

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	Faculty of Mec	culty of Mechanical Engineering			
GENERAL INFORMATION		Ц	<u>.</u>				
Study Program	Mechanic	Mechanical Engineering					
Study Module (if applicable)	-	-					
Course Title	Turbulent F	Turbulent Fluid Flow Modelling					
Level of Study	Bachelo	□ Bachelor □ Master's ⊠ Doctoral					
Type of Course	Obligato	Obligatory Elective					
Semester	🗆 Autumn	□ Autumn ⊠ Spring					
Year of Study	11	11					
Number of ECTS Allocated	10	10					
Name of Lecturer/Lecturers	Žarko M. Sto	Žarko M. Stevanović, Miloš M. Jovanović, Predrag M. Živković					
Teaching Mode	⊠ Lectures	Grou	ıp tutorials	Individual tutorials			
	🗆 Laborate	ory work 🛛 🖾 Proj	ect work	Seminar			
	Distance	learning 🗌 Bler	ded learning	□ Other			
Purpose and Overview (max. 5 s	sentences)						
To gain new knowledge in the f scientific principles appropriate m	field of modell nodels of turbul	ing turbulent flows. T ent flow which are rela	o enable stude ted to PhD thes	nts to formulate independ is.	ently and on		
Syllabus (brief outline and summ	mary of topics,	max. 10 sentences)					
1) Turbulent flows concept. 2) Tu turbulent viscosity. 4) Modeling simulation of turbulent flows.	urbulence mod ; of the Turbul	elling-algebraic stress ent Fluxes. 5) LES ar	models. 3) Tur d DES models	bulence model based on th of turbulent flows. 6) Dire	e concept of ct numerical		
Language of Instruction							
Serbian (complete course) English (complete co) 🗆 Oth	er(comple	ete course)		
□Serbian with English mentorin	ng 🗌 Serb	ian with other mento	ring				
Assessment Methods and Crite	ria						
Pre exam Duties		s Final Exam	Points				
Activity During Lectures		Written Examinati	on -				
Practical Work		Oral Examination	Max. 50	Max. 50			

Teaching Colloquia or Seminar	o	Overall Sum	100				
*Final examination mark is formed in accordance with the Institutional documents							