

CB455 Design Of Reinforced Concrete Struc. II

COURSE INFORMATION

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laborator y	
CB354	4	7	4	2	0	3

COURSE AIM

Familiarize the students with the analysis and design of different structural elements. And Introduce the students to the fundamental elements, which make up the design of different structural elements.

COURSE WEEKLY CONTENTS

- 1 Sections subjected to combined shear and torsion.
- 2 Design of stairs.
- 3 One-/two-way hollow block slabs (ribbed slabs)
- 4 One-/two-way hollow block slabs (ribbed slabs) (cont.) - Design of paneled beam.
- 5 Design of paneled beam (cont.) - Sections subjected to combined bending and normal force.
- 6 Sections subjected to combined bending and normal force.
- 7 Sections subjected to combined bending and normal force (cont.) - Design of slender columns. + Midterm Exam
- 8 Design of slender columns (cont.).
- 9 Design of frames.
- 10 Design of frames (cont.) - Design of flat slab.
- 11 Design of flat slab.
- 12 Design of flat slab (cont.) - Design of water tanks.
- 13 Design of water tanks.
- 14 Design of water tanks (cont.).
- 15 Introduction to design of Pre-stressed structures.

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20 Midterm	←	1 0	M A R K S		→	30
To be freely distributed among possible assessments							
8 to 12	←		2 0	M A R K S		→	20
13 to 15	←		1 0	M A R K S		→	10
16 or 17	40 Final						40
Total	Exams	Assign.	Quizzes	Reports	Present.	Lab.	100

REFERENCES

- Textbook** Design of Reinforced Concrete Structures "Volume 2", Mashhour Ghoneim, and Mahmoud El-mihilmy, Al-Balagh, 3rd Edition 2012.
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- Other** Egyptian Code of Practice for Reinforced Concrete Structures, 2007.
Reinforced Concrete Design, W.H.Moslay, R.Hulse, J.H.Bungey, McMillan, 1999.
Reinforced Concrete Design, C.K.Wang and C.G.Salmon, Harpor Row, 7th Edition 2006.