



# UNIVERSITY OF NIŠ

**Course Unit Descriptor**

**Faculty**

Faculty of Mechanical Engineering

## GENERAL INFORMATION

Study Program	<b>Engineering Management</b>		
Study Module (if applicable)	-		
Course Title	Energy Management		
Level of Study	<input checked="" type="checkbox"/> Bachelor	<input 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	IV		
Number of ECTS Allocated	7		
Name of Lecturer/Lecturers	Mirjana S. Laković-Paunović, Dejan Mitrović		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input checked="" 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, especially in industry and buildings, security of energy supply, environmental, economic and social aspects of energy use.

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

1) General introduction to energy policy, 2) Sustainable social development, environment, energy and energy-technological innovation, 3) Energy transformation basics, 4) Energy Management System ISO 5001, 5) Energy indicators, 6) Energy Efficiency, 7) Energy management in industry, 8) Preliminary energy balance, 9) Detailed energy balance 10) Energy management in buildings, 11) Cost Benefit Analysis, 12) Energy management in municipalities and cities, 13) . Top Runner Program

## 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	-

<b>Practical Teaching</b>	<b>5</b>	<b>Oral Examination</b>	<b>Max.60 (depending on Teaching Colloquia)</b>
<b>Teaching Colloquia</b>	<b>30</b>	<b>Overall Sum</b>	<b>100</b>

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