



# UNIVERSITY OF NIŠ

**Course Unit Descriptor**

**Faculty**

Faculty of Mechanical Engineering

## GENERAL INFORMATION

Study Program	<b>Mechanical Engineering</b>		
Study Module (if applicable)	-		
Course Title	Integrated product development		
Level of Study	<input type="checkbox"/> Bachelor	<input type="checkbox"/> Master's	<input checked="" type="checkbox"/> Doctoral
Type of Course	<input type="checkbox"/> Obligatory	<input checked="" type="checkbox"/> Elective	
Semester	<input type="checkbox"/> Autumn	<input checked="" type="checkbox"/> Spring	
Year of Study	I		
Number of ECTS Allocated	10		
Name of Lecturer/Lecturers	Dragan S. Milčić, Miloš D. Milovančević, Aleksandar V. Miltenović		
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)

To gain new knowledge with integrated approach in product development, defining product profile, gain new idea solution based on physical effect, concept, draft and elaborate design, prototyping and product verification.

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

1) Introduction. Product development – process and organisation, 2) Management of integrated product development, 3) Product life cycle. Phases of the life cycle: product planning, development, design, testing, production preparation, production, entering the market, sales, service, operation, liquidation recycling, 4) Modelling tool. Basics of modelling functions, 5) Morphology and conceptual elaboration, 6) Draft and elaborate, 7) Development and design of alternative products, 8) Structural analysis and identification of (selected) solutions

## 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	0	Written Examination	50

<b>Practical Teaching</b>	<b>0</b>	<b>Oral Examination</b>	<b>50</b>
<b>Teaching Colloquia</b>	<b>0</b>	<b>Overall Sum</b>	<b>100</b>

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