CB556 Concrete Technology

COURSE INFORMATION

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laboratory	
CB352	5	9 – 10	2	2	0	3

COURSE AIM

The aim of the course is to emphasize the importance of concrete technology in construction.

COURSE WEEKLY CONTENTS

1 Concrete workability and consistency.
2 Concrete manufacturing.
3 Mixing, transporting and casting of concrete.
4 Properties of hardened concrete.
5 Compacting and curing of concrete.
6 Expansion joints.
7 Concrete admixtures. + Midterm Exam
8 Concrete durability (1.2.3).
9 Concrete durability (1.2.3).continued
10 Concrete durability (1.2.3).continued
11 Design of concrete mixtures.
12 Evaluation of concrete strength.
13 Ready mix concrete.
14 Hot weather concreting.
15 Hot weather concreting. continued

STUDENT GRADING & ASSESSMENT

Weeks	Exams	Assign.	Quizzes	Reports	Present.	Lab.	Total
1 to 7	20 Midterm	←	10 MARKS To be freely distributed among possible assessments			→	30
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 Properties of concrete, M Neville, longman scientific and technical, 4th Edition, 1995.

Other Concrete: Structure, properties, and Materials by P.K.Mehta and P.J. Monterio, 2nd Edition, Prentice-Hall, USA, 1993.
Manual for concrete practice by American Concrete institute, Parts 1-5, USA, 2002.
Concrete by M.Sidney and Y.Francis, Printice-Hall, USA. 2nd Edition, 2003.