## **MODULE DESCRIPTION FORM**

## نموذج وصف المادة الدراسية

Module Information							
معلومات المادة الدراسية							
Module Title	Reinfo	rced Concrete Desi	gn 3	Modu	Module Delivery		
Module Type	Elective				☑ Theory		
Module Code		CIV031			☑ Lecture		
ECTS Credits		4			□ Lab		
SWL (hr/sem)	100				☐ Tutorial ☐ Practical ☐ Seminar		
Module Level		UGI Semester of		f Deliver	Delivery 7		
Administering Dep	partment	CV101	College Of Engineering				
Module Leader	Dr. Atheer Fais	sal Al-Anbaki	e-mail	atheer.alanbaki@uoanabr.edu.iq		br.edu.iq	
Module Leader's	Acad. Title	Lecturer	Module Leader's Qualification		Ph.D.		
Module Tutor			e-mail	E-mail			
Peer Reviewer Name		Name	<b>e-mail</b> E-mail				
Scientific Committee Approval Date		01/06/2023	Version Number 1.0				

Relation with other Modules						
العلاقة مع المواد الدراسية الأخرى						
Prerequisite moduleReinforced concrete-I & Reinforced concrete-IISemester5 & 6						
Co-requisites module None Semester						

Module Aims, Learning Outcomes and Indicative Contents						
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية						
Module Aims	Students will be exposed to advanced topics in Serviceability of reinforced concrete structures.					
أهداف المادة الدراسية	Students will be exposed to advanced topics in the design of two-way slabs using advanced method					
	3. Students will understand the code provisions for seismic design.					
Module Learning Outcomes	Assess the serviceability of reinforced concrete structures under various loading.					
Outcomes	<ol> <li>Design reinforced concrete two-way slabs using advanced methods.</li> <li>Identify and design various reinforced concrete systems such as shear walls</li> </ol>					
مخرجات التعلم للمادة الدراسية	<ul><li>and stairs.</li><li>4. Understand the requirements for seismic design of reinforced concrete structures.</li></ul>					
Indicative content includes the following.						
Indicative Contents المحتويات الإرشادية						
	Learning and Teaching Strategies					
	استراتيجيات التعلم والتعليم					
Strategies	Lectures supported by modes developing material covered in lectures. These modes include theoretical lectures and problem-solving tutorials.					

Student Workload (SWL)					
	اسي للطالب	الحمل الدر			
Structured SWL (h/sem)	63	Structured S\	Structured SWL (h/w)		4.2
الحمل الدراسي المنتظم للطالب خلال الفصل		للطالب أسبوعيا	الحمل الدراسي المنتظم للطالب أسبوعيا		
Unstructured SWL (h/sem)	37	Unstructured SWL (h/w)			2.5
الحمل الدراسي غير المنتظم للطالب خلال الفصل		للطالب أسبوعيا	الحمل الدراسي غير المنتظم للطالب أ،		
Total SWL (h/sem)	100	100			
الحمل الدراسي الكلي للطالب خلال الفصل					
Module Evaluation					
تقييم المادة الدراسية					
Time/	Nu Weig	ht (Marks)	Week Due	Relevant Le	arning
mbe			TOOK DUC	Outcome	

	Quizzes	5	15% (15)	2, 4, 6, 8 ,10	All
Formative	Assignments				
assessment	Projects / Lab.				
	Report				
Summative	Midterm Exam	3 hr	25% (25)	6 and 12	All
assessment	Final Exam	3hr	60% (60)	16	All
Total assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)				
المنهاج الاسبوعي النظري				
	Material Covered			
Week 1	Serviceability (deflection)			
Week 2	Serviceability (deflection)			
Week 3	Serviceability (crack control)			
Week 4	Strip Method for Slabs			
Week 5	Strip Method for Slabs			
Week 6	Strip Method for Slabs			
Week 7	Concrete Building Systems (shear walls)			
Week 8	Concrete Building Systems (shear walls)			
Week 9	Concrete Building Systems (stairs)			
Week 10	Concrete Building Systems (stairs)			
Week 11	Yield Line Analysis for Slabs			
Week 12	Yield Line Analysis for Slabs			
Week 13	Seismic Design			
Week 14	Seismic Design			
Week 15	Review			
Week 16	Preparatory week before the final Exam			

Delivery Plan (Weekly Lab. Syllabus)					
	المنهاج الاسبوعي للمختبر				
	Material Covered				
Week 1					

Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources مصادر التعلم والتدريس				
Text Library?				
Required Texts	Arthur H. Nilson, David Darwin, Charles W. Dolan, Design of Concrete Structures, McGraw-Hill, 14th ed., 2004.	Yes		
Recommended Texts  Design of Reinforced Concrete. Jack McCormac, Fifth Edition, Wiley,2008.  Reinforced Concrete a Fundamental Approach, E.G. Nawy, Fifth Edition, Prentic		Yes		
Websites	https://www.uoanbar.edu.iq/Bank-Section.php			

Grading Scheme مخطط الدر جات						
Group	Grade	Definition				
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success Croun	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors		
Success Group (50 - 100)	<b>C</b> - Good	جيد	70 - 79	Sound work with notable errors		
(30 - 100)	<b>D</b> - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings		
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria		
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded		
(0 – 49)	<b>F</b> – Fail	راسب	(0-44)	Considerable amount of work required		

**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.