



## COURSE INFORMATION FORM

Course Name	Course Code
COMPUTER AIDED DRAWING	151412211

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

Course Category (Credit)				
Basic Sciences	Engineering Sciences	Design	General Education	Social
	2	2		

Course Language	Course Level	Course Type
Turkish	Undergraduate	Compulsory

<b>Prerequisite(s) if any</b>	
<b>Objectives of the Course</b>	To be able to make civil engineering drawings and plans with computer
<b>Short Course Content</b>	Basic concepts of computer aided drawing, coordinate logic. Two and three dimensional drawing with Sketchup. Three-dimensional drawing of a building whose project is given. Building Surveying and three dimensional drawing of an existing building. Two dimensional drawing with AutoCAD. Preparation of construction plans of a building with AutoCAD.

Learning Outcomes of the Course	Contributed PO(s)	Teaching Methods *	Measuring Methods **
1 To be able to make basic drawings with Sketchup	1,2,3,4,5,7,8,9	1,6,11	A,D
2 Three-dimensional drawing of a planned building with Sketchup	1,2,3,4,5,6,7,8,9	1,6,10,11	A,D,J
3 Taking measurements of an existing building and drawing its survey in three dimensions with Sketchup	1,2,3,4,5,6,7,8,9	1,6,10,11,12	A,D,J
4 To be able to make basic drawings with AutoCAD	1,2,3,4,5,6,7,8,9,11	1,6,11	A,D
5 Drawing a two-dimensional plan of a given structure with AutoCAD	1,2,3,4,5,6,7,8,9,11	1,6,10,11	A,D,J
6 Preparation of Column Plan, Beam Plan and Foundation Plan of a building with AutoCAD	1,2,3,4,5,6,7,8,9,11	1,6,10,11	A,D,J
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:Individual 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

<b>Main Textbook</b>	Bilgiç, Ş., Sketchup All resources related to Sketchup and AutoCAD
<b>Supporting References</b>	All resources related to Sketchup and AutoCAD
<b>Necessary Course Material</b>	Laptop, Datashow (data projection devices), fixed or movable white screen, blackboard for written applications.

<b>Course Schedule</b>	
<b>1</b>	Sketchup introduction
<b>2</b>	Sketchup basic commands
<b>3</b>	Sketchup basic commands
<b>4</b>	Three-dimensional drawing with Sketchup
<b>5</b>	Survey drawing with Sketchup
<b>6</b>	Technical drawing with Sketchup
<b>7</b>	Three-dimensional drawing with Sketchup
<b>8</b>	Mid-Term Exam
<b>9</b>	AutoCAD introduction
<b>10</b>	AutoCAD basic commands
<b>11</b>	AutoCAD basic commands
<b>12</b>	Construction plans with AutoCAD
<b>13</b>	Construction plans with AutoCAD
<b>14</b>	Construction plans with AutoCAD
<b>15</b>	Construction plans with AutoCAD
<b>16,17</b>	Final Exam

<b>Calculation of Course Workload</b>			
<b>Activities</b>	<b>Number</b>	<b>Time (Hour)</b>	<b>Total Workload (Hour)</b>
Course Time (number of course hours per week)	14	2	28
Classroom Studying Time (review, reinforcing, prestudy,...)	14	2	28
Homework	8	4	32
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
<b>Total workload</b>			<b>120</b>
<b>Total workload / 30</b>			<b>4</b>
<b>Course ECTS Credit</b>			<b>4</b>

Evaluation	
<b>Activity Type</b>	<b>%</b>
Mid-term	30
Homework	20
Bir öge seçin.	
Bir öge seçin.	
<b>Final Exam</b>	50
<b>Total</b>	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	5
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	4
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	5
4	Ability to develop, select and use modern techniques and tools required for Civil Engineering applications and to utilise information technologies effectively	5
5	Ability to design experiments, conduct experiments, collect data, analyse and interpret results for the investigation of Civil Engineering problems	4
6	Ability to work in disciplinary and interdisciplinary teams	5
7	Effective oral and written communication skills in Turkish and the ability to use/develop knowledge of foreign languages	3
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	5
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.	3
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	5

LECTUTER(S)				
<b>Prepared by</b>	Prof. Dr Murat KARACASU	Assist.Prof. Dr. Şafak BİLGİÇ	Assist.Prof. Dr. Çağdaş KARA	Dr Kadir Berkhan AKALIN
<b>Signature(s)</b>				

**Date:**06.06.2024