

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Structures-II		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CIV016		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	UGIII	Semester of Delivery	
Administering Department	CV101	College	Civil Engineering College
Module Leader	Dr. Nahidh Hammad Kurdi	e-mail	nahidh.kurdi@uoanabr.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Shaho Mahmoud Hama	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Structures-I	Semester	5
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	The goals of this course are to enable students to: <ol style="list-style-type: none">1. understand the basics of the force and the displacement methods of linear structural analysis in classical and matrix forms.2. apply the knowledge gathered in point 1 above to problems involving structural analysis of different structural models incorporating flexural, truss-type and mixed structures.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	By the end of successful completion of this course, the student is expected to: <ol style="list-style-type: none">1. use the consistent deformations method (a force method) to analyze statically indeterminate linearly elastic structures.2. use the slope-deflections equations (a displacement method) to analyze statically indeterminate linearly elastic structures.3. use the moment distribution method (a displacement method) to analyze statically indeterminate linearly elastic structures.4. use the matrix direct stiffness method (a matrix displacement method) to analyze statically indeterminate linearly elastic trusses and continuous beams.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following: <ol style="list-style-type: none">1. Use of the consistent deformations method (a force method) to analyze statically indeterminate linearly elastic structures.2. Use of the slope-deflections equations (a displacement method) to analyze statically indeterminate linearly elastic structures.3. Use of the moment distribution method (a displacement method) to analyze statically indeterminate linearly elastic structures.4. Use of the matrix direct stiffness method (a matrix displacement method) to analyze statically indeterminate linearly elastic trusses and continuous beams.
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Structural analysis courses require effective learning and teaching strategies to ensure students develop a strong understanding of the interrelated concepts and their practical applications. These strategies include lecture-based teaching, practical applications, problem-solving assignments, discussions, assessments and feedback,

	continuous learning, and encouraging self-directed learning. By incorporating these strategies, educators can create an engaging and comprehensive learning environment that equip the students with the knowledge, skills, and critical thinking abilities necessary for success in understanding and applying the material of the course.
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Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	4.13
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	3, 6,10,14	LO #1, 3,5, and 7
	Assignments	2	5% (5)	2, 12	LO # 4 and 7
	Projects / Lab.	-			
	Report	-			
Summative assessment	Midterm Exam	2 hr	25% (20)	7	LO # 1-7
	Final Exam	3hr	60% (60)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Analysis of statically indeterminate structures by the consistent deformations method
Week 2	Analysis of statically indeterminate structures by the consistent deformations method
Week 3	Analysis of statically indeterminate structures by the consistent deformations method
Week 4	Analysis of statically indeterminate structures by the consistent deformations method
Week 5	Analysis of statically indeterminate structures by the slope-deflection equations

Week 6	Analysis of statically indeterminate structures by the slope-deflection equations
Week 7	Analysis of statically indeterminate structures by the slope-deflection equations
Week 8	Analysis of statically indeterminate structures by the slope-deflection equations
Week 9	Analysis of statically indeterminate structures by the moment distribution method
Week 10	Analysis of statically indeterminate structures by the moment distribution method
Week 11	Analysis of statically indeterminate structures by the moment distribution method
Week 12	Analysis of statically indeterminate structures by the moment distribution method
Week 13	An introduction to the analysis of statically indeterminate structures by the matrix displacement method
Week 14	An introduction to the analysis of statically indeterminate structures by the matrix displacement method
Week 15	An introduction to the analysis of statically indeterminate structures by the matrix displacement method

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1:
Week 2	Lab 2:
Week 3	Lab 3:
Week 4	Lab 4:
Week 5	Lab 5:
Week 6	Lab 6:
Week 7	Lab 7:

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	R.C. Hibbeler, Structural Analysis, Prentice Hall, 8 th ed., 2007	Yes
Recommended Texts	Kenneth M. Leet, Chia-Ming Uang, Anne M. Gilbert, Fundamentals of Structural Analysis, McGraw-Hill, 4th ed., 2011.	Yes

Websites	https://www.uoanbar.edu.iq/Bank-Section.php
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Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
<p>Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.</p>				