

Salahaddin University - Erbil
College of engineering - Civil Department

Module Name	Computer Application			Code	1152	
Course Status	Core	Duration:	15 week – one semester	Credit point	5	
Pre-requisites	-		Total Work Load 135 hr	Class Attendance 60 hr	Self Studies 75 hr	
Course Description	<p>CAD Software</p> <p>Which will concentrate on ETABS software (Extended Three-dimensional Analysis of Building Structures).</p> <p>The course covers analysis and design of building structures.</p> <p>The program include modelling (grid system, story data, extruding, auto mesh, shell, wall, auto edge constrained, model explorer, columns, beams, slabs, footings and mat foundations), loading (dead, super dead, live, wind load special loading, and seismic loads), analysis, design, and detailing of multi-story building. The course also includes method of how to export models to SAFE software</p> <p>General principles and codes of practices that to be followed for different subjects will be discussed and detailed.</p> <p>1- At the end of the course, the students will be familiar with how to analysis and design a multi-story building and how to submit the drawings and the reports.</p>					
Course Objectives	<ul style="list-style-type: none"> - To apply selected engineering design software for the analysis and design of structures. - To enable the student how to analysis and design (columns, beams, shear walls, slabs and footings) of a multi-story building and how to submit the drawings and the report. - To explain the codes and specifications that to be followed in applying loads and load combination. 					
Learning Outcome	1. By the end of the course, the student should be able to apply selected engineering design software for the analysis and design of structures.					
Literature & text Books	1. 1-Introductory Tutorial Parts I & II ETABS@2020 or ETABS 2020Integrated Building Design Software. 2. 2- User's Guide ETABS@2020 or ETABS 2020 Integrated Building Design Software					
Type of Teaching	Theory Lectures		Tutorial	Practical		
	2 hr		-	2 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 50%)	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			10 %	
	Course period efforts (out of 50%)	Class Room Activities, Reports and Seminars			10 %	
Written exam (120 min written exam week 15)			50%			
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