								ALC Y NETONION	
		Study programme: Chemical Engineering and Technology							
							OF STATES		
Course title An		laaA	plication of Food Additives in Food Production					259 10 C	
Department		Depa	artment for Food T	ent for Food Technology – Faculty of Technology Zvornik					
Course code		ode	Course status		Semester		ECTS		
04	-2-113	8-7		Elective VII				4	
Teacher		Dragan V	ujadinović, PhD, a	vić, PhD, associate professor					
assistant		Milan Vuk	ić, PhD, assistant	PhD, assistant professor					
Number of he week)	Number of hours/ teach week)		workload (per	Individual student workload (in ho semester)		in hours per	per Student workload coefficient S₀		
Lectures	Au	uditory ercises	Laboratory exercises	Lectures	Auditory exercises	Laborator exercises	∕ S₀		
2	0.1.1.5	0	2	30	0	30	1.00		
	2*15-	+0*15+2*15	5=60 hours	vorkland 60 + 60-	(2*15*1.00+	0*15*1.00+2*	'15*1.00)=60	hours	
		After finist	ing the course st	vorkioad 60 + 60=	to:	nester			
		1. safely apply food additives, colors and flavors in food production							
Learning		 implement legal regulations for the use of color and flavor additives in food products 							
outcomes		3. monitor the influence and technology of application of additives, colors and aromas on the							
Due no avvia ita		properties of food products.							
Teaching methods		Lectures laboratory exercises seminar paper, case studies, practical exercises							
Syllabus our per week	Syllabus per week 1. Introduction. Food and the importance of the use of food additives. 2. Classification, physical and chemical properties and technological role of food additives. 3. Criteria for the safe use of food additives. 4. Antioxidants and their influence on product quality. Selection of antioxidants. 5. Sweeteners, Polyhydroxy alcohols, Saccharin, Cyclamates, Aspartame, Acesulfame-K. 6. Stevioside, Thaumatin, Neohesperidin dihydrochalcone, Sucrose, RTI-001. 7. Flavors, Natural flavors, Synthetic flavors. 8. Colors, Natural colors, Synthetic colors. 9. Preservatives. The most important preservatives, their influence on product sustainability toxicological aspects. 10. Enzymes. Selection of enzymes for food application. 11. Vitamins as food additives. 12. Emulsifiers, emulsifiers of natural origin, micellar colloids. 13. Requirements regarding purity and safety of pure additives. 14. The influence of food additives on human health. 15. Legal regulations related to the use of color and flavor additives in food products. Obligatory reading Vite, publisher							dditives. āme-K. act sustainability, s. Pages	
Grujić, S.			Prehrambeni	aditivi-Funkcionaln	ia svojstva i primje	ena,			
			Tehnološki fal	kultet, Banja Luka		2005	5 9-213	9-213	
Additional reading									
Author				Title, publisher		Yea	r	Pages	
Baines,D., and Seal,R.		Natural food Woodhead Pu	atural food additives, ingredients and flavourings, /oodhead Publishing Limited, Philadelphia, USA		^{ngs,} 2012	2	(488)		
Watson, D.H.		Food chemica New York, US	ood chemical safety, Vol. 2 Additives, CRC Press, lew York, USA		ess, 2000		(1-308)		
Obligations, assessment		Type of student evaluation				Grade points	Percentage		

methods and	Pre-exam obligations		
grading system	Attendance	6	6 %
	Mid-term test I	20	25 %
	Mid-term test II	20	25 %
	Laboratory exercise	24	24 %
	Final examination		
	Final examination (oral)	30	30 %
	Total	100	100 %
Web page	www.tfzv.ues.rs.ba		
Date	2023		