CB558 Special Topics In Reinforced Concrete St

COURSE INFORMATION Academic Year & Level **Teaching Methods Prerequisites** Laborator Credit Hrs. Lecture Tutorial Year Semester y CB455 5 9 - 10 4 2 0 3 COURSE AIM This course aims to provide an introduction for the students to the design of special structures for transportation as bridges, as well as special structures for workshops in factories or halls in administration buildings or theatres. In addition to the design of special structures for water or grain storage. COURSE WEEKLY CONTENTS Design of north light (saw-tooth) structures (1,2). 1 2 Design of north light (saw-tooth) structures (1,2), continued. 3 Design of shell roof and dome Structures (1,2). 4 Design of shell roof and dome Structures (1,2), continued. Design of arched frame structures. 5 6 Design of elevated circular tanks (1,2). 7 Design of elevated circular tanks (1,2), continued. Midterm Exam 8 Design of ground tanks (1,2). 9 Design of ground tanks (1,2), continued. Design of silos structures (1,2). 10 Design of silos structures (1,2), continued. 11 Design of Pre-stressed Bridges (Working stress method/ Ultimate strength 12 method) (1,2,3). Design of Pre-stressed Bridges (Working stress method/ Ultimate strength 13 method) Design of Pre-stressed Bridges (Working stress method/ Ultimate strength 14 method) (1,2,3), continued.

Design of Pre-stressed Bridges (Working stress method/ Ultimate strength method) (1,2,3), continued.

Weeks	Exams		Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20	Midterm	← To	1 (be freely distril	D MAI	к s possible assessn	→ nents	30
8 to 12	÷			2 (D MAI	RKS	\rightarrow	20
13 to 15	÷			1 (D MAI	RKS	\rightarrow	10
16 or 17	40	Final						40
Total		Exams	Assign.	Quizzes	Reports	Present.	Lab.	100

STUDENT GRADING & ASSESSMENT

REFERENCES

Textbook	Concrete Structures: Stresses and Deformations, Ghali, R. Favre, and M.				
	Elbadry, Taylor and Francis, 4th Edition, 2012.				
Other	Design of Reinforced Prestressed Concrete: Analysis and Design, A.E.				
	Naaman, McGraw-Hill, 3rd Edition, 2012.				