

<b>Study programmes:</b> Master studies - Informatics			
<b>Course name:</b> R390 - Software development 2			
<b>Lecturers:</b> Vladimir Filipović and other lecturers from Department for Computer Science and Informatics			
<b>Status:</b> Optional			
<b>ECTS:</b> 8			
<b>Attendance prerequisites:</b> -			
<b>Course aims:</b> Acquisition of general and specific knowledge about software development as complex teamwork.			
<b>Course outcome:</b> After completing the course, the student got knowledge about advanced software development techniques.			
<b>Course content:</b> Software engineering. Types of the software applications. Software engineering principles. Web-based software engineering. Software engineering etics. Sowntware processes. Plan-based and agile-based software engineering. Software specification, design and implementation. Software validation and verification. Software changes and software evolution. Agile software development. Extreme programming. Refactoring. Test automatization. Scrum. Software request engineering. Requirements and design. Use cases.			
<b>Literature:</b>			
1. Ian Sommerville: Software Enginnering, Addison-Wesley, 2011.			
2. Steve McConnell: Code Complete 2, Microsoft press, 2004.			
(teacher can some select other adequate books)			
<b>Number of hours:</b> 7	<b>Lectures:</b> 2	<b>Tutorials:</b> 3	<b>Laboratory:</b> -
<b>Research:</b> 2			
<b>Teaching and learning methods:</b> Frontal, group, individual and practical.			
<b>Assessment (maximal 100 points)</b>			
<b>Course assignments</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
Lectures	0	Written exam	-
Exercises / Tutorials	0	Oral exam	-
Colloquia	0	Written-oral exam	70
Essay / Project	30		