

Course Code	Course Name	Year/Semester	Theory	Practice	Credits	ECTS
IAED 1101	TECHNICAL DRAWING I	2023-2024/Fall	2	2	3	4

**Level of Course:** Undergraduate

**Course Type:** Core Course

**Language of**

**Instruction:**

English

**Course Time:**

Tuesday 09.00-13.00

**Course Classroom:**

BB 34 & BB 35

**Office Hours:**

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

**Prerequisites and** Prerequisites: None

**Co-requisites:** IAED 1102 Technical Drawing II

**Course Coordinator:** Asst. Prof. Dr. M. Uğur Kahraman

**Name of Lecturer(s):** Asst. Prof. Dr. M. Uğur Kahraman

**Course Teaching** Lec. Kadir Emre Bakır

**Assistant:** Res. Asst. Ferhat Koyuncu

Res. Asst. Müge Develier

**Course Objectives:** The aim of this course is to introduce the architectural communication starting from the basic essentials of technical drawing through professional standards.

**Course Description:** This course is providing the basic drawing skills and perspective for the interior architecture and environmental design discipline through the needs of a higher level drawing for various design projects.

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

1. Students can apply the scenarios, thoughts and terms about the product and process graphically.
2. Students can show signs and symbols on the drawing.
3. By learning the basic elements of drawing, students can draw and write by freehand.
4. Students can make dimensioning by learning the term of scale in technical drawing.
5. Students learn the basic principles of projection and can draw sections and elevations of structural and environmental elements.

**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:** 1. Architectural Drafting and Design, Jefferis, A., Madsen, David A., Thomson Learning, 2001

**Recommended Text Books:**

2. Francis D.K. Ching, Architectural Graphics, Architectural Press, 1984
3. Francis D.K. Ching, Architecture, Form, Space & Order, 1979
4. David A. Davis, Theodore D. Walker, Plan Graphics, Wiley, 2000
5. Orhan Şahinler, Fehmi Kızıl, Mimarlık'ta Teknik Resim, YEM, 2004
6. John Berger, Görme Biçimleri, Metis Yayınları, 1995
7. Engineering Graphics, F.E.Giesecke, et.al., MacMillan Publ, 2004.
8. Technical Graphics Communication, G.R. Bertoline, et.al., McGraw-Hill, 2003.
9. Architectural Drafting and Design, Jefferis, A., Madsen, David A., Thomson Learning, 2001

**For the Terminology:**

**Reading Text Books:**

**Planned Learning Activities and Teaching Method:**

**Learning/Teaching Method:** The expected learning outcomes for the course will be assessed through: Studio drawings, homeworks, final exam.

**Homeworks:** Students are required to submit throughout the semester.

**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% in practice and 30% in theoretic, 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.

**Course Text books:** There is no specific textbook for this course but topics will mainly follow the chapters in the book 'Engineering Design Graphics'.

**Key Works:** In this studio course lectures and assignments mainly focuses on following course content.

**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 use the Internet at school for academic purposes only.
6. It is forbidden to record classes with any type of device.

7. Bringing necessary materials and equipment (architectural bag and T square and sketch papers etc.) to work in the classroom is obligatory.

**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
03.10.23	1	- Introduction to Technical Drawing and Its Equipment - Drawing Setup, Layout - T-Square, Set Square, Compass Degree Workout	Completion of Missing Drawings /Homework
10.10.23	2	- Letter (Right Angle)	Completion of Missing Drawings /Homework
17.10.23	3	- Line Exercises (6-Box) - Compass Exercise	Completion of Missing Drawings /Homework
24.10.23	4	- Perspective Types (One Point, Two Point, Isometric)	Completion of Missing Drawings /Homework
31.10.23	5	- Scaled Models - Orthogonal Object Drawing	Completion of Missing Drawings /Homework
07.11.23	6	- Quiz 1 - Isometric Circle	Completion of Missing Drawings /Homework
14.11.23	7	- Inlet, Outlet, Cylinder Drawing	Completion of Missing Drawings

			/Homework
	8	- Midterm	N/A
28.11.23	9	- Object Cutting (Horizontal and Vertical Cut)	Completion of Missing Drawings /Homework
05.11.23	10	- In-Class Object Drawings	Completion of Missing Drawings /Homework
12.11.23	11	- Quiz 2 - In-Class Object Drawings	Completion of Missing Drawings /Homework
19.12.23	12	- In-Class Object Drawings	Completion of Missing Drawings /Homework
26.12.23	13	- Furniture Drawing (Top, Side, Front, Perspective)	Homework
02.12.23	14	- Furniture Drawing (Top, Side, Front, Perspective)	N/A
		<b>FINAL EXAM</b>	

\* PLEASE NOTE: Details of the syllabus and course schedule are subject to minor changes that will be announced in class.

**Grading:** Midterm and final exam responses will be evaluated for accuracy, thoughtfulness and clarity. Assignments will be evaluated for content, quality of ideas and clarity of presentation (including all necessary materials). **If total assessment grade is lower than 50, student need to repeat the course.**

**Assessment Methods and Criteria :**

METHODS	EFFECTS ON GRADING
Quiz 1	10%
Midterm	30%
Quiz 2	10%
Final	50%

**ECTS Workload Table :**

ACTIVITIES	NUMBER	HOUR	WORKLOAD
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Form No:ÜY-FR-0021 Yayın Tarihi:03.05.2018 Değ.No:0 Değ. Tarihi:-



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Course Teaching Hours	12	2	24
Studio Drawings	12	2	24
Quiz 1	1	2	2
Quiz 2	1	2	2
Homework	12	2	24
Midterm Preparation	1	6	6
Midterm Exam	1	4	4
Final Preparation	1	10	10
Final exam	1	4	4
<b>Total Workload</b>	<b>0</b>	<b>0</b>	<b>100</b>
<b>Total workload/25</b>			<b>100/25</b>

**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