ANTALYA BİLİM ÜNİVERSİTESİ

DEPARTMENT OF INTERIOR ARCHITECTURE AND ENVIRONMENTAL DESIGN

Course Code	Course Name	Year/Semester	Theory	Practice	Credits	ECTS
IAED 2102	Computer Aided Technical Drawing	2025-2026/ SPRING	2	2	3	5

Level of Course: *Undergraduate*

Course Type: *Must Course*

Language of Instruction: *English*

Course Time: *Tuesday 13.30-17.30*

Office Hours: -

Course classroom: *Microsoft Teams*

Mode of Delivery: *Class Teaching, Presentation, Assignments*

Prerequisites and Co-requisites: *IAED 1102*
None

Course Coordinator: *Asst. Prof. Dr. Başak KARADUMAN*

Name of Lecturer(s): *Asst. Prof. Dr. Başak KARADUMAN*

Course Teaching Assistant: *Res. Asst. Hakan BAL*

Course Objectives: *This course is organized for developing the ability of the student to explore the world of digital modeling and to increase the capabilities of visualizing an architectural object on the base of the Theory of drawing.*

Course Description: *This course aims to teach basic digital presentation techniques with using AutoCAD computer program as a design tool. The aim is to familiarize students with visualization techniques in architectural design and to develop strategies for learning AutoCAD computer program. Furthermore, with the help of the program, it is taught to draw, to combine existing drawings and to print.*

Learning Outcomes: **Upon successful completion of the course, students will be able to:**

- *Express the ideas produced during the design process through sketches, drawings, digital representations and/or physical models.*
- *Interpreting the potentiality of the digital representation*
- *Analyzing objects by attributing them the appropriate representation by using three-dimensional space*
- *Solving basics and complex graphical problems with Autocad software.*
- *Comparing different representation methods by the digital modeling.*

Language: *The studio classes and discussions will be in English. Developing your verbal language skills will be very important in acquiring the disciplinary terminology as well as daily communication at the class.*

Text Books: -

Recommended Text Books:

1. *Hızlı ve kolay AutoCAD 2008 ve AutoCAD LT 2008 / David. Frey, Jon McFarlar; çev. ve ed. Selçuk Tüzel*
2. *Introduction to AutoCAD 2008 / Alf Yarwood (e-book)*
3. *Beginning AutoCAD 2007 / Bob McFarlane (e-book)*

For the Terminology: -

Planned Learning Activities and Teaching Method:

Learning/Teaching Method: *The expected learning outcomes for the course will be assessed through: Class hour submissions, a Midterm Project, Final Project and Class discussions and feedback.*

Assignments: *Students are required to complete and submit assignments for both in class exercise and home works according to syllabus.*

Class Participation: *Regular attendance of all enrolled classes is expected. Do not be late to the class. Attendance will be taken through your signature within the first quarter of the class; if you come later you will be considered absent. At the end of the Semester, your attendance will be reported on UBS system. Attendance is compulsory and in case of absenteeism of more than* **20% for the practice and %30 for the theory**, **the system will automatically grade you "FX".** *If you miss a class, it is your responsibility to 'make up' all work, including items discussed in class. Class contribution will be measured in terms of quality not quantity. If you need to leave early for whatever reason, you should exercise politeness and notify your professor at the commencement of the session.*

Academic integrity & plagiarism: *Academic integrity is the pursuit of scholarly activity based on the values of: honesty, trust, fairness, respect and responsibility. Practicing academic integrity means never plagiarizing or cheating, never misrepresenting yourself, never falsifying information, never deceiving or compromising the work of others. Basically this means, either intentionally or unintentionally, using the words or ideas of someone else without giving credit, it's strictly forbidden.*

Use of Artificial Intelligence (AI):
Students are permitted to use artificial intelligence (AI) tools (such as ChatGPT, Grammarly, etc.) for grammar correction and academic writing improvement throughout their work. However, AI-generated original content (e.g., analysis, paragraph writing, conceptual description, etc.) must not exceed 20% of the submitted material.
In any case where AI tools are used, students are required to include a clear declaration within the assignment/report/submission. This declaration must include the name of the AI tool/model used, the specific purpose, and a brief explanation of how it contributed to the work.
Example declaration:
"I used ChatGPT-4 for proofreading and restructuring the introductory paragraph."
Failure to declare the use of AI tools when applied will be treated as a violation of academic integrity and plagiarism policies and may result in disciplinary action.

Course Text books: *There is no specific textbook for this course.*

Key Works: *In this studio course lectures and assignments mainly focuses on Computer aided design by using AutoCAD software.*

Specific Rules:

1. **Be punctual. Punctuality is a sign of respect toward yourself and the others.**
2. *Show respect for all the people and property around you.*
3. *Be responsible for your actions and meet all expectations.*
4. *Follow directions the first time they are given.*
5. *Students should raise their hand to signal a question or to answer a question.*
6. *Students should use the Internet at school for academic purposes only.*
7. *It is forbidden to record classes with any type of device.*

Communication*: Students are encouraged to visit the professor during their Office Hours. If you cannot make it to announced office hours, please make individual arrangements via e-mail. However, do not expect the professor and the research assistant to respond at length via e-mail to questions of content, definition of terms, grading questions etc. If you have a question that requires a substantive response please set up an appointment to speak with one of us.*

Course Contents*: (Weekly Lecture Plan)

Date	Week	Chapter Topic	Take-home exercise
10.02.26	**1**	*- Introduction to AutoCAD and the layout: Creating and saving a drawing page.*	**Practice of in class works**
17.02.26	**2**	*Transitions between files and copies. Opening command bars. Program parameters and shortcuts. -Layer editing: Layer creation and customization. Changing the layer properties (colour, thickness, line type settings). Layer on- off, freezing, locking*	**Practice of in class works and online tutorials**
24.02.26	**3**	*Main Commands: Basic drawing creation commands (line, ray, construction line, multiline, polyline, rectangle, spline, ellipse, circle, arc drawing). Line spacer bar settings, command selection and options. -Page operation options: Setting and using Osnap, Grid, Ortho, Polar, LWT, Model options.*	**Ass. 1***: Main Commands and Layers* **Practice of in class works and online tutorials**

03.03.26	**4**	*-Modifications: Moving, copying, reproducing and modifying the furniture and interior drawings that are created. Move, copy, rotate, scale, stretch, mirror, offset, array, trim, extend, fillet, chamfer commands with examples of interior drawing.*	*Practice of in class works and online tutorials*
10.03.26	**5**	*-Block: Creating blocks from interior drawings. Working in created blocks. Exploding blocks. Examples of use of blocks in interior projects -Explode, join, break, flatten, blend curves, group, overkill commands. - Align, purge, regen, recover all, previous selection, oops commands*	**Ass. 2:** *Modifications and Blocks Practice of in class works and online tutorials*
17.03.26	**6**	*-Hatching: Pattern creation in interior drawings. Creating material, solid and gradient hatches. Send back bring to front commands.*	*Practice of in class works and online tutorials*
24.03.26	**7**	*-Dimensioning: Planning and dimensioning of drawings. Display of dimension settings. Multipoint, divide, boundary and revision cloud commands. Using the Text command. Properties and area. - Practise before midterm. Summary of all the works. (fillet, chamfer, arc, trim, extend, stretch, scale, ellipse)*	*Practice of in class works and online tutorials*
	8	**- MIDTERM EXAM WEEK**	
07.04.26	**9**	*Plot: Preparing drawings to print. Scale, pen, colour, paper size, adjustments. Units and limits commands.*	*Practice of in class works and online tutorials*
14.04.26	**10**	*Introduction to Photoshop Importing AutoCAD drawings to Photoshop Working with layers Adjusting line colours and qualities*	**Ass. 3:** *Plot and Photoshop Practice of in class works and online tutorials Practice of in class works and online tutorials*
21.04.26	**11**	*Additional adjustments in Photoshop Regional working*	**Ass. 4:** *Adjustments with using Photoshop Practice of in class works and online*

			tutorials
28.04.26	**12**	*Layout preparation: Editing drawing layouts. Scaling in Layout.* *General practice before Final exam*	*Practice of in class works and online tutorials*
05.05.26	**13**	*General practice before Final exam*	*Preparing for final exam*
12.05.26	**14**	*General practice before Final exam*	*Preparing for final exam*
19.05.26	**15**	**National Holiday**	
		FINAL EXAM	

*** PLEASE NOTE:** *Details of the syllabus and course schedule are subject to minor changes that will be announced in class and posted on LMS. Make-up course will be scheduled.*

Grading: *Midterm and final exam responses will be evaluated for accuracy, thoughtfulness and clarity. Assignments will be evaluated for content, quality of ide as and clarity of presentation (including both writing and graphics).*

If total assessment grade is lower than 50, student need to repeat the course.

Assessment Methods and Criteria :

METHODS	EFFECTS ON GRADING
Assignments and Participation	*20%*
Midterm Exam	*40%*
Final Exam	*40%*
	100%

ECTS Workload Table :

ACTIVITIES	NUMBER	HOUR	WORKLOAD
Course Teaching Hours	**13**	**4**	**52**
Practical	**13**	**4**	**52**
Homework	**4**	**4**	**16**
Self-study for Midterm Exam	**1**	**9**	**9**
Midterm Exam	**1**	**1**	**1**
Self-study for Final Exam	**1**	**14**	**14**
Final Exam	**1**	**1**	**1**
Total Workload	**0**	**0**	**145**
Total workload/25			**145/25**
ECTS			**5**

GRADING AND EVALUATION

The students' progress will be evaluated throughout the semester. Students' grades point lower **than 50** *will be considered as failed.*

Grade Scale:

GRADE	*MARKS*	*VALUE*
A+		
A	*95-100*	*4.00*
A-	*85-94*	*3.70*
B+	*80-84*	*3.30*
B	*75-79*	*3.00*
B-	*65-74*	*2.70*

GRADE	*MARKS*	*VALUE*
C+	*60-64*	*2.40*
C	*55-59*	*2.20*
C-	*50-54*	*1.70*
D+	*45-49*	*1.30*
D	*40-44*	*1.00*
F	*0-39*	*0.00*