

<b>Study programme(s):</b> Computer Science				
<b>Level:</b> master				
<b>Course title:</b> Computer Graphics				
<b>Lecturer:</b> Dragan Mašulović				
<b>Status:</b> elective				
<b>ECTS:</b> 8				
<b>Requirements:</b> Linear Algebra and Analytic Geometry, Introduction to Computer Graphics				
<b>Learning objectives</b> In this course students shall acquire advanced knowledge of computer graphics modeling and rendering techniques in 2D and 3D using OpenGL.				
<b>Learning outcomes</b> At the end of the course a successful student will be able to model advanced graphics objects and implement advanced rendering algorithms using OpenGL.				
<b>Syllabus</b> <ul style="list-style-type: none"> <li>• Advanced 2D viewing</li> <li>• Advanced 3D viewing</li> <li>• Advanced 3D object representation and Constructive Solid Geometry</li> <li>• Advanced illumination models</li> <li>• Advanced surface-rendering methods, Ray tracing</li> </ul>				
<b>Literature</b> Hearn, Baker: "Computer Graphics with OpenGL", 3rd Ed., Pearson Education International, 2004 Foley, van Dam, Feiner, Hughes: "Computer Graphics - Principles and Practice", 2nd Ed, Addison-Wesley, 1996				
<b>Weekly teaching load</b>				
Lectures: 2	Exercises: 1	Practical Exercises: 2	Student research: 0	Other: <b>0</b>
<b>Teaching methodology</b> Blackboard demonstration, Working in small groups, Student projects				
<b>Grading method (maximal number of points 100)</b>				
<b>Pre-exam obligations</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>	
<i>Test 1</i>	<b>15</b>	<i>Student project</i>	<b>70</b>	
<i>Test 2</i>	<b>15</b>			