

Course Descriptor

< COEN587 Cost Estimating >

ACADEMIC YEAR	2020-21	SEMESTER	
Course Code	COEN587	Course Title	Cost Estimating
Credit hours	3	Level of study	Undergraduate
College / Centre	COE	Department	CVEN
Co-requisites	NIL	Pre-requisites	NIL

1. COURSE OUTLINE

[This course is the study of the fundamentals of cost estimating which include basic skills, knowledge, and tools needed to bid and budget construction projects. Utilization of cost estimating software is introduced in lab exercises.]

2. AIMS

[This course prepares students with the basic knowledge and skills of cost estimating so that they can be applied efficiently in managing various types of construction projects.]

3. LEARNING OUTCOMES, TEACHING, LEARNING and ASSESSMENT METHODS

Learning Outcomes (Definitive)	Teaching and Learning methods (Indicative)	Assessment (Indicative)
1. 1. comprehend construction documents	Lecturer, Presentation	Assignment, Midterms, and Final Exam
2. 2. perform quantity takeoff for major CSI divisions	Lecturer, Presentation	Assignment, Midterms, and Final Exam
3. 3. price work items based on a reliable source	Lecturer, Presentation	Assignment, Midterms, and Final Exam
4. 4. assemble a complete bid package	Lecturer, Presentation	Assignment, Midterms, and Final Exam
5. be proficient with Sage Estimating Extended software	Lecturer, Presentation	Assignment, Midterms, and Final Exam

4. ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Assignments	10%
Mid-term Examination	40%
Final Examination	50%
TOTAL	100%



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5. ACHIEVING A PASS

Students will achieve 04 credit hours for this course by passing **ALL** of the course assessments *[alternatively, list the compulsory pass assessments*]* and achieving a **minimum overall score of 50%**

NB *Ensure that ALL learning outcomes are taken into account

6. COURSE CONTENT (Indicative)		
WEEK	LECTURE TOPIC	TIME (HOURS)
1,2	Introduction to estimating	6
3,4	Estimating process	6
5	Measuring quantities	6
6	Takeoffs: site-work, concrete, masonry steel, and misc. items. Software-1: Estimation Software - Review only	3
7	Pricing of labor, equipment, site-work, concrete, masonry, steel Software-2: Excel	3
8,9	RS Means cost data	6
10, 11	Pricing subcontractor work	6
12, 13	Overhead & profit	6
14	Closing the bid	3
15	Change orders	3
	TOTAL HOURS	45
1 - 15	Plus RECOMMENDED INDEPENDENT STUDY HOURS	90
	TOTAL COURSE HOURS	135

7. RECOMMENDED READING

Core text/s:



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< *Fundamentals of Construction Estimating (2011)* by David Pratt, 3rd Edition, Delmar Cengage Learning

Latest Building Construction Cost Data by RS Means (Required)

Estimating Fundamentals, Authorized training Curriculum, Sage Software, 15195 NW Greenbrier Parkway, Beaverton, (Required) >

Library + online resources: