

<b>Study programmes:</b> Master studies – Mathematics				
<b>Course name:</b> M4.14 – Selected topics in optimization				
<b>Lecturers:</b> Zorica Stanimirović				
<b>Status:</b> Optional				
<b>ECTS:</b> 8				
<b>Attendance prerequisites</b> Bachelor studies – Mathematics				
<b>Course aims:</b> Extension of previously gained knowledge in optimization and mathematical modeling.				
<b>Course outcome:</b> Acquisition of more specific theoretical and practical knowledge in optimization and mathematical modeling.				
<b>Course content:</b> Additional topics from various modern courses on optimization and mathematical modeling.				
<b>Literature:</b> Different literature will be used, depending on the specific course topics. For example, literature may include the following books (additional reading material may be included): Griva, I., Nash, S.G., Sofer, A., <i>Linear and Nonlinear Optimization</i> , Siam, 2009. Nocedal, J., Wright, S.J., <i>Numerical Optimization</i> , Springer, 2006. Gendreau, M., Potvin, J.Y. (Eds.), <i>Handbook of Metaheuristics</i> , Springer, 2010. E.G., <i>Metaheuristics-from design to implementation</i> . Willey & Sons Publications, 2009.				
<b>Number of hours:</b> 5	<b>Lecures:</b> 3	<b>Excersises:</b> /	<b>Laboratory:</b> /	<b>Research:</b> 2
<b>Teaching and learning methods:</b> Frontal teaching/ Group work/ Practical work				
<b>Assessment (maximal 100 points)</b>				
<b>Course assignments</b>	<b>points</b>	<b>Final exam</b>		<b>points</b>
Exercises / Tutorials	10	Written exam		20
Colloquia	30	Oral exam		20
Seminars	20			