



Course Specification

(Bachelor)

Course Title: **Financial Management in Construction Projects**

Course Code: **COE4413**

Program: **Bachelor of Construction Engineering**

Department: **Civil and Environmental Engineering Department**

College: **College of Engineering and Computing in Al-Qunfudhah**

Institution: **Umm Al-Qura University**

Version: **4th**

Last Revision Date: **15th January 2025**



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A. General information about the course:

1. Course Identification

1. Credit hours: (3)

2. Course type

A. University College Department Track Others

B. Required Elective

3. Level/year at which this course is offered: (Level 10/year 5)

4. Course General Description:

The "Financial Management in Construction Management" course introduces students to the financial principles and practices used in the construction industry. This course is designed to equip students with the knowledge and skills needed to effectively manage financial resources and make informed financial decisions that are critical to the success of construction projects. It covers a range of topics from budget planning and financial reporting to risk management and investment analysis, with a specific focus on the applications within the construction sector.

5. Pre-requirements for this course (if any):

Project Cost Estimating (COE4403)

6. Co-requisites for this course (if any):

7. Course Main Objective(s):

1. Understanding Financial Principles: To provide students with a fundamental understanding of financial principles and concepts as they relate specifically to construction management.
2. Budget Management: Enable students to develop skills in creating, managing, and analyzing construction project budgets.
3. Financial Decision-Making: Equip students with the tools to make sound financial decisions, considering the unique challenges and risks of the construction industry.
4. Risk Assessment: Teach students to identify, assess, and mitigate financial risks associated with construction projects.



5. Cost Control: Develop students' ability to implement cost control strategies to ensure projects are completed within their financial constraints.
6. Resource Allocation: Guide students in effective resource allocation to maximize efficiency and profitability in construction projects.
7. Investment Analysis: Prepare students to evaluate investment opportunities and financial proposals pertinent to construction management.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3 credit hours	100%
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	45
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify)	
Total		45

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			



1.1	Recall, define, and describe construction engineering concepts, principles, theories, and procedures.	K1	Interactive learning Self-directed learning	Midterm Exam, Final Exam, Homework, and Quizes
1.2	Exhibit a comprehensive understanding of specialized knowledge by analyzing and interpreting current advancements in innovative construction technologies and illustrating comprehension of research methodologies and inquiry techniques relevant to investigating complex construction engineering problems.	K3	Interactive learning Self-directed learning	Midterm Exam, Final Exam, Homework, and Quizes
2.0	Skills			
2.1	Apply engineering and scientific principles to identify, analyze, and solve complex construction engineering problems.	S1	Interactive learning Self-directed learning	Midterm Exam, Final Exam, Homework, and Quizes
2.2	Utilize critical thinking skills to analyze complex construction		Interactive learning Self-directed learning	Midterm Exam, Final Exam, Homework, and Quizes



	engineering issues and develop innovative, context-appropriate solutions that address current challenges in the field.	S2		
...				
3.0	Values, autonomy, and responsibility			
3.1	Demonstrate responsibility and ethical practices in evaluating the societal, environmental, and economic impacts of construction engineering decisions.	V1	Interactive learning Self-directed learning	Midterm Exam, Final Exam, Homework, and Quizes
3.2				
...				

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to Financial Management in Construction	3
2.	Budget Planning and Control	6
3.	Construction Accounting and Financial Reporting	6
4.	Cost Estimation and Pricing	3
5.	Project Financing and Cash Flow Management	6
6.	Mid Term Exam	3
7.	Risk Management and Insurance in Construction	6
8.	Contractual and Legal Financial Implications	6
9.	Investment Analysis and Feasibility Studies	3
10.	Strategic Financial Decision-Making	3
Total		45



D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	4, 6, 12	15%
2.	Homework	3, 9, 13	15%
3.	Midterm Exam	8	30%
4.	Final Exam	16 or 17	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Peterson, S.J., 2021. <i>Construction Accounting and Financial Management</i> . 3rd ed. Boston: Pearson.
Supportive References	Ryan, L., 2020. <i>Practical Construction Accounting and Financial Management</i> . West Lafayette: Purdue University Press.
Electronic Materials	
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom with minimum capacity of 30 students
Technology equipment (projector, smart board, software)	Projector, whiteboard
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Lecturer / Students	Direct / Indirect (Grades, surveys)
Effectiveness of Students assessment	Faculty	Indirect (Barriers to understand successor course)
Quality of learning resources	Lecturer	Direct (Grades)





Assessment Areas/Issues	Assessor	Assessment Methods
The extent to which CLOs have been achieved	Lecturer / Faculty	Direct (Grades)
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	Civil and Environmental Engineering Department Council in Al-Qunfudah
REFERENCE NO.	The fifteenth session of the academic year 1446
DATE	01/05/2025

