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-2					
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 analysis and design of two-way reinforced concrete slabs. A2- Analyze and design different reinforced concrete columns with central and eccentric loading. A3- Apply methods for calculating the overlap distances of reinforcing steel and the span distance inside concrete beams when cutting a number of reinforcing bars.					
References	Structural Concrete Theory and Design, By Nadim Hasson ,Akthem Aktham Al manseer,6 th Edition 2015					
External sources						
Course assessment	Home work	Quizzes	Report	Project	Mid-term exam	Final exam
		10			30	60
General notes				•		

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Week No.	Theoretical	Aims
1	Introduction to building materials science.	the analysis and oncrete columns ap distances of uside concrete bars.
2	General properties of building materials.	ige in understanding the analysis and reed concrete slabs. lifferent reinforced concrete columns: loading. calculating the overlap distances of the span distance inside concrete amber of reinforcing bars.
3	General properties of building materials.	naly te c
4	Mechanical properties of engineering materials.	g the au concre rlap dis inside g bars.
5	Stress-strain curves of some materials.	g the corrupt installing by the g b
6	Agreement for some engineering materials.	erstanding rete slabs, zinforced g the over distance
7	Creep and factors affecting it and its curve.	tan e sl forc forc he c
8	Fatigue and finding a final result.	underst concrete ent reinfl ling. lating th pan dist
9	Types of bricks, their types, classification and manufacture.	in unc I conc rent r iding. ulatir span
10	Types of bricks, their types, classification and manufacture.	in dere control of the control of th
11	Wood and its composition and preservation.	ives owledge in understanding the analysis and reinforced concrete slabs. sign different reinforced concrete columns centric loading. Is for calculating the overlap distances of and the span distance inside concrete ig a number of reinforcing bars.
12	Iron materials, their types, preparation and factors affecting them.	objectives sic knowledge in un-way reinforced con and design different nd eccentric loading nethods for calculati steel and the span cutting a number of
13	The Holy Bible, its types and specifications.	e objec basic kr o-way e and de and ec metho steel
14	Types of gypsum and the most important gypsum products.	- Cognitive objectives 1- Apply basic knowledge in understanding the assign of two-way reinforced concrete slabs. 2- Analyze and design different reinforced concretith central and eccentric loading. A3- Apply methods for calculating the overlap direinforcing steel and the span distance inside beams when cutting a number of reinforcing bars
15	Local women's bonding materials and their types.	A- Co A1- A design A2- A with c A3- A reinff