

<b>Study program / course: Mechanical engineering</b>			
<b>Type and level of study: Master academic studies</b>			
<b>Course: Production Organization and Operational Research</b>			
<b>Lecturers:</b> Tadić, P. Danijela			
<b>Status of course: Obligatory for modules M<sub>6</sub> and M7, I semester</b>			
<b>Number of ECTS: 6</b>			
<b>Precondition: None</b>			
<b>The objective of course</b> The course objective is that students master the basic knowledge from the production management, including the methods of operational research. The emphasis is especially set on the fact that in a company any type of activity can be performed, both industrial and any other production activity.			
<b>The outcome of course</b> After the passed final exam student <i>should understand</i> the principles of the production management and master the methods of operational research.			
<b>Syllabus</b>			
<b>Theoretical study</b> The course study include the following units: Introduction to production organization, Capacities planning, Linear programming, Dual task of linear programming, Production Planning and organization, Nonlinear programming, Supplies management, Planning according to materials requirement, JIT system for production planning, production scheduling.			
<b>Practical classes</b> Practical work, Individual work, Visits to companies			
<b>Recommended reading</b> 1.Milanović, D., D.Tadić and M.Misita, "management Information Systems with Examples", Megatrend University of Applied Sciences,Belgrade, 2005. (In Serbian) 2. Tadić, D. et al., "Operational Research", Facutlz for Industrial Management, ICIM Plus, Kruševac, 2005. (In Serbian)			
The number of hours of active teaching:			Other classes: 1
Theory: 2	Practical classes: 1.6	Other forms of teaching: 0.4	
<b>Methods of teaching</b>			
<b>Evaluation of knowledge</b>			
<b>Pre-final exam obligations</b>	<b>Points</b>	<b>Final exam</b>	<b>Points</b>
Activities during the classes:	<b>10</b>	Written test	<b>25</b>
Practical classes:		Oral exam	<b>5</b>
Colloquiums(s):	<b>60</b>		
Seminar(s):			