				ERSITY OF EAST							
		Study programm	ne: Chemical Eng	nology							
		Cycle I									
Course title FUNCTIONAL FOOD AND NUTRICEUTICALS											
Department Department for Food Technology – Faculty of Technology Zvornik											
Course code			Со	Course status		ster	ECTS				
04-2-114-7				Elective			4				
Teacher				ić Cvjetković, PhD, assistant professor							
Teaching assistant Vesna Gojković Cvjetković, PhD, assistant professor											
Number of hours/ teach week)		teaching	workload (per Individual stu		udent workload (semester)	in hours per	Student workload coefficient S _o				
Lectures	Auditory		Laboratory exercises	Lectures	Auditory exercises	Laboratory exercises	So				
2		0	2	30	0	30	1.00				
	2*15+	-0*15+2*15			+2*15*1.00) 120 hours per se		5*1.00)=60 hours				
Learning present in fr outcomes 3. define the 4. demonstr 5. demonstr 6. use profe			vidual groups of nutraceuticals (essential nutrients, natural metabolites of substances naturally food and substances of animal and plant origin) and the reasons for taking them, he principles of development and marketing of functional food, strate and utilize the knowledge of the importance of functional food in improving health, strate and utilize the knowledge of the legal provisions on nutraceuticals and functional food, fessional and scientific literature.								
Teaching meth	ods	Lectures,	auditory and labor	litory and laboratory exercises, mid-term tests (colloquia).							
 Syllabus outline per week Introduction. Definition of functional food. Legal regulations on functional food (EU, Bosnia and Herzegovina). Functional ingredients (antioxidants, vitamins, minerals, dietary fibers). Functional ingredients (fatty acids, phytosterols, inulin and others). Dietary fibers as functional ingredients of food. Functional fats. Functional dairy products. Functional products with dietary fiber. Probiotic and prebiotic functional food. The role of functional food in the human body. Development of functional food (increase of macronutrients and micronutrients). Methods of analysis of functional food and nutraceuticals. 											
Mid-term tests are taken after the 8th week and the 15th week. Semester verification is required aft the 15th week. Obligatory reading											
Author				Title, publisher		Year	Pages				
Gibson, G.R., Williams, M.W				unctional foods. CRC Press, Woodhead Publishing imited, Boca Raton, Boston, New York, Washington			1-200				
Roberfroid, M.				unctional foods, Defining functional foods and ssociated claims, Woodhead Publishing			3-22				
						1					

Additional reading									
Author		Title, publisher			Pages				
Mandić, M.L.		Funkcionalna hrana, Interna skripta, Prehrambeno - Tehnološki fakultet, Osijek			1-50				
Chadwick, R. i sar.		Functional Foods, Springer, Berlin			1-216				
Mazza, G.		Functional Foods, CRC / Taylor and Francis, Boca Raton			1-215				
Shi, J.		Functional Food Ingredients and Nutraceutics – Processing Technologies, CRC / Taylor and Francis, 2007 Boca Raton			269-340				
	Type of student evaluation			Grade points	Percentage				
	Pre-exam obligations								
Obligations		Atten	dance	6 25	6 %				
Obligations, assessment	Mid-term test I				25 %				
methods and		Mid-term	25	25 %					
grading system		Seminar	14	14 %					
g	<u> </u>								
	Final examin			00 0/					
	-	Final examination	30	30 %					
	Total		100	100 %					
Web page	www.tfzv.ues.rs.ba								
Date	2023								