



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Mechanical Engineering
Study Module (if applicable)	-
Course Title	Processes and Equipment in Environmental Engineering
Level of Study	<input type="checkbox"/> Bachelor <input type="checkbox"/> Master's <input checked="" type="checkbox"/> Doctoral
Type of Course	<input type="checkbox"/> Obligatory <input checked="" type="checkbox"/> Elective
Semester	Autumn <input checked="" type="checkbox"/> Spring
Year of Study	I
Number of ECTS Allocated	10
Name of Lecturer/Lecturers	Assoc.Prof. Gordana Stefanovic
Teaching Mode	<input checked="" type="checkbox"/> Lectures <input type="checkbox"/> Group tutorials <input type="checkbox"/> Individual tutorials <input type="checkbox"/> Laboratory work <input checked="" type="checkbox"/> Project work <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> Distance learning <input type="checkbox"/> Blended learning <input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

The course is designed to introduce students of doctoral studies in the field of energy and process engineering with all aspects of environmental pollution and solving the problems on the principles of sustainable development.

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

1) Technology and environmental protection, 2) The influence of the process engineering industry on the environment, 3) The consequences of pollution of air, water, soil; Emission and imission, 4) Air pollution, Dispersion of air pollutants; Modelling of air pollution dispersion; Processes and equipment for flue gas treatment, 5) Water pollution, Classification of sources of water pollutions; Parameters of water quality; Modelling of water pollution dispersion; Processes and equipment for waste water treatment, 6) Pollution and soil degradation, 7) Processes and equipment for solid waste treatment, 8) Processes and equipment in hazardous waste management, 9) Application of IT in the field of environmental protection, 10) Environmental pollution monitoring.

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
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Term papers	70	Oral Examination	30
		Overall Sum	100

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