ESOGU CIVIL ENGINEERING DEPARTMENT

COURSE INFORMATION FORM

Course Name	Course Code
TECHNICAL DRAWING	**151411213**

Semester	Number of Course Hours per Week		ECTS
	Theory	Practice	
1	2	0	4

Course Category (Credit)				
Basic Sciences	**Engineering Sciences**	**Design**	**General Education**	**Social**
1	1	1	1	

Course Language	Course Level	Course Type
Turkish	Undergraduate	Compulsory

Prerequisite(s) if any	
Objectives of the Course	This course focuses on teaching the rules of technical drawing, developing drawing skills and gaining the ability to explain the designed object with drawing. Also general information about civil engineering plans will be given.
Short Course Content	Drawing tools and their use, standard writing and numbers, line technique, scale concept and dimensioning, geometric drawings, orthogonal projection principles, point, line, plane and drawings in perpendicular projection, finding the intersections with projecting planes, finding the actual size. System detail drawings, sectioning, introduction of construction plan types. Basic principles of sketch.

	Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1	Uses technical drawing drawing tools in accordance with the technique.	1,2,4,9,11	1,6,11	A,D
2	Makes basic geometric drawings using appropriate methods.	1,9,11	1,6,11	A,D
3	Draws the projection of simple objects using projection planes, projection types and appearance extraction methods.	1,2,4,9	1,6,11	A,D
4	Draws the perspective of the projected part according to the rules of technical drawing.	1,2,4,9	1,6,11	A,D
5	Recognises the types of construction plans	1,2,4,5,9,11	1,6,11	A,D
6	Basic principles of sketch	1,2,4,5,11	1,6,11	A,D
7				
8				

***Teaching Methods** **1:**Expression, 2**:**Discussion, **3:**Experiment, **4:**Simulation, **5:**Question-Answer, **6:**Tutorial, **7**:Observation, **8**:Case Study, **9:**Technical Visit, **10:**Trouble/Problem Solving, **11:**Induvidual Work, **12**:Team/Group Work, **13**:Brain Storm, **14:**Project Design / Management, **15:**Report Preparation and/or Presentation

****Measuring Methods** **A:**Exam, **B:**Quiz, **C:**Oral Exam, **D:**Homework, **E:**Report, **F:**Article Examination, **G:**Presentation, **I:**Experimental Skill, **J:**Project Observation, **K**:Class Attendance; **L**:Jury Exam

Main Textbook	All resources related to Technical Drawing can be used
Supporting References	All resources related to Technical Drawing can be used
Necessary Course Material	Laptop, Datashow (data projection devices), fixed or movable white screen, blackboard for written applications.

Course Schedule	
1	Norm writing Application. Line types and application.
2	Scale concept and dimensioning,
3	Principles of vertical projection
4	Point, line, plane and drawings in vertical projection,
5	Finding interfaces with projecting planes,
6	Simple geometric drawings
7	Simple geometric drawings
8	Mid-Term Exam
9	Simple geometric drawings
10	Cross-Section drawing and finding actual size of intermediate section
11	Cross-Section drawing and finding actual size of intermediate section
12	System detail drawings, sectioning,
13	Introduction of construction plan types
14	Introduction of construction plan types
15	Basic principles of sketch
16,17	Final Exam

Calculation of Course Workload			
Activities	**Number**	**Time (Hour)**	**Total Workload (Hour)**
Course Time (number of course hours per week)	14	2	28
Classroom Studying Time (review, reinforcing, prestudy,….)	14	2	28
Homework	10	3	30
Quiz Exam			
Studying for Quiz Exam			
Oral exam			
Studying for Oral Exam			
Report (Preparation and presentation time included)			
Project (Preparation and presentation time included)			
Presentation (Preparation time included)			
Mid-Term Exam	1	1	1
Studying for Mid-Term Exam	1	15	15
Final Exam	1	1	1
Studying for Final Exam	1	15	15
		Total workload	**118**
		Total workload / 30	**3,93**
		Course ECTS Credit	**4**

Evaluation	
Activity Type	**%**
Mid-term	30
Homework	20
Bir öğe seçin.	
Bir öğe seçin.	
Final Exam	50
Total	100

RELATIONSHIP BETWEEN THE COURSE LEARNING OUTCOMES AND THE PROGRAM OUTCOMES (PO) (5: Very high, 4: High, 3: Middle, 2: Low, 1: Very low)		
NO	**PROGRAM OUTCOME**	**Contribution**
1	Adequate knowledge in mathematics, science and basic engineering subjects; ability to apply theoretical and applied knowledge in these areas to modelling and solving engineering problems	4
2	Ability to identify, define, formulate and solve complex engineering problems in civil engineering and related fields by selecting and applying appropriate analysis and modelling	3
3	Ability to design a complex system, device or product under realistic constraints and conditions by applying modern design methods in accordance with a specified objective	2
4	Ability to develop, select and use modern techniques and tools required for Civil Engineering applications and to utilise information technologies effectively	4
5	Ability to design experiments, conduct experiments, collect data, analyse and interpret results for the investigation of Civil Engineering problems	1
6	Ability to work in disciplinary and interdisciplinary teams	1
7	Effective oral and written communication skills in Turkish and the ability to use/develop knowledge of foreign languages	1
8	Awareness of the necessity of lifelong learning; the ability to access information, to follow developments in science and technology and to constantly renew oneself	1
9	Awareness of professional and ethical responsibility	5
10	Knowledge of business life practices such as project management, risk management and change management; awareness of entrepreneurship, innovation and sustainable development.	1
11	Knowledge about the effects of engineering applications on health, environment and safety in universal and social dimensions; awareness of national and international legal regulations and	4

LECTUTER(S)				
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Signature(s)				

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