CB343 Structural Analysis II

COURSE INFORMATION

	Academic	Year & Level	Теа			
Prerequisites	Year	Semester	Lecture	Tutorial	Laborator y	Credit Hrs.
CB242	3	5	4	2	0	3
COURSE AIM						

The course aims is to teach students the methods of the structural analysis of different statically indeterminate structural forms.

COURSE WEEKLY CONTENTS

- Introduction to statically indeterminate structures. Methods of structural analysis of statically indeterminate structures.
- 2 Method of consistent deformations (1, 2), Worked examples.
- **3** Method of consistent deformations (1, 2), Worked examples. continue
- 4 Method of three- moment equation for continuous beams, Worked examples.
- Virtual work method for the analysis of statically indeterminate structures,
 Worked examples (1, 2).
- 6 Virtual work method for the analysis of statically indeterminate structures,
- Worked examples (1, 2) continue
- 7 Midterm Exam
- 8 Slope-deflection method, Worked examples.
- 9 Slope-deflection method, Worked examples. continue
- **10** Moment Distribution method, Worked examples.
- **11** Stiffness method, Worked examples.
- 12 Stiffness method, Worked examples (Continue) and 12th week Assesment.
- **13** Computer validation (1, 2).
- **14** Computer validation (1, 2). continue
- **15** Week No.15; Computer validation (1, 2). continue
- STUDENT GRADING & ASSESSMENT

Weeks	Exams		Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20	Midterm	← To	1 be freely distri	D M A buted among	ккs possible assessr	\rightarrow ments	30
8 to 12	÷			2	D MA	RKS	\rightarrow	20
13 to 15	÷			1	D MA	RKS	\rightarrow	10
16 or 17	40	Final						40
Total		Exams	Assign.	Quizzes	Reports	Present.	Lab.	100
REFERENCES								

Textbook	Structural Analysis, Aslam Kassimali, Cengage Learning, 5th Edition, 2015.
Other	Fundamental of Structural Analysis, W.J.Spencer, Macmillan Education LTD,
	USA, 1991.
	Theory of Structures, RAMAMRUTHAN S. Publisher: Dh anpat Rai and Sons,
	1993.