



Form SP2

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UNIVERSITY OF SARAJEVO – FACULTY OF SCIENCE Department of Chemistry

Course ID: HTHI01	Course name: SELECTED PRINCIPLES AND PROCESSES IN INDUSTRIAL CHEMISTRY				
Cycle: II (SECOND)	Year: I (FIRST)		Semester: I	ECTS credits: 4	
Course status: ELE	CTIVE		Total course hours: 60 Lectures: 30 Laboratory: 30		
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs.			
Prerequisite for enrollment:		-			
Course aims:		To give students basic knowledge about the most important principles and processes in industrial chemistry, which are not only the basis for overcoming any technological process but also crucial in designing any chemical product procedures.			
Thematic course units:		 Principles of mass exchanges Principles of exchanging or transmission of heat Moving the balance of chemical processes Chemical reactors Principles of homogeneous and heterogeneous processes and reactors Catalytic processes Raw material enrichment Principles of electrochemical processes 			

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	9. Principles of purification and separation				
Learning outcomes:	The student will be able to: - Apply knowledge about the most important principles and processes in industrial chemistry based on the overcoming of knowledge from technological processes in designing any chemical product procedures.				
Teaching methodology:	 Method of verball exposure Discussion method Research method Method of practical work 				
	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		
Assessment methods	Total 100 55				
	Scores and grading				
and grading system:	Score	Grade (B&H)	Grade (ECTS)		
	< 55		F, FX		
	55-64		<u>г, гл</u> Е		
	65-74	7	D		
	75-84	8	C		
	85-94	9	В		
	95-100	10	A		
Literature:	: 1. M. Baerns, A.Behr, A.Brehm, J. Gmehling, H. Hofmann, U. Onken, A. Renken: Technische Chemie, Wiley-VCH, Weinheim, 2006 2. A.Behr, D.W.Ager, J.Jörissen: Einführung in die Technische Chemie; Spektrum-Akademischer verlag, 2010 3. Abulencia, P.J.&Theodore L. 2009, "Fluid flow for the Practicing Chemical Engineer", John Wiley&Sons				