T ISTORE			UNIVERSITY OF EAST SARAJEVO									
		Study	/ programn									
			Cvcle I Year IV			35						
Course title OII RF			REFIN	ING TECH	NOLOGY	``						
Department		Depa	artmen	tment for Chemical Technologies- Faculty of Technology Zvornik								
Course code				Course status		Semes	Semester		ECTS			
04-2-060-8					Elective	VIII	VIII		4			
Teacher	Zoran Pet	ran Petrović, Phl		. Prof.								
Teaching assistant	Zoran Pet	Zoran Petrović, PhD, Assoc. Prof.										
Number of hours/ t week)		teaching	work	oad (per Individual student wor semes		udent workload (semester)	workload (in hours per mester)		Student workload coefficient S₀			
Lectures	Au	uditory ercises	Lal ex	boratory Lectures		Auditory exercises	uditory Laboratory ercises exercises		S₀			
2		0		2 30		0	30	1.00				
2*15+0*15+2*15=60 hours (2*15*1+0*15*1+2+15*1)=60 hours												
		A (t (::-)	Tot	al course w	orkload 60 + 60 =	120 hours per se	mester					
Learning 2. ma outcomes 3 dem 4. ma 5. ma			After finishing the course, students will be able to: 1. demonstrate and utilize basic knowledge of oil refining technologies 2. master material and energy balances in oil refining 3 demonstrate and utilize skills in control and management of key technological processes of oil refining 4. master the basic testing methods and product quality standards 5. master the methods of reducing the impact of the refining process oil on the environment									
Prerequisites												
Teaching meth	lods	Lectures, auditory exercises, experimental exercises, student visits to refinery, mid-term test, seminar										
Syllabus out per week	 2. Physical and chemical characteristics of crude oil and testing methods. 3. Petroleum products. Composition, characteristics, quality standards and test methods. 4. Primary oil refining processes (atmospheric and vacuum distillation). 5. Thermal oil refining (viscosity breaking and coking). 6. Catalytic cracking processes (fluidized bed cracking, hydrocracking). 7. Reforming into gasoline. 8. Hydrogen treatment of gasoline and middle distillates. (Mid-term test/Colloquium I) 9. Treatment of acid gases and sulfur production. 10. Alkylation processes. 11. Isomerization and oligomerization processes 12. Mixing of commercial products. Material balance. 13. Base oil production processes. 14. Fuel additives. 15. Environmental aspects of oil refining. (Mid-term test/Colloquium II) 											
Δ1	ithor			Title publisher			Vea	r Dages				
Cerić. E.			Nafta, procesi i		i proizvodi. IBC. S	Sarajevo	2012	2 39-50	79-221. 258-356			
Petrović, Z., Dugić, P., Aleksić, V.			Fiz	Fizičko-hemijska ispitivanja u proce		procesima organ	iske 2012	1 15-158				
				Additional reading			I					
Author				Title, publisher		ner	Yea	r	Pages			
Meyers, R.A.			Ha	Handbook of Petroleum Refining Processes			1997	7	1.3-12.83			
Obligations, assessment		Type of student evaluation						Grade Grade points	Percentage			
methods	and	FIG-GXGIII	ooliga	yauono Attendance				6	6 %			
grading system	n	Mid-term test/Colloquium 1 exercises							10 %			
		Mid-term test/Colloquium 2 exercises						10	10 %			

		Mid-term test/Colloquium 1 theory	15	15 %
		Mid-term test/Colloquium 2 theory	15	15 %
		Laboratory exercises	14	14 %
	Final examination			
		Final examination (oral)	30	30 %
	Total		100	100 %
Web page	www.tfzv.ues.rs.ba			
Date	2023			