

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	,	Faculty of Me	chanical Engineering		
GENERAL INFORMATION		<u>n</u>					
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Thermal Energy Plants						
Level of Study	Bachelor	Bachelor		Master's Doctoral			
Type of Course	□ Obligatory		🛛 Elec	tive			
Semester	🗆 Autumn		⊠Spri	ng			
Year of Study	IV						
Number of ECTS Allocated	5						
Name of Lecturer/Lecturers	Dragoljub S	5. Živković					
	⊠ Lectures	5	🗆 Grou	ıp tutorials	🗆 Individual	l tutorials	
Teaching Mode	□ Laboratory work		🛛 Proje	ect work	🛛 Seminar		
	□ Distance learning		🗆 Blen	ded learning	□ Other		
Purpose and Overview (max. 5 s	entences)						
Introduce students to the most im enables the mastering of calculation plants.							
Syllabus (brief outline and summ	nary of topics,	, max. 10 sente	ences)				
1) General introduction - energy r plants; 2) Thermodynamics basic standpoint of the first and the se Thermodynamics basics of gas bl block; 4) Combined production o plants; 6) Power plants and therr plants with water; 9) Removal of cooling system, transformers, ow plants.	s of steam blo cond law of th ock – Basic an if electricity ar nal power pla slag and ash;	ock – Basic and nermodynamic Id main thermo Id thermal ene nts; 7) Supply 10) Electrical e	main th cs, thern odynam ergy (cog of thern equipme	nermodynamic nodynamic imp ic parameters, generation); 5) nal power plan ent of thermal	parameters, s provement of thermodynar Heating plan Its with fuel; 8 power plants	steam block from the steam block; 3) nic improvement of g its and industrial pow 3) Supply of thermal p – generator, generato	gas ver power
Language of Instruction							
⊠Serbian (complete course)	🛛 Eng	glish (complete	e course) 🗆 Ot	her	(complete cou	ırse)
□Serbian with English mentorin	g 🗆 Sert	oian with other	r mento	ring			
Assessment Methods and Criter	ia						

Pre exam Duties	Points	Final Exam	Points				
Activity During Lectures	5	Written Examination	10				
Practical Teaching	5	Oral Examination	Max. 30 (depending on Teaching Colloquia)				
Teaching Colloquia	50	Overall Sum	100				
*Final examination mark is formed in accordance with the Institutional documents							