

Identification	Subject	Engineering Drawings (6 ECTS)	
	Department	Civil Engineering	
	Program	Bachelor	
	Term	Fall, 2019	
	Instructor	Ziaaddin Zamanzadeh	
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	Phone:		
Prerequisites			
Language	English		
Compulsory/Elective	Compulsory		
Text books and course materials	<p>Course materials are prepared by the teacher.</p> <p>1. Engineering drawing practice for schools & colleges</p>		
Teaching methods	Case analysis		X
	Group discussion		
	Lab		X
	Lecture		X
	Course paper		X
	Others		
Evaluation Criteria	Methods	Date/deadlines	Percentage (%)
	Midterm Exam		25
	Case studies		
	Class Participation		5
	Quizzes		20
	Project		
	Presentation		
	Laboratory Work (Assignments)		15
	Final Exam		35
	Other		
Total		100%	
Course objectives	<ul style="list-style-type: none"> ✓ Learning architecture drawing ✓ To read and work construction drawings ✓ Sheet Planning and Dimensioning ✓ Assembly Drawing and standard Part Drawing ✓ Drawing instruments and usage 		
Learning outcomes	<p>At the end of the course, students will be able to:</p> <ul style="list-style-type: none"> ❖ Be familiar with drawings ❖ Understand the importance of Engineering Drawing ❖ Demonstrate the use of different drawing instrument ❖ Make free hand lettering and numbering ❖ Practice of dimensioning of drawing ❖ Take up different orthographic projections. ❖ Draw sectional views, development of surface of different solids. ❖ Prepare 2D engineering drawing using AutoCAD software 		
Course outline	<p>This lesson aims to teach main architectural structures</p> <ul style="list-style-type: none"> • Drawing is the language of engineers, by studying this course engineering and petroleum students will eventually be able to prepare drawings of various objects being used in technology • Engineering Drawing • Knowledge of engineering drawing instruments • Understanding and interpretation of drawings 		
Policy	<ul style="list-style-type: none"> ➤ The lessons are based on quite interactive methods. ➤ Each student should take the certain notes within their capabilities. The activity 		

	<p>of the student is noted especially.</p> <ul style="list-style-type: none"> ➤ Teacher's notes will be introduced to the students after classes. <p>Lessons are conducted in English that's why questions and their answers must be in English.</p>
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Tentative Schedule		
<i>Week</i>	Topics	Textbook/Assignments
1	Introduction to AutoCAD, Introduction to Engineering Drawing	
2	AutoCAD Interface, Workspace AutoCAD, The role of Engineering graphics in the development of science.	
3	Draw Toolbar. Constructor documents.	
4	Properties Toolbar. Practical Assignments. Drawing tools and means.	
5	Modify Toolbar. Practical Assignments. The design of drawings.	
6	Holiday.	
7	Dimensions Toolbar. Practical Assignments. The main Articles. Measurement. Annotate. Text. Formats. Scales, Lines, fonts.	
8	Midterm exam	
9	Leaders Toolbar. Annotation Toolbar. Case Analysis. Basic geometric constructions. Simple and complex connections.	
10	Layers Toolbar. Practical Assignments. Rachel curves and the rules of their establishment. Projection methods. Simple and complex cutting.	
11	Block. Groups. Local cutting. Types of axonometric projections. Axonometric projections of details.	
12	3D AutoCAD	
13	Tables. Practical Assignments. The collection, fixing and sequences of implementation of the drawing. Utilities. Clipboard. Fixing and unfixing compounds. The description of standard details.	
14	Construction drawing. Case Analysis. General information on the construction drawing. Layout of a building plan and writing measures.	
15	Reading the architectural-construction drawing.	
	Final exam	