-500						
Vahčić, N., Hruškar, M.,			Analitičke metode za određivanje osnovnih								
Marković, K.			sastojaka	sastojaka u hrani, Praktikum, Prehrambeno		1-74					
			tehnološki	fakultet Osijek							

Additional reading											
Author		Title, publisher	Year		Pages						
AOAC		Official Methods of Analysis , 15th Edition, AOAC		69-88,	312-334, 1045- 1106						
James, C.S.		Analytical Chemistry of Foods, Chapman&Hall, London		1-176							
Nielsen, S.S.		Handbook of food analysis, physical characterization and nutrient analysis	2005		505-508						
		Type of student evaluation		Grade points	Percentage						
	Pre-exam obligations										
Obligations,		Atter	dance	6	6 %						
assessment		Mid-terr	n test I	25	25 %						
methods and		Mid-term	n test II	25	25 %						
grading system		Seminar	paper	14	14 %						
	Final examination										
		Final examination	n (oral)	30	30 %						
	Total			100	100 %						
Web page	www.tfzv.ues.rs.ba										
Date	2023										