



# UNIVERSITY OF NIŠ

**Course Unit Descriptor**

**Faculty**

Faculty of Mechanical Engineering

## GENERAL INFORMATION

Study Program	<b>Engineering Management</b>		
Study Module (if applicable)	<b>Industrial management</b>		
Course Title	Engineering methods		
Level of Study	<input type="checkbox"/> Bachelor	<input checked="" type="checkbox"/> Master's	<input type="checkbox"/> Doctoral
Type of Course	<input checked="" type="checkbox"/> Obligatory	<input 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	Miroslav R. Radovanović, Predrag Lj. Janković		
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 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 engineering methods. The course is targeting both the theoretical and practical aspects of engineering methods.

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

1) Importance of engineering methods, 2) Systems and processes, 3) Engineering modeling, 4) Methods of experimental research. Theory of planning the experiment. Statistical analysis of experimental results, 5) Optimization in engineering, 6) Optimization methods, 7) Multiple criteria decision making, 8) Techniques of engineering quality, 9) Measurement and control. Processing of measurement results and display the results.

## 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	30

<b>Practical Teaching</b>	<b>5</b>	<b>Oral Examination</b>	<b>20</b>
<b>Teaching Colloquia</b>	<b>40</b>	<b>Overall Sum</b>	<b>100</b>

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