

**Salahaddin University - Erbil**  
**College of engineering - Civil Department**

Module Name	Civil Drawing-CAD		Code	1137
Course Status	Elective	Duration:	15 week – one semester	Credit point 5
Pre-requisites	Non		Total Work Load 135 hr	Class Attendance 60 hr Self Studies 75 hr
Course Description	The course covers architectural and structural drawings. These drawings include plans, sections, elevations and detailed drawing of beams, slabs, columns, footings, retaining walls and stair cases. Steel trusses and structures will be covered. Also, sanitary services and detailing are given during the course. General principles and codes of practices that to be followed for different subjects are detailed.			
Course Objectives	The main objective of this course is : 1- To enable the student how to read and construct different types of civil drawings. 2- To explain the theory behind such drawings and the codes and specifications that to be followed in this regard. 3- To tell the student about the information and data that are necessary for successful engineer, and how to act at the site to prevent mistakes.			
Learning Outcome	By the end of the course, the student should be able to: a. Read civil/construction drawings and detailing (civil plans, profiles, street sections, etc.), and how to construct such drawings. b. Earn suitable practice experience on the implementation of civil engineering projects. c. Understanding the theory behind the drawing detailing. d. How to compare between different designs sets (architectural, structural, and MEP) and how to adopt matching between different types of sets.			
Literature & text Books	1- ACI Committee 315 “Details of Concrete Reinforcement”, ACI Detailing Manual, Farmington Hills, 2020. 2- BANGASH, M. 2003. Structural detailing in concrete: A comparative study of British, European and American			
Type of Teaching	Theory Lectures 2 hr	Tutorial 2 hr	Practical 0 hr	
Evaluation Profile	Students are required to do first midterm exam on 8 week, class room activities, quizzes, home works and final exam on week 15th. So that the final grade will be based upon the following criteria:			
	Course period efforts (out of 40%)	Midterm Exam (90 min written exam at week 8)		20 %
		Short exams (Quiz) at least 2 during the course period (one of them must befor week 8)		10 %
		assignments and home works at least 2 during the course period		6 %
		Class Room Activities, Reports and Seminars		4 %
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Course period efforts (out of 60%)	Written exam (120 min written exam week 15)		60 %	
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