

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	y Fa	culty of Mechanical Engineering			
GENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	TRANSIENT PROCESSES IN ENERGY AND PROCESS ENGINEERING						
Level of Study	Bachelor	□Bachelor □ Master's ⊠ Doctoral					
Type of Course	Obligator	Obligatory Elective					
Semester	□ Autumn ⊠ Spring						
Year of Study	1						
Number of ECTS Allocated	10						
Name of Lecturer/Lecturers	Živković S. Dragoljub, Blagojević D. Bratislav, Stefanović P. Velimir, Stojanović V. Branislav						
	⊠ Lectures		Group	utorials	🗆 Individual t	tutorials	
Teaching Mode	🗆 Laborato	ory work	🛛 Project	work	🛛 Seminar		
	□ Distance	learning	🗆 Blende	d learning	\Box Other		
Purpose and Overview (max. 5 sentences)							
 To introduce students to various phenomena occurring during transport processes in energy and process engineering. To enable students for independent problem solving based on scientific principals and to solve various problems in the field of energy and process engineering. 							
Syllabus (brief outline and summary of topics, max. 10 sentences)							
1) Transient processes in therma parameters; 3) Mathematical mod of heat exchangers; 5) Dynamics o in steam turbines; 8) Transient pro with constant pressure; 10) Tran processes in gas-turbine plants; 12)	l energy plan els of thermo of machines al ocesses in nuc isient process) Dynamics of	its; 2) Mathe idynamic-flow nd engines; 6 clear-energy p ses during re cooling facili	matical moves v processes) Transient plants; 9) T egulation c ties; 13) Dyi	odels of flo with focus processes ransient pro f steam bl- namics of he	w processes w s on distributed in boiler faciliti ocesses during ock with slidir eating and vent	with focus on distri l parameters; 4) Dyr les; 7) Transient proo regulation of steam ng pressure; 11) Tra tilation facilities.	ibuted namics cesses n block insient
Language of Instruction							
⊠Serbian (complete course)	🖂 Engl	ish (complete	e course)	□ Ot	ther	(complete cou	rse)
□Serbian with English mentoring □Serbian with other mentoring							
Assessment Methods and Criteria							
Pre exam Duties	Point	s 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							