



# UNIVERSITY OF NIŠ

**Course Unit Descriptor**

**Faculty**

Faculty of Mechanical Engineering

## GENERAL INFORMATION

Study Program	Mechanical Constructions, Development and Engineering		
Study Module (if applicable)	Mechanical design, development and engineering		
Course Title	Design for manufacturing		
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 type="checkbox"/> Autumn	<input checked="" type="checkbox"/> Spring	
Year of Study	I		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Dušan S. Stamenković, Aleksandar V. Miltenović		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input checked="" 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)

Introduction to technologies applied in the manufacturing process. Understanding the basic physical principles at different manufacturing processes. Goal of the subject is to get student to know with design for manufacturability according the available production resources.

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

Variety of Technologies. Technologies of shape forming (casting, pressing of metals). Technologies of shape changes. Manufacturing technologies. Plastic deformation processing. Technologies of joining (welding, soldering, gluing). Coating technologies. Technologies of changing material properties. Design for product manufacturability. Design for manufacturability in different phases of manufacturing process. Lightweight. Reasons for lightweight.

## 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	10	Written Examination	0

<b>Practical Teaching</b>	<b>10</b>	<b>Oral Examination</b>	<b>20</b>
<b>Teaching Colloquia</b>	<b>60</b>	<b>Overall Sum</b>	<b>100</b>

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