



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	Energy management in municipalities and townships		
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	7		
Name of Lecturer/Lecturers	Dragoljub Žvković, Živan Spasić, Jelena Manojlović		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input checked="" 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)

Introduce students to concepts of energy management in municipalities and townships, methods of energy balance and planning, project identification, financial and economic analysis and risk analysis. Mastering methods of energy management in municipalities and townships, preparation of energy efficiency projects of public buildings and district heating systems, water supply systems and public lighting.

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

1) Energy management in municipalities and townships, 2) Data acquisition, 3) Energy balance, 4) Energy planning, 5) Identification of energy efficiency projects, 6) Preparation of energy efficiency projects, 7) Parameters of project rentability, 8) "Cost-benefit" analysis (Financial, economic and risk analysis), 9) Projects of energy efficiency of public buildings, 10) Projects of energy efficiency of distinct heating systems, 11) Projects of energy efficiency of water supply systems, 12) Projects of energy efficiency of public lighting 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
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Activity During Lectures	5	Written Examination	10 (student case study paper)
Practical Teaching	5	Oral Examination	30
Teaching Colloquia	50	Overall Sum	100

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