

UNIVERSITY OF NIŠ

Course Unit Descriptor		Facult	у	Faculty of Me	chanical Engineering	
GENERAL INFORMATION		0				
Study Program	Mechanical Engineering					
Study Module (if applicable)	-					
Course Title	Numerical simulation of fluid flow					
Level of Study	Bachelor		🗆 Mas	□ Master's		
Type of Course	Obligatory		⊠ Elective			
Semester	🛛 Autumn		□ Spring			
Year of Study	11					
Number of ECTS Allocated	10					
Name of Lecturer/Lecturers	dr Zivan Spasić, dr Jasmina B. Bogdanović-Jovanović					
	⊠ Lectures		🗌 Grou	p tutorials	Individual tutorials	
Teaching Mode	□ Laboratory work		🛛 Proje	ect work	🛛 Seminar	
	□ Distance learning		🗆 Blen	ded learning	□ Other	
Purpose and Overview (max. 5 se	ntences)					
modelling and numerical solving of	flow through	the profile co	ascades, i	using approprie	icquiring skills in the methodology of ate software. ples, models of flow through straight and	
Syllabus (brief outline and summa	ary of topics,	max. 10 sent	ences)			
the turbomachinery cascades. 3) Th dimension flow model. 6) Flow thre two mutually dependent two-dime meridional surface. 10) Calculation	ne schematizat ough the axial- nsional flow. g of flow accord for turbulent j	tion of flow t -flow profile 9) The flow a ling to the ax	hrough t cascades. veraging tisymmet	he cascades. 4) 7) Flow throug to the circular rical flow surfa	direct task of the theory of flow through One-dimension flow model. 5) Two- gh the radial profile cascades. 8) Model of component and calculation of flow in the ices 11) Three-dimension flow model. 12) uations. 13) Numerical solution of the flov	
Language of Instruction						
⊠Serbian (complete course)	🖂 Engl	lish (complet	e course) 🗆 Ot	her (complete course)	
□Serbian with English mentoring	□Serbi	ian with othe	er mento	ring		
Assessment Methods and Criteria	a					

Pre exam Duties	Points	Final Exam	Points			
Activity During Lectures	5	Written Examination	Max 40, depending on Teaching Colloquia			
Practical Teaching	5	Oral Examination	50			
Teaching Colloquia	40	Overall Sum	100			
*Final examination mark is formed in accordance with the Institutional documents						