Course Specification

(Bachelor)

Course Title:	Contracts and Specifications
Course Code:	COE4407
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: (2)					
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:					
This course provides an in-depth exploration of the diverse aspects of construction contracts and specifications, fundamental components in the field of construction engineering. It focuses on understanding the legal, technical, and managerial elements that influence contract formulation and implementation in construction projects. Students will learn how these documents serve as critical tools, defining the responsibilities, rights, and relationships between all parties involved. By examining real-world scenarios and case studies, students will gain practical insights into overcoming common challenges faced in construction contracting.					
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. To develop a comprehensive understanding of the legal principles underpinning construction contracts. 2. To equip students with skills to draft, interpret, and manage construction contracts effectively. 3. To explore the purpose and development process of construction specifications. 4. To analyze the roles and responsibilities of parties involved in construction projects through contract terms. 5. To address conflict resolution and negotiation strategies in contract disputes.					

6. To understand the implications of contract law in relation to construction project management.
7. To assess risk management strategies employed in construction contracts.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	**2 credit hours**	**100%**
2	E-learning		
3	Hybrid • Traditional classroom • E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	**30**
2.	**Laboratory/Studio**	
3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	
Total		**30**

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**

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
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				
...				
3.0	**Values, autonomy, and responsibility**			
3.1	Plan and achieve academic and professional self-development in	V2	Interactive learning Self-directed learning	Midterm Exam, Final Exam, Homework, and Quizes

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
	construction engineering by assessing personal learning and performance, making evidence-based decisions, and actively contributing to the advancement of the field and its societal impact.			
3.2				
...				

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to Construction Contracts	2
2.	Legal Principles of Construction Contracts	
3.	Drafting and Negotiating Construction Contract	6
4.	Construction Specifications	6
5.	Roles and Responsibilities	2
6.	Mid Term Exam	2
7.	Contract Management and Administration	2
8.	Conflict Resolution and Dispute Avoidance	2
9.	Risk Management in Construction Contracts	2
10.	Ethical and Professional Considerations	2
Total		30

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%

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
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	Hinze, J., 2021. *Construction Contracts*. 4th ed. New York: McGraw-Hill.
Supportive References	Sweet, J., Schneier, M.M. and Sweet, J.J., 2020. *Construction Law for Design Professionals, Construction Managers, and Contractors*. 6th ed. Boston: Cengage Learning.
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)
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**