Course ID: HTH356	Course name: INTRODUCTION TO CHEMICAL ENGINEERING		
Cycle: (I) FIRST	Year: III (THIRD)	Semester: V	ECTS credits: 2
Course status: MANDATORY	**Total course hours: 45** Lectures: 30 Laboratory: 0		
Teaching participants:	**Teachers and associates with expertise in the field to which the subject belongs.**		
Prerequisite for enrollment:	-		
Course aims:	Introduction to simple mathematics performances of certain fizzcular-chemical legality on which technological operations are based.		
Thematic course units:	1. History of chemical processing industry 2. Balance of forces 3. Operations and apparatus 4. Aggregate states 5. General aspects of fluid mechanics 6. Transfer phenomena 7. Transfer of the amount of movement 8. Heat transfer 9. Mass transfer		

	10. simultaneous mass and heat transfer 11. Examples of problem solving and calculation of basic chemical operations and apparatus 12. Surface phenomena 13. Chemistry engineer in the chemical process industry
Learning outcomes:	The student will be able to: -Siterate the history of the chemical process industry - analyze based on the physical-chemical legality of the technological surgery - Apply knowledge in the field of mass transmission, heat, transmission of the amount of movement, force equilibrium, fluid mechanics, surface phenomena in the field of chemical process industry
Teaching methodology:	1) Method of verball exposure 2) Discussion method 3) Research Method

Assessment methods and grading system:	Grading criteria		
	Criteria	Maximal score	Required score
	1. Class attendance	5	3
	2. Class activities	15	8
	3. Midterms	40	22
	4. Final exam	40	22
	Total	100	55
	Scores and grading		
	Score	Grade (B&H)	Grade (ECTS)
	< 55	5	F, FX
	55–64	6	E
	65–74	7	D
	75–84	8	C
	85–94	9	B
	95–100	10	A

Literature:	1. Rozgaj, Osnovi tehnoloških operacija, Univerzitet u Sarajevu, Sarajevo, 1976. 2. E. Ahmetović, M. Suljkanović, Toplinske operacije-toplinske osobine hrane, izmjenjivači topline i isparivači, TF, Tuzla2007. (interna skripta)

	3. D. M. Himmelblau, J. B. Riggs, Basic Principles and Calculations in Chemical Engineering:International Edition,Addison-Wesley, Pearson Education, 2003 4. R.M. Felder, R.W. Rousseau, Elementary Principles of Chemical Processes, 3th ed., John Wiley & Sons, Inc., 2005.