

UNIVERSITY OF NIŠ

Course Unit Descrip	otor	Faculty	-aculty of Med	chanical Engineering			
GENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Modelling in Energy and Process Engineering						
Level of Study	☐ Bachelor	☐ Mast	er's	⊠ Doctoral			
Type of Course	☐ Obligator	y 🛭 Elect	ive				
Semester	☐ Autumn	⊠ Sprir	ıg				
Year of Study	I						
Number of ECTS Allocated	10						
Name of Lecturer/Lecturers	Dragica R. Milenković, Mladen M. Stojiljković, Branislav V. Stojanović, Mića V. Vukić						
Teaching Mode	☑ Lectures☐ Laborator☐ Distance I	ry work 🗵 Proje	tutorials ct work led learning	☐ Individual tutoria☐ Seminar☐ Other	als		
Purpose and Overview (max. 5 sentences)							
To gain new knowledge in the field of modelling of objects and processes in energy and process engineering. To enable students to formulate independently and on scientific principles appropriate mathematical model which is related to the PhD thesis.							
Syllabus (brief outline and summary of topics, max. 10 sentences)							
Dynamic of objects and processes. 2) Dynamics of flow processes: Mathematical models of flow processes with focused parameters; Mathematical models of flow processes with distributed parameters; Deterministic and stochastic processes. 3) Dynamics of flow-thermal processes. 4) Dynamics of machines and motors. 5) Dynamics of energetic plants: Dynamics of mydro-energetic plants; Dynamics of thermal power plants. Language of Instruction							
☑ Serbian (complete course) ☑ English (complete course) ☐ Other (complete course)							
Serbian with English mentoring							
Assessment Methods and Criteria							
Pre exam Duties	Points	Final Exam	Points				
Activity During Lectures	-	Written Examinatio	n -				

Practical Work	50	Oral Examination	Max. 50			
Teaching Colloquia or Seminar	-	Overall Sum	100			
*Final examination mark is formed in accordance with the Institutional documents						