



Course Code	Course Title	ECTS Credits
INT-262	CAD I	4
Department	Semester	Prerequisites
Architecture	Spring	INT-101
Type of Course	Field	Language of Instruction
Major Requirement	Interior Design	English
Level of Course	Year of Study	Lecturer
1 st Cycle	2nd	Mihalis Georgiou
Mode of Delivery	Work Placement	Co-requisites
face-to-face	N/A	None

Objectives of the Course:

The main objectives of the course are to:
Teach the basic knowledge of computer-aided design, through design projects and three-dimensional presentations
To teach students the basic capabilities of computerized design
Encourage practice in different kinds of design on the computer including: drawing on the computer fast, correcting drawing errors, revisions of the same drawing and three dimensional drawing
Teach students to produce 2d and 3d graphic files and view perspectives of 3d drawings
Encourage students to follow all the procedures necessary to prepare a drawing from initial design through final presentation – in particular layout, colours, textures, images etc

Learning Outcomes:

After completion of the course students are expected to be able to:
Comprehend the basic principles of Computer Aided Architectural Design
Draw plans sections and elevations using the CAD programme
Organise files, references layers and colours
Isolate desired information
Set up plots
Import/ export files and images
Utilise 3D CAD tools and use them to create various 3 dimensional images

Course Contents:

Introduction to CAD
Introduction to 2d design- 2d ground plans, elevation, sections using 2d commands
Design of 3d models- architecture elements (walls, slabs, roofs, columns, stairs, openings, smart symbols)
Design of 3d elements, solids, free forms, etc
Import DWG/DXF/GDN/IFCBitmap
Export 3DS files

Create plans, elevations, sections from 3d models
 Create exterior and interior isometric, perspective views, etc
 Animation, define surfaces, lighting, rendering, hidden line image, wireframe
 Create layouts
 Saving and exporting images

Learning Activities & Teaching Methods:

Lectures, Computer Demonstrations, Discussions, Presentations, Practical Exercises and Assignments

Assessment Methods:

Homework, Project, Mid-Term, Final Project, Presentation

Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Peter Szalapaj	Contemporary Architecture and the Digital Design Process	Architectural Press, Oxford U.K.	2005	
Maureen Mitton	Interior Design Visual Presentation: A Guide to Graphics, Models and Presentation Techniques 2 ND Edition	Chichester U.K.	2003	
Peter Szalapaj	CAD Principles for Architectural Design: Analytical Approaches to the Computational Representation of Architectural Form	Architectural Press, Oxford U.K.	2001	
Mirko Galli and Graudia Mühlhoff	Virtual Terragni. CAAD in Historical and Critical Research	Birkhäuser, Basel; Boston; Berlin	2000	