



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Energy and Process Engineering		
Study Module (if applicable)	-		
Course Title	Purification Techniques		
Level of Study	<input type="checkbox"/> Bachelor	<input checked="" type="checkbox"/> Master's	<input type="checkbox"/> Doctoral
Type of Course	<input type="checkbox"/> Obligatory	<input checked="" type="checkbox"/> Elective	
Semester	<input checked="" type="checkbox"/> Autumn	<input type="checkbox"/> Spring	
Year of Study	I		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Mladen M. Stojiljković, Predrag M. Živković		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input type="checkbox"/> Laboratory work	<input type="checkbox"/> Project work	<input type="checkbox"/> Seminar
	<input type="checkbox"/> Distance learning	<input type="checkbox"/> Blended learning	<input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

Introducing students to the equipment, methods and mechanisms of gas purification.

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

Physical background of purification processes. Purification and filtration of gasses. Deposition and inertial chambers. Blinds. Centrifugal purifiers – cyclones and multicyclones. Filters. Design and sizing of dry gas purifiers. Wet gas purifiers. Dynamic gas purifiers. Design and sizing of wet gas purifiers. Purification and filtration of liquids. Hydrocyclones. Mechanical filtration. Air filters. Membrane separation processes.

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	- (or max 70 depending on Pre exam Duties)

Practical Teaching	25	Oral Examination	Max. 30 (depending on Teaching Colloquia)
Teaching Colloquia	40	Overall Sum	100

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