

UNIVERSITY OF NIŠ

Course Unit Descrip	otor	Faculty	Faculty of Med	chanical Engineering	
GENERAL INFORMATION					
Study Program	Mechanical Engineering				
Study Module (if applicable)	-				
Course Title	Diffusion Operations and Apparatuses				
Level of Study	⊠Bachelor	☐ Mas	ter's	□ Doctoral	
Type of Course	☐ Obligator	y 🗵 Elec	tive		
Semester	☐ Autumn	⊠ Spri	ng		
Year of Study	IV				
Number of ECTS Allocated	6				
Name of Lecturer/Lecturers	Mića V. Vuki	ć			
	□ Lectures	☐ Grou	p tutorials	☐ Individual tutorials	
Teaching Mode	☐ Laborato	ry work 🗵 Proje	ect work	⊠ Seminar	
	☐ Distance I	learning 🗆 Blen	ded learning	☐ Other	
Purpose and Overview (max. 5 ser	ntences)				
Introducing students to the diffusion apparatuses design.	on operations	and equipment in ch	emical and oth	ner industries. Basic principles of diffusior	
Syllabus (brief outline and summa	ry of topics, r	max. 10 sentences)			
coefficients. 2) Classification of m batch distillation. Continuous disti column distillation. 4) Absorption a	ass transfer of llation with round Stripping.	operations and mas eflux. Binary distillat Packed Columns. Pla	s transfer equi ion design: Mate Columns 5)	sfer coefficients. Overall mass transfer ipment. 3) Distillation: flash distillation cCabe–Thiele graphical method. Packed) Adsorption. 6) Extraction. Liquid–liquic es. 8) Crystallization. Other separation	
Language of Instruction					
⊠Serbian (complete course)	⊠ Engli	ish (complete course)) 🗆 Ot	her(complete course)	
☐ Serbian with English mentoring	☐ Serbian with other mentoring				
Assessment Methods and Criteria	1				
Pre exam Duties	Points	Final Exam	Points		
Activity During Lectures	5	Written Examination	o (or max 6	60 depending on Pre exam Duties)	

Practical Teaching	5	Oral Examination	Max. 30 (depending on Project work)		
Project work	60	Overall Sum	100		
*Final examination mark is formed in accordance with the Institutional documents					

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