



# UNIVERSITY OF NIŠ

**Course Unit Descriptor****Faculty**

Faculty of Mechanical Engineering in Nis

**GENERAL INFORMATION**

Study Program	<b>Engineering management</b>
Study Module (if applicable)	-
Course Title	O.1.3-O.3 Information technology 1
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	I
Number of ECTS Allocated	6
Name of Lecturer/Lecturers	Miroslav D. Trajanovic
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 type="checkbox"/> Seminar <input type="checkbox"/> Distance learning <input type="checkbox"/> Blended learning <input type="checkbox"/> Other

**Purpose and Overview (max. 5 sentences)**

First aim of this course is to offer to the students basic knowledge in the field of ICT which they need for everyday use. Second aim is to make students familiar with programs for engineering design, calculation and simulation, document management, writing user manuals, promotional material and to estimation of manufacturing expenses and product price, based on 2D and 3D product models.

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

Course introduction. Computer systems. Software, operating systems. Hardware. Processor and memory. Input and output devices. Computer networks, protocols, network devices. Internet and Internet services. Web and web technologies.

Introduction to engineering graphics. Cad and CAE software. Basic geometrical object. Design. Building of 2D and 3D models of mechanical parts and assemblies. Automatization of technical documentation production. Tools for calculations and simulations of products. Document management systems. Tools for production of multimedia user manuals and promotional materials. Tools for fast estimation of manufacturing expenses and final price of product.

**Language of Instruction**

- Serbian (complete course)      English (complete course)       Other \_\_\_\_\_ (complete course)  
 Serbian with English mentoring       Serbian with other mentoring \_\_\_\_\_

**Assessment Methods and Criteria**

<b>Pre exam Duties</b>	<b>Points</b>	<b>Final Exam</b>	<b>Points</b>
<b>Activity During Lectures</b>	<b>10</b>	<b>Written Examination</b>	<b>40</b>
<b>Practical Teaching</b>		<b>Oral Examination</b>	
<b>Teaching Colloquia</b>	<b>50</b>	<b>Overall Sum</b>	<b>100</b>

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