UNIVERSITY OF NIŠ

Course Unit Descriptor	Faculty	Faculty of Mechanical Engineering

GENERAL INFORMATION	
Study Program	Mechanical Engineering
Study Module (if applicable)	-
Course Title	Selected Topics in Steam Boilers
Level of Study	☐Bachelor ☐ Master's ☒ Doctoral
Type of Course	☐ Obligatory ☒ Elective
Semester	☒ Autumn ☐ Spring
Year of Study	II
Number of ECTS Allocated	10
Name of Lecturer/Lecturers	Branislav V. Stojanović,
Teaching Mode	☐ Lectures ☐ Group tutorials ☒ Individual tutorials ☐ Laboratory work ☒ Project work ☒ Seminar ☐ Distance learning ☐ Blended learning ☐ Other

Purpose and Overview (max. 5 sentences)

Acquiring knowledge in specific areas of design, modeling and operation of steam boilers.

Syllabus (brief outline and summary of topics, max. 10 sentences)

1) The tendency of development of modern energy, 2) Thermal scheme. Factors that influence the thermal pattern of the steam boiler, 3) Optimization and control of processes in the combustion chamber, 4) Prospecting combustion of fuel in a fluidized bed, 5) Reconstruction and revitalization of steam boiler. 6) Numerical modeling and simulation of the operation of certain parts of the steam boiler, 7) Optimization of construction of a steam boiler.

Language of Instruction

☒Serbian (complete course) ☐ English (complete course) ☐ Other _____ (complete course)

☒Serbian with English mentoring ☐Serbian with other mentoring _____

Assessment Methods and Criteria

Pre exam Duties	Points	Final Exam	Points
Activity During Lectures	5	Written Examination	0

Practical Teaching	**0**	**Oral Examination**	**50**
Teaching Colloquia	**35**	**Overall Sum**	**100**
***Final examination mark is formed in accordance with the Institutional documents**			