

<b>Study program: Civil Engineering</b>			
<b>Course: 3D Modeling</b>			
<b>Professor/assistant: Aleksandra T. Marinković / Nemanja Petrović</b>			
<b>Status of course: elective</b>			
<b>ECTS credits: 5</b>			
<b>Pre-requisites: none</b>			
<b>Aims of the course:</b> Acquiring the basic knowledge of: computer visualization of objects in architecture and urban planning, which implies a complete process from the creation of a computer 3D model, through its further visual processing in terms of color and texture, to the postproduction of images thus obtained and the creation of a presentation of the object.			
<b>Learning outcomes:</b> The outcome of this course is the candidate's ability to use computer programs in order to: <ul style="list-style-type: none"> <li>- create a 3D model of an architectural object;</li> <li>- make further visual processing of the 3D model;</li> <li>- perform postproduction of the obtained images and make a visual presentation of the object.</li> </ul>			
<b>Syllabus:</b>			
<u>Theoretical part</u> Introduction to the course. The basics and processes of computer 3D modeling and 3D modeling programs. Process of 3D modeling in AutoCAD. Process of 3D modeling and visual processing in SketchUp. Postproduction of photos in Photoshop. Poster in architectural presentation. Model in architectural presentation. Modern technologies in the process of architectural visualization.			
<u>Practical part</u> It consists of practical work on the construction of concrete architectural visualization and presentation of the given object. Visualization and presentation of the object are performed in computer programs: AutoCAD, SketchUp and Photoshop. The complete presentation of the object is a semestral work that is printed on a 35 / 50 cm poster.			
<b>Literature:</b> <ol style="list-style-type: none"> <li>1. Alf Yarwood, <i>Uvod u AutoCAD 2010 2D i 3D projektovanje</i>, CET, Beograd, 2010.</li> <li>2. Donnie Gladfelter, <i>AutoCAD 2011 u AutoCAD LT 2011</i>, Kompjuter biblioteka, Beograd, 2011.</li> <li>3. Grupa autora, <i>Photoshop CS4 Učionica u knjizi</i>, CET, Beograd, 2009.</li> <li>4. Laurie Ulrich Fuller, Robert C. Fuller, <i>Photoshop CS3 Biblija</i>, Mikro knjiga, Beograd, 2008.</li> </ol>			
<b>Number of active classes</b>			<b>Other forms of teaching:</b>
Lectures: 3	Practical classes: 2	Laboratory classes: 0	
<b>Teaching methods:</b> Combinations interactive approach with practical problems solving.			
<b>Grading system</b> (maximum 100 points), <b>grading scale</b> from 5 to 10: below 51 points grade 5, grade 6 from 51-60 points, grade 7 from 61-70 points, grade 8 from 71-80 points, grade 9 from 81-90 points, grade 10 from 91-100 points.			
<b>Pre-commitments</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
activity during lectures and practice	5 + 5	written exam	50
colloquium(s)	20 + 20	oral exam	-
<b>Sum</b>	<b>50</b>	<b>Sum</b>	<b>50</b>