UNIVERSITY OF NIŠ

Course Unit Descriptor	Faculty	Faculty of Mechanical Engineering

GENERAL INFORMATION	
Study Program	Mechanical Engineering
Study Module (if applicable)	-
Course Title	Heat operations and apparatus
Level of Study	☒Bachelor ☐ Master's ☐ Doctoral
Type of Course	☐ Obligatory ☒ Elective
Semester	☒ Autumn ☐ Spring
Year of Study	IV
Number of ECTS Allocated	6
Name of Lecturer/Lecturers	Jelena N. Janevski
Teaching Mode	☒ Lectures ☐ Group tutorials ☐ Individual tutorials ☐ Laboratory work ☒ Project work ☐ Seminar ☐ Distance learning ☐ Blended learning ☐ Other

Purpose and Overview (max. 5 sentences)

Introducing students to heat operations and devices in process and other industries and studying the basic principles for the design of heat appliances.

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

1) C lassification of heat operation, 2) Basic principles of construction and design of heat apparatus, 3) Classification of heat apparatus., 4) Working medium with of heat apparatus, 5) Calculation of heat apparatus, 6) Recuperative heat exchangers, 7) Regenerative heat exchangers, 8) The batch heat exchangers, 9) contact heat exchangers, 10) heat exchangers with fluidized bed, 11) Heat exchangers with electric heating

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	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**			