

Republic of Iraq

The Ministry of Higher Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala

College: engineering

Department: mechanical

Stage: fourth

Lecturer name: Mohammed Ismael

Qualification: MSC applied mechanics

Place of work: University of Diyala

### Flowup of implementation cellipass play

Course Instructor	Mohammed Ismael Hamed				
E-mail	mihms2015@gmail.com				
Title	Computer aided engineering				
Course Coordinator	Annually				
Course Objective	Numerical solution of mechanical engineering problems by finite element method including, stress and deflection, vibration and heat transfer problems				
Course Description	One hour per week				
Textbook					
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	30%		10%		60%
General Notes					

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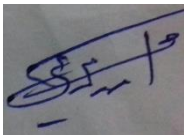
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## Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	12/10/2016	Introduction to CAE		
2	19/10/2016	Introduction to the solution procedures by softwares		
3	26/10/2016	Solution procedures sequence and practice		
4	2/11/2016	Constant CSA bars		
5	9/11/2016	Tapered bars		
6	16/11/2016	Stepped bars with different material properties		
7	23/11/2016	Exam Tutorial		
8	30/11/2016	Plane Truss		
9	7/12/2016	Plane Truss		
11	14/12/2016	Exam and tutorial		
11	21/12/2016	beams		
12	28/12/2016	beams		
13	4/1/2017	Exam and tutorial		
14	11/1/2017	review		
15	18/1/2017	Plane stress plate		
16	25/1/2017	Plane stress plate with hole		

**Half-yearbreak**

17	27/2/2017	Plane stress plate with hole		
18	6/3/2017	Planes tress of plate with filet		
19	13/3/2017	Planes tress of plate with knife edge subtracted area		
21	20/3/2017	tutorial		
21	27/3/2017	exam		
22	2/4/2017	Vibration of mass spring system		
23	9/4/2017	Vibration of multi mass and spring system		
24	16/4/2017	Vibration of beam		
25	23/4/2017	Vibration of beam carrying a mass		
26	30/4/2017	Exam and tutorial		
27	7/5/2016	Stress analysis of three dimension block		
28	14/5/2016	Stress analysis of three dimension hallow beam		
29	21/5/2016	Vibration of three dimension wing		
31	30/5/2016	Exam and tutorial		

**INSTRUCTOR Signature:****Dean Signature:**