

## UNIVERSITY OF NIŠ

Course Unit Descrip	otor	Faculty <sub>F</sub>	aculty of Med	chanical Engineering			
GENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Basic of Process Engineering						
Level of Study	⊠Bachelor □ Master's □ Doctoral			□ Doctoral			
Type of Course	□ Obligatory ⊠ Elective						
Semester	⊠ Autumn Spring						
Year of Study	III						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Assoc.Prof. Gordana Stefanovic						
	□ Lectures	☐ Group	tutorials	☐ Individual tutorials			
Teaching Mode	□ Laborator	ry work 🗵 Proje	ct work	⊠ Seminar			
	☐ Distance I	learning 🗆 Blend	ed learning	□ Other			
Purpose and Overview (max. 5 ser	ntences)						
Introducing students to the basics of chemical reactions and chemical reactors in process and other industries.							
Syllabus (brief outline and summary of topics, max. 10 sentences)							
reactions, 3) Chemical equilibr kinetics, Molecularity of reacti temperature. 5) Chemical ther	ium, The dep ons, Order of modynamics,	endence of chemical e chemical reactions. D Enthalpy and entropy	equilibrium co ependence of of reactions,	ys of thermodynamics to the chemical nstant on the temperature, 4) Chemical the reaction rate constant on the Gibbs energy, 6) Thermodynamic, cal reactor design and operation.			
Language of Instruction		, ,		Ü ,			
⊠Serbian (complete course)							
☐ Serbian with English mentoring ☐ Serbian with other mentoring							
Assessment Methods and Criteria							
Pre exam Duties	Points	Final Exam	Points				
Activity During Lectures	5	Written Examinatio	Max. 40 (d	epending on Teaching Colloquia)			
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Practical Teaching	15	Oral Examination	40		
Teaching Colloquia	40	Overall Sum	100		
*Final examination mark is formed in accordance with the Institutional documents					

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