Course Number and Name		CE212-2: Civil Engineering Drawing				
Credits hours		3 Credit hours				
Contact hours		4 Contact hours; 1 for lecture, 3 for practical				
Instructor/s name/s		Mr. Afzal Husain Khan				
Textbook		Fundamentals of Engineering Drawing, 1978, French & Vierck, McGraw - Hill Publications.				
Other supplemental materials		Engineering Drawing (Third Edition), 2010, K. MORLING Elsevier Publications. McGraw-Hill. Lecture notes. Laboratory Manual.				
		Specific course information				
a. Catalog description		This course is intended to teach students the fundamental concepts in Civil Engineering Drawing dealing with different components viz. Reinforced Concrete and steel structures. Reinforced Concrete structures consists of foundation, beams, columns, slabs and steel structures consists of different steel sections, column base, Beam to beam connections, Column to beam connection, truss.				
b. Prerequisite		Engineering Drawing Eng101				
c. Required / Elective		Required				
		Specific goals for the course				
Course Learning Outcomes (CLOs)  Student outcomes that addressed by the course	Recogn compor Represe Describ Explain The foll SO1: A principl SO4: A situation solution SO5: A leadersl	By the end of this course, the student will be able to: Recognize fundamentals and study the main elements of the civil engineering structures omponents. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various types of civil engineering structures components. Represent of relationships between various civil engineering structures components. Represent of relationships between various civil engineering structures components. Represent of relationships between various civil engineerin				
		Topics to be covered				
Торіс			Number of weeks			
Reinforced Concrete and	d steel str	ructures Drawing				
Architectural Plan.			1			
Structural Plan.			2			

Footings or foundations.	3
Detailing of Beams, Columns & Footings.	4
Detailing of Slab.	5
B. Use the AutoCAD commands for drawing 2D building drawings required for different Civil Engineering applications.	
Introduction to computer aided drafting and different coordinate system	6
Drawing of building components using CAD software like	
a) Walls b) Lintels c) Doors d) Windows e) Columns f) Beams	8
f) Beams Drawing a plan of a residential building.	9
Built-up sections	10
Rolled Steel Sections	11
Beam-to-Column Connection	12
Beam-to-Beam connections	13
Column base	14

## Schedule of Assessment Tasks for Students During the Semester

Assessment task (i.e., essay, test, quizzes, group project,	Week due	Proportion of Total	
examination, speech, oral presentation, etc.)		Assessment	
Homework	2,5,8	10%	
Quizzes	3,6,9	10%	
Midterm-exam I	7	15%	
Midterm-exam II	12	15%	
Term Project	14	20%	
Final Exam	16	30%	

CLO-SO Map							
	S01	S02	S03	S04	S05	S06	S07
CLO 1	<b>V</b>						
CLO 2	V						
CLO 3	V				√		
CLO 4				V	√		
CLO 5				V			