

1. Course Name:	
Theory of Structures II	
2. Course Code:	
CIV 32202	
3. Semester / Year:	
2nd / Third	
4. Description Preparation Date:	
8-12-2025	
5. Available Attendance Forms:	
Weekly (Theory: 3 hours, Tutorial: 1 hours)	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theory: 45 Hours Tutorial: 15 hours Total: 60 hours Total Units: 5	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Maloof Mahmood Email: maloof.mahmood@muc.edu.iq	
8. Course Objectives	
Course Objectives	1. Providing the student with the necessary skills and mechanisms to deal with the latest developments in scientific and technical progress in their field of specialization. 2. Special care for outstanding students and enabling them to put forward their ideas. 3. Providing the student with high skill and the ability to solve problems and teamwork. 4. Instilling the spirit of diligence and perseverance and encouraging them to create and innovate.
9. Teaching and Learning Strategies	
Strategy	1. Introduce students to definition of Theory of Structures2. 2. Self-regulated learning (i.e., planning, monitoring and evaluating one's own learning process in the classwork. 3. Practice testing (short question answers and exams). 4. Self-explanation (i.e., explaining to oneself how new information is related to old information or explain steps taken when solving a problem or a task).

1. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	Understanding of the concepts of statically indeterminate structures by consistent deformation method	Analysis of Statically indeterminate beams by consistent deformation method	Theoretical	Homework
2	4	Understanding of the concepts displacement method.	Displacement of indeterminate beams by slope- deflection method	Theoretical	Quiz
3	4	Understanding of the concepts displacement method for frames.	Displacement of frames without side sway by slope-deflection method	Theoretical	Homework
4	4	Additional problems	Solving additional problems by consistent deformation method	Theoretical	Exam
5	4	Understanding of the concepts displacement method for frames with side sway.	Displacements of frames with side sway by slope deflection method.	Theoretical	Quiz
6	4	Additional problems	Solving additional problems by slope-deflection method	Theoretical	Homework
7	4	Understanding the principle of strain energy	Deflection of beams by using the strain energy method	Theoretical	Homework
8	4	Understanding the principle of force method .	Analysis of indeterminate beams by force method	Theoretical	Quiz
9	4	Understanding principle force method for analysis of frames.	Analysis of indeterminate frame by using the force method.	Theoretical	Homework
10	4	Understanding principle force method for analysis of Trusses	Analysis of indeterminate trusses by using the force method	Theoretical	Exam
11	4	Additional Problems	Solving additional problems for indeterminate structures by using force method	Theoretical	Quiz

12	4	Understanding the principle of moment distribution	Analysis of indeterminate beams by the method of moment distribution	Theoretical	Homework
13	4	Understanding the analysis of frames by moment distribution	Analysis of frames without side sway by using the moment distribution method.	Theoretical	Homework
14	4	Further learning of the analysis of frames by moment distribution	Analysis of frames with side sway by using the method of moment distribution	Theoretical	Quiz
15	4	Preparatory work	Preparatory week before the final exam	Theoretical	

2. Course Evaluation

The grade distribution is as follows:

Assessment: Formative 40 marks,

Final exam: Theory 60 marks.

3. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Yuan-Yu Hsieh, Elementary Theory of Structures, 2 nd ed. Prentice –Hall International, Inc. ,London
Main references (sources)	Hibbeler, R.C., “Theory of Structures”, 9 th Edition, Person, Singapore, 2013.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Course Description Form (Theory of Structures II)

