

Course Code	Course Name	Year/Semester	Theory	Practice	Credits	ECTS
IAED 1101	TECHNICAL DRAWING I	2020-2021/Fall	2	2	3	4

Level of Course: Undergraduate

Course Type: Core Course

Language of

Instruction: English

Course Time: Tuesday 13.30-17.30

Course Classroom: ONLINE COURSE

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

Assistant: Yaren Şekerci

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. Engage in creative design practice.
2. Use an investigative approach to design.
3. Compose concepts, scenarios, and user profiles with life style and consistent design idea, through techniques such as, bubble diagram, collage, sketching, model making etc.
4. Use basic techniques of site analysis and surveying the context.
5. Apply their conceptual approach to the design.

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. Engineering Design Graphics, J.H. Earle, Addison-Wesley Publ., 1994.Francis D.K.
2. Ching, Mimarlık ve Sanatta Yaratıcı bir Süreç: Çizim; çev. Çelen Birkan, YEM, 2003

Recommended Text Books:

1. Francis D.K. Ching, Architectural Graphics, Architectural Press, 1984
2. Francis D.K. Ching, Architecture, Form, Space & Order, 1979
3. David A. Davis, Theodore D. Walker, Plan Graphics, Wiley, 2000
4. Orhan Şahinler, Fehmi Kızıl, Mimarlık'ta Teknik Resim, YEM, 2004
5. John Berger, Görme Biçimleri, Metis Yayınları, 1995
6. Engineering Design Graphics, J.H. Earle, Addison-Wesley Publ.,1994.
7. Engineering Graphics, F.E.Giesecke, et.al., MacMillan Publ, 2004.
8. Technical Graphics Communication, G.R. Bertoline, et.al., McGraw-Hill, 2003.

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.

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
06.10.20	1	-Layout and Line Exercises -Line Weights/Types -Alphabet -Autocad Setup	Line Workout 1-2-3-4 (hand drawing)
13.10.20	2	- Geometry 2D/3D - Scale -Introduction to Autocad -Autocad New Layer -Autocad Line Settings, Plotting, Drawing Line	-Line Workout 1-2-3-4 (Autocad drawing) -Geometry Workout (hand drawing)
20.10.20	3	- Parallel Projection and views -Introduction to Autocad	Homework
27.10.20	4	- Parallel Projection and views -Introduction to Autocad	Homework
03.11.20	5	- Cut & Slice -Introduction to Autocad	Homework
10.11.20	6	- Introduction to Site Plan (1/100) -Introduction to Autocad	Homework
17.11.20	7	-Site Plan (1/100)- (IAED 1001)- Exterior Elevation -Introduction to Autocad	Homework
	8	- Midterm	N/A
01.12.20	9	- Basics of Architectural Plan (Scale & Dimension) 1/50, Architectural Plan Elements' Line Types -Understanding the plan concept through Sketch Up model -Drawing on Autocad	Homework
08.12.20	10	- Interior Plan Structural Elements Expressions	Homework



		-Drawing on Autocad	
15.12.20	11	- Introduction to Section 1/50 -Architectural Section Elements' Line Types -Understanding the section concept through Sketch Up model -Drawing on Autocad	Homework
22.12.20	12	- Basics of Section 1/50 -Drawing on Autocad	Homework
29.12.20	13	- Basics of Section 1/50 -Drawing on Autocad	Homework
05.01.21	14	- Introduction to Interior Elevation -Drawing on Autocad	N/A
FINAL EXAM			

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

IMPORTANT NOTE: (The traditional drawing will be thought by the videos instructor prepared, the digital drawing will be thought on Autocad on Microsoft Teams synchronically in the course time.)

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 40, student need to repeat the course.**

Assessment Methods and Criteria :

METHODS	EFFECTS ON GRADING
Participation	20%
Midterm	30%
Final Jury	50%

ECTS Workload Table :

ACTIVITIES	NUMBER	HOUR	WORKLOAD
Course Teaching Hours	13	2	26
Studio Drawings	13	2	26
Homework	12	2	24
Midterm Preparation	1	6	6
Midterm Exam	1	4	4
Final Preparation	1	10	10
Final exam	1	4	4



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Total Workload	0	0	100
Total workload/25			100/25

GRADING AND EVALUATION

The students' progress will be evaluated throughout the semester.

Grade Scale:

GRADE	MARKS	VALUE	GRADE	MARKS	VALUE
A+			C+	60-64	2.30
A	95-100	4.00	C	55-59	2.00
A-	85-94	3.70	C-	50-54	1.70
B+	80-84	3.30	D+	45-49	1.30
B	75-79	3.00	D	40-44	1.00
B-	65-74	2.70	F	0-39	0.00