			UNIVERSITY OF EAST SARAJEVO							ALCONTONION A		
			Study	program: Chemical Engineering and Technology								
			CYCLE I YFAR IV									
Course title		ENERGY I			-SE3 OF ESS							
Department	Department Department for Process Engineering-Faculty of Technology Zvornik											
Course code				Course status			Semester		ECTS			
				Elective		VII		3				
Teacher		Mita	r Perusic, P	hD, full professor								
assistant Dusko		ko Kostic, N	ISc, teachir	ig assistant								
Teaching workload/Number			per of hours	of hours (weekly)		Individual work (h		k (hours per semester)		Coefficient, S₀		
Lectures	Ai ex	udito ercis	ry La es Ex	boratory (ercises	Lectures		Auditory exercises	Laborator Exercises	So So			
2		1	45 0*45	0		30				1,00		
	2*15)+1°	$15 + 0^{\circ}15 = 4$	$\frac{15 = 45 \text{ n}}{2^{*}15 + 1^{*}15 + 0^{*}}$						n 15 =45 n		
		Afte	r finishina th	e course st	udents will h	be able	, teacher + Stude to:	nių. 4 0+ 40 –	50			
		1.	find ar	nd use litera	ture data on	energy	/, energy and pov	wer plants				
Learning		2.	demoi	nstrate and	utilize the kr	nowledg	e of the concept	and forms of	energy			
outcomes		3.	demoi	nstrate and	utilize the kr	nowledg	e of the types of	fuel and its c	haracteristics			
outcomes		4.	4. demonstrate and utilize the knowledge of the specifics of industrial plants in energy									
		requirements and types of power plants										
Prereguisites		Non	None									
Teaching meth	ods	Lect	ures, class	, class exercises and individual work								
		 Introduction. Basic concepts of energy. Sources of energy. 										
		3. The concept of fuel and energy, characteristics.										
		4. Fuel and heat power.										
		5. I he need for energy in the industry.										
		 b. Combustion. Combustion products and close technology. 										
Syllabus outline		Sombustion products and clean technology. Basic energy in the industry Mid-term test/Colloquium 1										
per week		9. Storage of energy.										
		10. Boiler plants.										
		11. Energy exchange and use in industry.										
		12. Cogeneration.										
		14 Management of industrial energy systems										
		15. Audit and efficiency of power plants. Mid-term test/Colloquium 2.										
					Obligato	ory liter	ature					
Author/s					Title, pu	ublishe	r	Yea	r	Page		
M. Ristić			Gen	eral Energy Irade	v, Faculty c	of Mech	nanical Engineer	ring, 1987	1	1-196		
			Doig	1440	Additio	nal rea	ding					
Author/s				Title, publisher					r	Page		
M. Lambić			Ene	rgetics, Univ	ersity of Novi Sad, TF,		TF, Zrenjanin	2003	3	1-270		
S. Djukanovi		С	Ecol	Ecological Energetics AGM Book, Zemun					1	1-283		
W.C. Turner, S. E		Doty	Ener Fairr	Energy Management Handbook, 6th edition, The 21 Fairmont Press Inc.						1-218		
Obligations, assessment methods and		Type of student evaluation							Grade points	Percentage		
		Pre-exam obligation						<u> </u>	6.0/			
grading system	n	Attendance						0 25	0 % 25 %			
							IVIIC	น-เอกก เฮรเ เ	20	ZJ 70		

	Mid-term test II	25	25 %				
	Seminar paper	14	14 %				
	Final exam						
	Final exam	30	30 %				
	TOTAL	100	100 %				
Web page	www.tfzv.ues.rs.ba						
Date	2023						