Course Description Form

	Course Description Form					
1. Course Name:						
Reinforce	Reinforced Concrete Design II					
2. Co.	2. Course Code:					
WCV-32-0						
3. Ser	meste	r / Year:				
3 rd year /2 semester						
4. De:	script	tion Preparation D	ate:			
23-10-20	23-10-2024					
5. Av	ailabl	e Attendance Form	s:			
		students				
		`	otal) / Number of U	nits (Total)		
4 h	iours/	/ 3unite				
7. Co	ourse	administrator's na	ame (mention all, i	f more than o	one name)	
Name: Qassim ail huseen						
Email:	<u>Qass</u>	<u>im.ali@uowa.edu.</u>	<u>iq</u>			
8. Co	8. Course Objectives					
Course Objective: 1- Designing reinforced concrete beams in terms of bending,						
		shear a <mark>n</mark> d torsion.				
		2- Determining the deflection in beams				
		3- Designing and analyzing of slabs				
		4- Analyzing and des	ng and designing structural columns.			
5- Being able to know the appropriate lengt			h of reinforcing	steel		
and the places where the steel is cut practically.						
9. Teaching and Learning Strategies						
Strategy Homework						
		Feedback				
Brainstorm						
10. Course Structure						
Week H	lours	Required Learning	Unit or subject	Learning	Evaluation	
		Outcomes	name	method	method	

Course Description

1 /	20	Introducing	Introduction to	Theoretical	1. Quizzes
1-5	20	students to the	Reinforced Concrete	Theoretical	2. Term exams
		basic principles of	Structures	+	3.Extracurricular
		reinforced concrete	Fundamentals of	Applied	assignments
			Reinforced concrete	Applied	
		designs, identifying			4. Reports +
		the properties of	Design	+ M	accounts of
		concrete and	Concrete and Steel	Movie Show	various projects
		reinforcing steel,	materials		
		knowing the	Flexural Beam		
		behavior of beams	Behavior		
		against the stresses	Single		
		imposed on them,	Reinforcement		
		designing a single-	beam		
		reinforced beam.			
6-10	20	Ability to design	Double	Theoretical	1. Quizzes
		Double	Reinforcement		2. Term exams
		reinforcement beam	beam	+	3.Extracurricular
		, T-beam design,	T-beam Design	Applied	assignments
		Identify beam	Shear behavior in		4. Reports +
		behavior against	beam	+	accounts of
		shear stresses,	Shear design for	Movie Show	various projects
		Beam design	beam		
		against shear stress			
11-15	20	Calculating the	Torsion behavior in	Theoretical	1. Quizzes
		torsional moment	beam		2. Term exams
		and the resulting	Torsion design for	+	3.Extracurricular
		stresses and	beam	Applied	assignments
		designing the beam	Shear-Torsion		4. Reports +
		against torsional	Design	+	accounts of
		stresses, designing	Serviceability and	Movie Show	various projects
		the beam against	Deflection		1 3
		combined stresses			
		between shear and			
		torsion, knowing			
		the effect of			
		deflection on the			
		lintel and how to			
		calculate it			
16-20	20	Study of load	Load transfer in	Theoretical	1. Quizzes
10 20	20	transfer between	structural		2. Term exams
		structural elements,	members	+	3.Extracurricular
		knowledge of the	Behavior of	Applied	assignments
		slab's behavior	Reinforced	- 1PP	4. Reports +
		against the loads	concrete slabs	+	accounts of
		imposed on it,		Movie Show	various projects
		knowledge of the	under loading	1410 VIC BIIOW	various projects
		design of a one-	One-way slab		
		way slab	design		
		way stau			

Course Description

21-25	20	Knowing the methods of designing a two-way slab	Two-way slab design	Theoretical + Applied +	1. Quizzes 2. Term exams 3.Extracurricular assignments 4. Reports + accounts of
26-30	20	Knowing the column's behavior towards the loads applied to it, identifying the methods of designing short and long structural columns	Behavior of Reinforced concrete column under loading Short column design Slender Column Design	Movie Show Theoretical + Applied + Movie Show	various projects 1. Quizzes 2. Term exams 3.Extracurricular assignments 4. Reports + accounts of various projects

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)		
Main references (sources)	-Design of Reinforced Concrete	
	Structures by Ni <mark>l</mark> son	
.~~	-ACI-Code-318M	
Recommended books and references		
(scientific journals, reports)		
Electronic References, Websites		

2017 I Indi

Course Description

