King Fahd University of Petroleum & Minerals
College of Environmental Design
Construction Engineering & Management Department

Cost Estimation
CEM 511 (061)
SYLLABUS

Instructor: Dr. Mohammed AlKhalil
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Synopsis:

Reliable cost estimation is critical to project success for the contractor as well as for the owner. The estimate serves several functions depending on the stage of the project. This course will cover the **detailed cost estimating** method, which is most widely used by contractors for the purpose of bid preparation. It will also cover **preliminary estimating methods** that are generally prepared at various stages of project scope definition. Application of computer in cost estimating will be demonstrated through the use of Timberline Estimating Software.

Reference Book:

Pratt, David; "Fundamentals of Construction Cost Estimating"; 2004, Delmar Learning, Division of Thomson Learning Inc.

Grade Structure:

Home-work	20%
Project	10%
2 Exams	45%
Final Exam	25%

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Course Outline & Schedule

Date	Topic
10–12 Sep	Introduction
17	The Estimating Process & Preliminary Procedures
19	Measuring Quantities Generally
24	Measuring Site Work
26	Measuring Concrete Work
01 Oct	Measuring Masonry Work
03	Measuring Carpentry & Miscellaneous Items
08	Exam 1
10	Pricing Generally
11–28	Eid Al Fitr Break
29–31	Computer Application
05 Nov	Pricing Construction Equipment
07	Pricing Excavation & Backfill
12	Pricing Concrete Work
14	Pricing Masonry, Carpentry, & Finishes Work
19–21	Computer Application
26	Pricing Subcontractor's Work
28	Pricing General Expenses
03Dec	Closing the Bid
05	Exam 2
10–19	Preliminary Cost Estimating Methods
20 Dec–06 Jan	Eid Al Adha Break
07–14	Project Presentation
16	Review
27	Final Exam