Course unit title:	**DIGITAL TOOLS II**		
Course unit code:	**APX212**		
Type of course unit:	**Compulsory**		
Level of course unit:	**Diploma Degree of Architect - Engineer**		
Year of study:	**2**		
Semester when the unit is delivered:	**4 (Spring)**		
Number of ECTS credits allocated :	**5**		
Name of lecturer(s):	**Charis Solomou**		
Learning outcomes of the course unit:	• To generate and modify detailed and complex geometry and use subtractive and additive modelling. • To be able to create complex maps and materials. • To create and control realistic images for lighting conditions that are suitable for their design proposals. • To create photorealistic images and animations (walkthroughs) and export files for post processing.		
Mode of delivery:	Face-to-face		
Prerequisites:	APX211	Co-requisites:	None
Recommended optional program components:	None		
Course contents:	This course introduces students to the basic of Digital Tools for creating and analyzing shapes and volumes giving them basic skills to develop and present their Architectural ideas. The course emphasises on the production and presentation of three-dimensional design ideas, rendering and presenting photorealistic images under natural and artificial illumination with materials and textures and demonstrate animated representations.		
Recommended and/or required reading:	Class notes		
Textbooks:	Lectures' Notebook		
References:	• Basics Architecture 03: Architectural Design, Jane Anderson, 2010 • Hybrid space new forms in digital Architecture, Zellner P., Thames & Hudson 2000. • Hybrid Space: New Forms in Digital Architecture, Zellner P., Rizzoli International Publications 1999.		
Planned learning activities and teaching	The taught part of the course is delivered to students by means of lectures in which students must complete a practical coursework. This practical coursework initially guided by the lecturer. These exercises aim to educate students and learn them to use the software commands taught in the lesson. In the second stage, students should create similar modeling		

methods:	objects using the same commands on their own. During exercises lecturer goes through each student for further assistance and solving any further questions. At the end of the course all exercises are graded.
Assessment methods and criteria:	Participation in class + Assignments 20% Midterm Exam 30% Final Coursework 50%
Language of instruction:	Greek English offered for Erasmus Students
Work placement(s):	None