

School of Fine Arts Design and Architecture / Architecture

2023 - 2024 Academic Year

TECHNICAL DRAWING II

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
TECHNICAL DRAWING II	MIM1224080	Spring Semester	2+2	3	5
Prerequisites Courses	TEKNİK RESİM I				
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Gizem CAN				
Name of Lecturer(s)	Assist.Prof. Hamdi ERGÜL, Lect. Necdet KETKEN, Assist.Prof. Gizem CAN, Lect. Rabiya Yeşim YÜKSEL				
Assistant(s)	Res.Asst. Bengisu Öten				
Aim	<p>Technical drawing aims to enable students to read, create, and improve detailed and accurate architectural drawings competently while developing mental skills to execute these drawings. It ensures hand and mind coordination through freehand drawing techniques. Ultimately, the goal is to empower students with the ability to produce high-quality drawings and contribute effectively to architectural projects. The Technical Drawing 2 course primarily focuses on imparting the drawing standards of practical projects to students. This course aims to provide an understanding of drawing techniques related to application drawings created in scales of 1/50 and 1/20, thereby nurturing the ability to create architectural project sets (such as plans, sections, elevations) in these scales. As a continuation of Technical Drawing 1, this course also covers the drawing and comprehension of site plans at a 1/200 scale.</p>				
Course Content	<p>This course contains; Understanding the relationship between the concept of scale and architectural project sets, Learning the necessary standards of drawing technique at a 1:50 scale and interpreting, comprehending, and drawing floor plans based on architectural projects at 1:50 scale (axis lines, structural systems, interior and exterior walls, dimensions, heights, surveys, zone names) & Feedback., Continuing the floor plan drawing within the scope of a multi-storey sample project using the 1/50 scale architectural drawing technique (interior and exterior dimensioning, elevations, screening and space naming), Learning the required standards of drawing technique in a 1:50 scale architectural project and drawing techniques for sectional drawings at 1:50 scale & Feedback., Acquiring the necessary standards of drawing technique for staircase drawings at a 1:50 scale and staircase plan drawings in architectural projects at a 1:50 scale & Feedback., Learning the necessary standards of staircase drawing technique at a 1:50 scale and the drawing techniques for staircase sections in a 1:50 scale architectural project & Feedback., Understanding the necessary standards of drawing technique for roof drawings at a 1:50 scale and roof plan drawings in architectural projects at a 1:50 scale & Feedback., Conducting the planning and sectioning of projects at a 1:50 scale., Learning the required standards of drawing technique in a 1:50 scale architectural project and drawing techniques for section drawings at a 1:50 scale & Feedback., Learning the required standards of drawing technique in a 1:50 scale architectural project and drawing techniques for facade drawings at a 1:50 scale & Feedback., Acquiring the standards of drawing technique required in a 1:20 scale architectural project and learning the techniques for kitchen plan drawings at a 1:20 scale (Sections will be drawn from window-door) & Feedback., Understanding the required standards of drawing technique in a 1:20 scale architectural project and learning the techniques for kitchen sectional drawings at a 1:20 scale (Sections will be drawn from window-door) & Feedback., Drawing site plans in accordance with the required standards of a 1:200 scale drawing technique & Feedback., Drawing site sections and elevations in accordance with the required standards of a 1:200 scale drawing technique & Feedback..</p>				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1.Students draws plans, sections, and elevations in scales of 1/50 and 1/20 for application projects.			6, 9	E	
2.Students learns and draws information regarding foundational structural elements like foundations, roofs, stairs, etc.			6, 9	E	
3.Students learn and draw information regarding fundamental structural elements such as foundations, roofs, stairs, etc.			6, 9	E	
4.They understand and utilize the concept of scale in architectural projects, grasping its significance and level of detail.			6, 9	E	
5.They comprehend the significance and placement of site plans in architectural projects.			6, 9	E	
Teaching Methods	6: Experiential Learning, 9: Lecture Method				
Assessment Methods	E: Homework				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Understanding the relationship between the concept of scale and architectural project sets				
2	Learning the necessary standards of drawing technique at a 1:50 scale and interpreting, comprehending, and drawing floor plans based on architectural projects at 1:50 scale (axis lines, structural systems, interior and exterior walls, dimensions, heights, surveys, zone names) & Feedback.				
3	Continuing the floor plan drawing within the scope of a multi-storey sample project using the 1/50 scale architectural drawing technique (interior and exterior dimensioning, elevations, screening and space naming)				
4	Learning the required standards of drawing technique in a 1:50 scale architectural project and drawing techniques for sectional drawings at 1:50 scale & Feedback.				
5	Acquiring the necessary standards of drawing technique for staircase drawings at a 1:50 scale and staircase plan drawings in architectural projects at a 1:50 scale & Feedback.				
6	Learning the necessary standards of staircase drawing technique at a 1:50 scale and the drawing techniques for staircase sections in a 1:50 scale architectural project & Feedback.				
7	Understanding the necessary standards of drawing technique for roof drawings at a 1:50 scale and roof plan drawings in architectural projects at a 1:50 scale & Feedback.				
8	Conducting the planning and sectioning of projects at a 1:50 scale.				
9	Learning the required standards of drawing technique in a 1:50 scale architectural project and drawing techniques for section drawings at a 1:50 scale & Feedback.				

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Lecture Schedule		
Sequence	Topics	Preliminary Preparation
10	Learning the required standards of drawing technique in a 1:50 scale architectural project and drawing techniques for facade drawings at a 1:50 scale & Feedback.	
11	Acquiring the standards of drawing technique required in a 1:20 scale architectural project and learning the techniques for kitchen plan drawings at a 1:20 scale (Sections will be drawn from window-door) & Feedback.	
12	Understanding the required standards of drawing technique in a 1:20 scale architectural project and learning the techniques for kitchen sectional drawings at a 1:20 scale (Sections will be drawn from window-door) & Feedback.	
13	Drawing site plans in accordance with the required standards of a 1:200 scale drawing technique & Feedback.	
14	Drawing site sections and elevations in accordance with the required standards of a 1:200 scale drawing technique & Feedback.	
Evaluation Methods		Weight(%)
Midterm Exam		50
General Exam		50

Resources
To be provided by the instructors 1.Öztepe, H. (1997). Teknik Resim I, Eğitim Matbaası, İstanbul 2.Öztepe, H. (1997). Teknik Resim II, Eğitim Matbaası, İstanbul 3.Ching, F.D.K. (1996). Architectural Graphics, Van Nostrand Reinhold, New York 4.Ching, F.D.K. (2010). Design Drawing, John Wiley & Sons, Inc. New York 5.Gürer, L. (2000). Perspektif ve Gölge, Birsen yay. İstanbul 6.Hotan, H. (2000). Mimari Perspektif ve Gölge, YEM, İstanbul 7.Onat, E. (2010). Perspektif ve Perspektifde Gölge Çizimi, Efil yay. İstanbul 8.Şahinler, O. (1990). Mimarlıkta Teknik Resim, Yay, İstanbul