

## 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	THERMODYNAMICS OF MULTIPHASE FLOWS						
Level of Study	□Bachelor	□ Mas	ster's	⊠ Doctoral			
Type of Course	☐ Obligator	y 🛭 Elec	tive				
Semester	☐ Autumn	⊠ Spr	ng				
Year of Study	1						
Number of ECTS Allocated	10						
Name of Lecturer/Lecturers	Živković S. Dragoljub, Janevski N. Jelena						
Teaching Mode	□ Lectures	☐ Grou	ıp tutorials	☐ Individual tutorials			
	☐ Laborato	ry work 🗵 Proj	ect work	⊠ Seminar			
	☐ Distance	learning 🗆 Blen	ded learning	☐ Other			
Purpose and Overview (max. 5 ser	ntences)						
	er and solve va	arious phenomena in	dependently, b	various multi phase flows. based on scientific principles, to ns in the field of thermodynamic			
Syllabus (brief outline and summary of topics, max. 10 sentences)							
1) Two phase flows; 2) Regimes of flow; 5) Annular flow; 6) Heat to Generation of vapour phase in fr conditions; 10) Crisis of heat transf during condensation;12) Instability nuclear power plants; 15) Safety of	ransfer in tw ree and force fer during boi of two phase	o phase flow; 7) Ted convection boiling in large liquid vor flow; 13) Two phase	wo phase flow g; 9) Generati Dlumes and in	v water vapour-water droplet on of vapour phase in non-e an evaporative channel;11) Hea	t type; 8) quilibrium at transfer		
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	50
Practical Teaching	10	Oral Examination	Max. 35 (depending on Teaching Colloquia)
Teaching Colloquia	35	Overall Sum	100

<sup>\*</sup>Final examination mark is formed in accordance with the Institutional documents