Republic of Iraq

Ministry of Higher Education and Scientific Research Supervision and Scientific Evaluation Apparatus



College: Shatt Al-Arab University
Department: Civil Engineering

Stage: 3th stage

Lecturer name: Ahmed Abdel Razzaq

Academic title: Ass. Lecturer

Course Weekly Outline

Name	Ahmed Abdel Razzaq Diwan					
E-mail address	ahmeol.2003@gmail.com					
Course name	Reinforced concrete designs-1					
Course objective	The course aims to provide the basic methods in the analysis and design of reinforced concrete structures.					
Course description	A- Cognitive objectives A1- Apply basic knowledge in understanding the tests of basic materials used in the formation of reinforced concrete. A2- Explain laboratory testing methods approved by international codes. A3- Apply analysis methods specific to beams, including the method of operational stresses in the analysis and design of beams. A4- Methods of analysis and design of beams with rectangular and special sections and methods of designing beams for shear as well as analysis and design of beams with one direction.					
References	Structural Concrete Theory and Design, By Nadim Hasson ,Akthem Aktham Al manseer,6th Edition 2015					
External sources						
Course assessment	Home work	Quizzes	Report	Project	Mid-term exam	Final exam
	10	10	10	10	10	50
General notes						

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Week No.	Theoretical	Aims		
1	Introduction to building materials science.	the tests of reinforced proved by, including allysis and		
2	General properties of building materials.	ig the test of reinfor approved ms, incluc		
3	General properties of building materials.	g the te f reinf approve as, incl analysi		
4	Mechanical properties of engineering materials.			
5	Stress-strain curves of some materials.	Hirr Hirr S S S S S S S S S S S S S S S S S S		
6	Agreement for some engineering materials.	understandi formation g methods ecific to bea		
7	Creep and factors affecting it and its curve.	in understa e formatic ting metho specific to ttresses in		
8	Fatigue and finding a final result.	and for for grant		
9	Types of bricks, their types, classification and manufacture.	in unde ne form sting m specifi		
10	Types of bricks, their types, classification and manufacture.	lge in ur the fc testing ods spec al stress		
11	Wood and its composition and preservation.	13 Ta		
12	Iron materials, their types, preparation and factors affecting them.	ve objectives basic knowledg rials used in in laboratory to al codes. analysis method		
13	The Holy Bible, its types and specifications.	e ol assi ials 1 ls 1 cc 1 cc nal		
14	Types of gypsum and the most important gypsum products.	itivilly ate ate one one one one one one one one one on		
15	Local women's bonding materials and their types.	A- Cogn A1- App basic m concrete A2- Ext internati A3- App		