

CB557 Inspection, Maintenance & Repair Of Str.

COURSE INFORMATION

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laborator y	
CB444 CB455	5	9 – 10	2	2	0	3

COURSE AIM

The aim of the course is to introduce the subjects of maintenance, inspection, and repair of structures to under graduate students. The course introduces an overview of maintenance, Causes and agents of deterioration, Diagnosis and investigation techniques, Diagnosis and investigation techniques, Foundations repair, concrete defects, Repair of concrete structure, Site visit for a repair project, Other materials investigation and repair.

COURSE WEEKLY CONTENTS

- 1 Overview of maintenance.
- 2 Overview of maintenance, Continued.
- 3 Causes and agents of deterioration.
- 4 Causes and agents of deterioration, continued.
- 5 Diagnosis and investigation techniques.
- 6 Diagnosis and investigation techniques, continued.
- 7 Foundations repair. + Midterm Exam
- 8 Foundations repair, continued.
- 9 Foundations repair, continued.
- 10 Concrete defects.
- 11 Repair of concrete structure.
- 12 Repair of concrete structure, continued.
- 13 Repair of concrete structure, continued.
- 14 Site visit for a repair project.
- 15 Other materials investigation and repair.

STUDENT GRADING & ASSESSMENT

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

REFERENCES

Textbook	Building Maintenance Technology, L.H.Son, and G.C.S.Yuen, Macmillan Press, 1993.
Other	Repair and Protection of Concrete Structures, N.P. Mailvaganam, CRC Press, USA, 1992.