				ERSITY OF EAST					
				ie: Chemical Engl	ineering and Tech Year IV	nology			
Course title TECHN				4553 10 100					
Department				IOLOGY OF TENSIDES AND TENSIDE-BASED PRODUCTS ment for Chemical Technologies– Faculty of Technology Zvornik					
Course code				Course status		ster	ECTS		
04-2-065-8			Elective			4			
Teacher Zoran Petro		ović, PhD, Assoc	ć, PhD, Associate Professor						
Teaching assistant		Nebojša V	asiljević, MSc, Se	nior Teaching As	sistant				
Number of ho week)	ours/	teaching	workload (per	orkload (per Individual student workload (semester)		in hours per	Student workload coefficient S₀		
Lectures		uditory ercises	Laboratory exercises	Lectures	Auditory exercises	Laboratory exercises	S₀		
2		0	2	30	0	30	1.00		
	2*15+	+0*15+2*15			(2*15*1+0*15*1+2+15*1)=60 hours				
Learning outcomes 1. demonstr behavior wh 2. demonstr 3. demonstr characteriza			ng the course, students will be able to: rate and utilize theoretical knowledge about production technology, characteristics, and nen applying surface-active substances (surfactants/tensides) rate and utilize knowledge about types of surfactants and washing agents (soaps, detergents) rate and utilize knowledge about procedures for obtaining soaps and detergents, and their ation the material and energy balance.						
			iditory exercises, experimental exercises, industrial visits.						
	 Surfactants (tensides). Significance, classification, characteristics, application. Structure of surfactants. Micelles. Solubilization. Emulsifiers and emulsification. Foaming and antifoaming agents. Wetting agents. Raw materials for the production of surfactants. Technological procedures for obtaining surfactants. Anionic surfactants. Cationic surfactants. Non-ionic surfactants. Amphoteric surfactants 								
Au	thor			Title, publis		Year	Pages		
Sadadinović, J.				Organska tehnologija, Ars grafika, Tuzla		2008 o 1992	212-298		
llišković. N. Petrović, Z., Dugić, P. Aleksić, V.			Fizičko-hemijs industrije, U	Tehnološki fakultet Zvornik, Zvornik			417-452 15-158		
A4h = u				Additional reading			Darree		
Author Džokić, D.			knjiga, Beogra	Title, publisher Površinski aktivne materije (tenzidi), Naučna knjiga, Beograd			Pages		
Farn, J.R.			Chemistry and Publishing Ltd		urfactants, Blackw	/ell 2006			

	Type of student evaluation	Grade points	Percentage				
Obligations, assessment	Pre-exam obligations						
	Attendance	6	6 %				
	Mid-term test (Colloquium) 1	20	20 %				
methods and	Mid-term test (Colloquium) 2	24	24 %				
grading system	Laboratory exercises	20	20 %				
	Final examination						
	Final examination (oral)	30	30 %				
	Total	100	100 %				
Web page	www.tfzv.ues.rs.ba						
Date	2023						