

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	y	Faculty of Me	chanical Engineering	
GENERAL INFORMATION						
Study Program	Mechanical Engineering					
Study Module (if applicable)	-					
Course Title	THERMODYNAMICS OF MULTIPHASE FLOWS					
Level of Study	Bachelo	□Bachelor □ Master's ⊠ Doctoral				
Type of Course	□ Obligatory					
Semester	🗆 Autum	n	🛛 Sprir	⊠ Spring		
Year of Study	1					
Number of ECTS Allocated	10					
Name of Lecturer/Lecturers	Živković S. Dragoljub, Janevski N. Jelena					
	⊠ Lecture	es	🗌 Grou	o tutorials	Individual tutorials	
Teaching Mode	□ Laboratory work		Project work		🖂 Seminar	
	□ Distance learning		□ Blended learning		□ Other	
Purpose and Overview (max. 5 se	intences)					
	ler and solve	e various pheno	omena ind	ependently,	g various multi phase flows. based on scientific principles, to define ns in the field of thermodynamics of	
Syllabus (brief outline and summ	ary of topic	s, max. 10 sente	ences)			
flow; 5) Annular flow; 6) Heat Generation of vapour phase in conditions; 10) Crisis of heat tran	transfer in free and fo sfer during l y of two pha	two phase flo rced convectio boiling in large ase flow; 13) Tw	ow; 7) Tw on boiling liquid vo	vo phase flo ; 9) Generat lumes and in	e flows; 4) Pressure change in two phase w water vapour-water droplet type; 8) ion of vapour phase in non-equilibrium an evaporative channel;11) Heat transfer gy and process engineering; 14) Safety of	
Language of Instruction						
Serbian (complete course)	⊠ Er	nglish (complete	e course)		ther (complete course)	
□Serbian with English mentoring	ş □Se	rbian with othe	er mentor	ing		
Assessment Methods and Criter	ía					

Pre exam Duties	Points	Final Exam	Points			
Activity During Lectures	5	Written Examination	50			
Practical Teaching	10	Oral Examination	Max. 35 (depending on Teaching Colloquia)			
Teaching Colloquia	35	Overall Sum	100			
*Final examination mark is formed in accordance with the Institutional documents						