	UNIVERSITY OF NIŠ	
Course Unit Descriptor	**Faculty**	Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	**Mechanical Engineering**
Study Module (if applicable)	-
Course Title	Wastewater treatment
Level of Study	☒Bachelor ☐ Master's ☐ Doctoral
Type of Course	☐Obligatory ☒Elective
Semester	Autumn ☒Spring
Year of Study	IV
Number of ECTS Allocated	5
Name of Lecturer/Lecturers	Assoc. Prof. Gordana Stefanovic
Teaching Mode	☒ Lectures ☐ Group tutorials ☐ Individual tutorials ☐Laboratory work ☒ Project work ☒ Seminar ☐ Distance learning ☐ Blended learning ☐ Other

Purpose and Overview (max. 5 sentences)

The aim of the course is to enable students to connect and expand their acquired knowledge in the field of mechanical operations in order to apply them to the wastewater treatment

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

1) Introduction: water in nature, quantity and distribution. 2) Wastewater pollutants, types of wastewater. 3) Wastewater quality indicators: specific and non-specific indicators. 4) Generation of wastewater in industry. 5) The physical-chemical characteristics of industrial wastewater. 6) Physical methods of wastewater treatment. 7) The chemical processes of wastewater treatment. 8) Aerobic and anaerobic methods of wastewater treatment. 9) Combined technological systems. 10) Measuring and regulation systems.

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	**10**	**Written Examination**	**Max. 50 (depending on Teaching Colloquia)**

Practical Teaching	10	Oral Examination	30
Teaching Colloquia	50	Overall Sum	100

*Final examination mark is formed in accordance with the Institutional documents