

Study programme(s): Computer Science				
Level: bachelor				
Course title: Introduction to Computer Graphics				
Lecturer: Dragan Mašulović				
Status: obligatory				
ECTS: 5				
Requirements: Linear Algebra and Analytic Geometry				
Learning objectives In this course students shall acquire basic knowledge of computer graphics modeling and rendering techniques in 2D and 3D using OpenGL.				
Learning outcomes At the end of the course a successful student will be able to model elementary graphics objects and invoke basic rendering algorithms using OpenGL.				
Syllabus <ul style="list-style-type: none"> • Overview of graphics systems • Graphics primitives and their attributes • Geometric transformations • 2D viewing • 3D viewing • 3D object representation • Visible-surface detection • Illumination models and surface-rendering methods 				
Literature 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				
Weekly teaching load				
Lectures: 2	Exercises : 1	Practical Exercises: 2	Student research: 0	Other: 0
Teaching methodology Blackboard lectures, Blackboard exercises, Exercises in computer lab, working in small groups				
Grading method (maximal number of points 100)				
Pre-exam obligations	points	Final exam	points	
<i>Colloquium 1</i>	30	<i>Oral exam</i>	<i>30</i>	
<i>Colloquium 2</i>	40			