



Course Syllabus

Course Code	Course Title	ECTS Credits
INT-262	CAD I	4
Prerequisites	Department	Semester
INT-101	Architecture	Spring
Type of Course	Field	Language of Instruction
Required	Interior Design	English
Level of Course	Lecturer(s)	Year of Study
1 st Cycle	Michael Georgiou	2 nd
Mode of Delivery	Work Placement	Corequisites
Face-to-face	N/A	None

Course Objectives:

The main objectives of the course are to:

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- 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:

1. Comprehend the basic principles of Computer Aided Architectural Design
2. Draw plans sections and elevations using the CAD programme
3. Organise files, references layers and colours
4. Isolate desired information
5. Set up plots
6. Import/ export files and images
7. Utilise 3D CAD tools and use them to create various 3 dimensional images

Course Content:

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 and Teaching Methods:

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

Assessment Methods:

Classroom participation is assessed, as well as projects, assignments, midterm and final exams.

Recommended Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
Contemporary Architecture and the Digital Design Process	Peter Szalapaj	Architectural Press, Oxford U.K.	2005	
Interior Design Visual Presentation: A Guide to Graphics, Models and Presentation Techniques 2 ND Edition	Maureen Mitton	Chichester U.K.	2003	
CAD Principles for Architectural Design: Analytical	Peter Szalapaj	Architectural Press, Oxford U.K.	2001	

Approaches to the Computational Representation of Architectural Form				
Virtual Terragni. CAAD in Historical and Critical Research	Mirko Galli and Graudia Mühlhoff	Birkhäuser, Basel; Boston; Berlin	2000	