

**CB523 Methods & Equipment For Construction I**

**COURSE INFORMATION**

Prerequisites	Academic Year & Level		Teaching Methods			Credit Hrs.
	Year	Semester	Lecture	Tutorial	Laborator y	
CB322	5	9	2	2	0	3

**COURSE AIM**

The aim of this course is at introducing the student to the knowledge of construction engineering in the area of building construction

**COURSE WEEKLY CONTENTS**

- 1 Loads on formwork
- 2 Properties of materials used in formwork
- 3 Strength and rigidity of forming systems
- 4 Design of horizontal formwork (1)
- 5 Design of horizontal formwork (2)
- 6 Design of vertical formwork
- 7 Batching and mixing concrete + Midterm Exam
- 8 Transporting concrete
- 9 Placing and compacting concrete
- 10 Dewatering systems
- 11 WellPoint & deep wells system
- 12 Cases of studies
- 13 Diaphragm walls
- 14 Cranes
- 15 Health and safety

**STUDENT GRADING & ASSESSMENT**

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

**REFERENCES**

**Textbook** Construction Methods and Management, Stephens W. Nunnally, Prentice Hall, 8th Edition, 2010.

**Other** Principles and Practices of Commercial Construction, Cameron K. Andres, Ronald C. Smith, Latest Edition.  
Construction Methods and Planning, Illingworth, J.R., Publisher: Spon Press, UK, Latest Edition.