



# 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	Tools and equipment		
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	III		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Dragoljub B.Lazarevic		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input checked="" type="checkbox"/> Laboratory work	<input 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 the theoretical and practical knowledge referring to the functioning principles, selection and designing of tools and equipment used in different technologies of machine processing.  
 To develop ability to design tools for metal forming and to prepare its technical documentation using software applications.

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

Basic definitions and applications: metal forming tools, tools for stamping and punching, deep drawing tools, metal bending tools, extrusion tools, forging tools, tools for polymer processing. Detailed functional and dimensional analysis and calculation of the dimensions of the selected parts produced by the tools considered during this course (using various software applications). Cutting tools with geometrically defined and non-defined cutting geometry. Basic definitions and applications of the equipment, its classifications, designing and working principles.

## 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>0</b>	<b>Oral Examination</b>	<b>30</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**