

<b>Study programme(s):</b> Information Technologies				
<b>Level:</b> Master				
<b>Course title:</b> Advanced Topics in Software Engineering				
<b>Lecturer:</b> Gordana Rakić				
<b>Status:</b> elective				
<b>ECTS:</b> 7				
<b>Requirements:</b> -				
<b>Learning objectives</b> The course covers recently developed areas and achievements in software engineering that are not covered in other courses of the curriculum				
<b>Learning outcomes</b> <i>Minimal:</i> At the of the course a successful student will be able to demonstrate knowledge on recently developed areas in software engineering <i>Optimal:</i> At the of the course a successful student will be able to demonstrate deep understanding of recently developed areas in software engineering and discuss possible applications on a real-life example.				
<b>Syllabus</b> <i>Theoretical instruction</i> Theoretical foundations of recent fields and achievements in software engineering. Technologies and software tools that might be used in practical applications. Principles of their usage. <i>Practical instruction</i> Using appropriate software tools on illustrative examples to exercise covered principles and to better grasp possible usages of recent developments in practice.				
<b>Literature</b> Recommended by lecturer, depending on chosen topics that will be covered during the course.				
<b>Weekly teaching load</b>				Other:
Lectures: 2	Exercises: 1	Practical Exercises: 2	Student research:	
<b>Teaching methodology</b> At lectures, classical methodology is applied, through usage of a beam-projector. During exercises, a case studies are more deeply analyzed. Some aspects and principles are practically covered by software tools. Students build on their knowledge by researching each of the topics and the knowledge is checked through the creation of papers that are presented during and at the end of the course.				
<b>Grading method (maximal number of points 100)</b>				
<b>Pre-exam obligations</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>	
Practical assignments	60	Final project with defense	40	