

Identification	Subject	CIV215 Engineering Drawing 6 ECTS	
	Department	Civil Engineering	
	Program	Undergraduate	
	Term	Spring 2022	
	Instructor	Dr. Ziaaddin Zamanzadeh	
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	Classroom/hours		
	Office hours		
Prerequisites			
Language	English		
Compulsory/Elective	Compulsory		
Required textbooks and course materials	<p>Course materials are prepared by the teacher.</p> <p>1. Engineering drawing practice for schools & colleges</p>		
Course outline	<p>The aims of the syllabus are to further the ability to communicate information by graphical means, using also CAD software packages. This will be achieved through the ability to visualise and understand spatial relationships, and the competence to select and use appropriate graphical methods for representing design concepts.</p>		
Course objectives	<p>This course is an introduction to the students about the basic and standard for drawing technique, including sizing and view and projection drawing. The drawing technique is emphasized in how to draw sketch an object graphically, and projection point from surface and arch lines, and projection drawing from different point of view. It is emphasized also to read and understand the drawing, all the meaning of symbols, tolerance, lines etc. Besides that, the students is given the requirements technical drawing the mechanical engineering objects such as block, shaft, gear. At the end, the students is capable of sketch drawing the mechanical part.</p>		
Learning outcomes	<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 		
Teaching methods	Lecture		x
	Experiential exercise		x
	Assisted work		x
	Assisted lab work		x
	Others		
Evaluation	Methods	Date/deadlines	Percentage (%)
	Midterm Exam		30
	Class Participation and Attendance		5
	Quizzes		20
	Project (3D and 2D technical objects must be drawn in AutoCAD using different layers	Two days before final exam	10

	and blocks)		
	Final Exam		35
	Total		100
Policy	<ul style="list-style-type: none"> • NO CELL PHONES are allowed during lecture and lab sessions. PLEASE turn them off before lecture! (Not silent or vibrating mode) • No late assignments will be accepted without prior arrangement with the instructor for acceptable excuses. Medical and family emergency will be considered on case-by-case basis. • No late homework will be accepted. Homework is to be completed on an individual basis. Students may discuss homework with classmates, but students are responsible for your own work. If students have consulted classmates, please note the individuals name on the top of students' assignment. • Quizzes may be given unannounced throughout the term and will count as one homework. There will be no make-up quizzes. • No make-up exams. If students miss an exam, a zero score will be assigned to the missed exam. • If students should miss class due to personal emergency or medical reasons, please notify the instructor by email immediately. A doctor's note will be required for make-up work. • Students are responsible for completing the reading assigned from the textbook related to the covered topics and for checking email regularly for important information and announcements related to the course. • University policy on academic honesty concerning exams and individual work will be strictly enforced. • BE ON TIME! 		

Tentative Schedule			
Week	Dates (planned)	Subject topics	Textbook/ Assignments
1		Types of drawings, Drawing tools and papers	Chapter 1
2		Types of line, Projections, Coordinate systems	Chapter 2
3		Orthographic projections, practice in paper	Chapter 1
4		Introduction to AutoCAD, work spaces	Chapter 3
5		AutoCAD Interface, Workspace AutoCAD, The role of Engineering graphics in the development of science.	Chapter 3
6		Draw Toolbar. Constructor documents, Properties Toolbar. Practical Assignments. Drawing tools	Chapter 3
7		Midterm Exam	
8		Dimensions Toolbar. Practical Assignments, Measurement. Annotate. Text. Formats. Scales, lines, fonts	Chapter 4
9		Basic geometric constructions. Simple and complex connections	Chapter 4
10		Layers and blocks	Chapter 4
11		Examples of 2D drawings in AutoCAD	
12		3D drawing in AutoCAD	Chapter 5
13		Reading the architectural-construction drawing	Chapter 5
14		3D examples and assignments	Chapter 5
15		Project preview	
		Final Exam	