

Course ID: HTHI25	Course name: AUTOMATION AND MANAGEMENT OF TECHNOLOGICAL PROCESSES				
Cycle: II (SECOND)	Year: I (FIRST)		Semester: I	ECTS credits: 5	
Course status: MANDATO		DRY	Total course hours: Lectures: 45 Laboratory: 30	75	
Teaching participants:		Teachers and associates with expertise in the field to which the subject belongs.			
Prerequisite for enrollment:		-			
Course aims:		Consulting the importance of management in the chemical industry, as well as the roles of the Chemical Engineer in this area.			
Thematic course units:		 Basic definitions, basic principles and elements of the management system. Process system as a management facility: Dynamic characteristics in a temporal and frequency domain, simple examples of characteristic processes in industrial chemistry. Instrumentation: Measuring elements, executive elements, regulators and accessories. Basic practical aspects of management of technological processes. 			
Learning outcomes:		 Students will be able to: Apply knowledge, basic principles and elements of the management system Assess dynamic characteristics in a temporal complex frequency domain master practical aspects of management of technological processes 			
Teaching methodology:		1) Method of verball exposure			

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	2) Discussion method					
	3) Research method					
	4) 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			
	Total	100	55			
Assessment methods	Scores and grading					
and grading system:	Score	Grade	Grade			
		(B&H)	(ECTS)			
	< 55	5	F, FX			
	55-64	6	E			
	65-74 75-84	7	D C			
	85-94	<u> </u>	 B			
	95-100	10	A			
	Dopunska:					
	1. M. Petkovska, "Merenje i upravljanje u procesnim					
	sistemima" TMF, Beograd, 2007					
	2. A. Gilat, "Uvod u Matlab 7 sa primjerima", Mukro knjiga,					
Literature:	Beograd, 2005					
	3. D.E. Seborg, T.E. Edgar, D.A. Mellichamp, "Process					
	Dynamics and Control", Willey, Danvers, 2004					
	4. G.K. McMillan, D.M. Considine, "Process/Industrial					
	Instruments and Controls Handbook", McGraw-Hill, New					
	v-11111, INEVV					
	York, 1999					