



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Engineering Management		
Study Module (if applicable)	Energy Management		
Course Title	Modern Energy Technologies		
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	Mirjana S. Laković-Paunović, Dejan Mitrović, Živan Spasić		
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)

Introduce students to the basics of energy systems, use of the modern energy technologies from the aspects of energy efficiency in the transformation, distribution and final use of energy in the energy sector, environmental, economic and social aspects of energy use.

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

- General introduction to energy policy, - Energy transformation basics, - Renewable and non-renewable energy sources, - Modern technologies for transformation of primary energy into heat energy, - Modern technologies for transformation of primary energy into electrical energy, - Modern technologies for coupled production of electricity and heat, - Modern technologies for the transformation of hydropower, - Modern technologies for the transformation of water energy, - Modern technologies for the transformation of wind energy, - modern technologies for energy deposit toward to increase of energy efficiency and cost reduction for purchase of primary energy

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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Activity During Lectures	5	Written Examination	-
Practical Teaching	5	Oral Examination	Max.60 (depending on Teaching Colloquia)
Teaching Colloquia	30	Overall Sum	100

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