

## **UNIVERSITY OF NIŠ**

Course Unit Descripto		Faculty	Faculty of Mec	hanical Engineerir	ıg	
GENERAL INFORMATION						
Study Program	Mechanical Engineering					
Study Module (if applicable)	-					
Course Title	Boilers					
Level of Study	Bachelor Doctoral					
Type of Course	□ Obligatory					
Semester	□ Autumn					
Year of Study	IV					
Number of ECTS Allocated	6					
Name of Lecturer/Lecturers	Branislav V. Stojanović, Jelena N. Janevski, Dragica R. Milenković					
Teaching Mode	<ul> <li>☑ Lectures</li> <li>□ Laborato</li> <li>□ Distance</li> </ul>	ry work 🛛 Proje		□ Individual tuto ⊠ Seminar	rials	
Purpose and Overview (max. 5 ser	Distance		led learning	□ Other		
Introduction to boilers used in the energy sector and industry, furnaces and combustion, mass and energy balances, basic elements and calculations, problems at work.						
Syllabus (brief outline and summary of topics, max. 10 sentences)						
1) Division of boilers, 2) Fuels and Combustion, 3) Material and heat balance of the boiler, 4) Firebox and devices for combustion, 5) Heating surface, 6) The thermal calculation of the boiler, 7) Heat transfer in the boiler, 8) Aerodynamics air and gas tract, 9) Hydraulic processes in boiler, 10) Boiler steels and calculating strength.						
Language of Instruction						
Serbian (complete course)				_(complete course)		
□Serbian with English mentoring □Serbian with other mentoring						
Assessment Methods and Criteria						
Pre exam Duties	Points	Final Exam	Points	Points		
Activity During Lectures	5	Written Examinatio	n 50	50		
Practical Teaching	10	Oral Examination	Max. 35 (de	epending on Teach	ning Colloquia)	

Teaching Colloquia	35	Overall Sum	100					
*Final examination mark is formed in accordance with the Institutional documents								