

<b>Study program:</b> Industrial engineering – Mechanical engineering			
<b>Course title:</b> Manufacturing Technologies I			
<b>Professor/assistant:</b> Đorđević Milan			
<b>Type of course:</b> Compulsory			
<b>ECTS credits:</b> 7			
<b>Prerequisites:</b> none			
<b>Aims of the course:</b> Students gain knowledge about modern manufacturing technologies and selection of competitive production ways. Students acquire knowledge that enables them to make the right choice of processing parameters and become familiar with the modern processing systems, machines and devices.			
<b>Learning outcomes:</b> Students independently choose manufacturing technologies according to the process and cost-effectiveness, calculate the process parameters, and use computer applications for the optimization of technological solutions and processing parameters.			
<b>Syllabus:</b> <i>Theoretical part:</i> Introduction to manufacturing technologies; Technology of metal welding; Basics of soldering and gluing; Technologies of plastic processing; Chip formation; Technologies of sheet metal processing; Technology of surface protection; Assembly technology. Technological documentation. Computer support in production processes. <i>Practical part:</i> Auditory exercises: solving practical tasks in the area of production processes and solving problems on the examples from practice; preparing term papers.			
<b>Literature:</b> 1. Jovanović, V. Lazić: Tehnologija livenja i zavarivanja, Fakultet inženjerskih nauka u Kragujevcu, Kragujevac, 2013. 2. S. Aleksandrović: Proizvodne tehnologije (Tehnologija obrade deformisanjem), skripta, Mašinski fakultet, Kragujevac, 2011. 3. B. Nedić, M., Lazić: Proizvodne tehnologije (Obrada metala rezanjem), skripta, Mašinski fakultet, Kragujevac, 2007. 4. Lazić, M., Nekonvencionalni postupci obrade, Mašinski fakultet, Kragujevac, 1980. 5. Materijali sa predavanja i vežbi.			
<b>Total number of active classes:</b> 75		<b>Lectures:</b> 45	<b>Practical classes:</b> 30
<b>Teaching methods:</b> Lectures: interactive approach; Practical training: solving tasks, preparing term papers, solving problems, consultations.			
<b>Grading system</b> (maximum 100 points) grading scale from 5 to 10: below 51 points – student fails the exam, grade 6 from 51- 60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91- 100 points.			
<b>Pre-exam obligations:</b>	<b>Points:</b>	<b>Final exam:</b>	<b>Points:</b>
Activity during lectures	max 5	Oral exam	50
Practical training	max 5		
Written test(s)	max 20		
Term papers	max 20		
Minimum requirement for the final exam	30		