Course Specification
(Bachelor)

Course Title:	Special Topics in Water Engineering
Course Code:	CE 4705
Program:	Bachelor of Science in Civil Engineering
Department:	Civil Engineering Department
College:	College of Engineering and Architecture
Institution:	Umm Al Qura University
Version:	1
Last Revision Date:	31 January 2025

Table of Contents

A. General information about the course: 3

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods 4

C. Course Content 5

D. Students Assessment Activities 5

E. Learning Resources and Facilities 5

F. Assessment of Course Quality 6

G. Specification Approval 6

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 9,10 / 5th year)					
4. Course General Description:					
This course covers advanced selected topics in water engineering in accordance with the needs of the student and the guidance of the supervisor.					
5. Pre-requirements for this course (if any)**:**					
Hydraulics					
6. Co-requisites for this course (if any)**:**					
Not Applicable					
7. Course Main Objective(s):					
To give the student the opportunity to attend one of the special water engineering topics that he might encounter during his studying. The topic should take into consideration the student's background, interests, and the requirements for his research project.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45	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**	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	It depends on the topic to be selected by the supervisor and it should follow the program Learning Outcomes, Teaching Strategies and Assessment Methods.		• Lectures • Training tutorials	• Assignments • Quizzes • Written exams
2.0	**Skills**			
2.1	It depends on the topic to be selected by the supervisor and it should follow the program Learning Outcomes, Teaching Strategies and Assessment Methods.		• Lectures • Training tutorials • Small group work	• Assignments • Quizzes • Written exams • Term project
3.0	**Values, autonomy, and responsibility**			
3.1	It depends on the topic to be selected by the supervisor and it should follow the		• Lectures • Training tutorials	• Written exams • Term project

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
	program Learning Outcomes, Teaching Strategies and Assessment Methods.		• Small group work	

C. Course Content

No	List of Topics	Contact Hours
1.	To be specified by the supervisor and depends on the topic.	**45**
	Total	**45**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	**Quizzes**	Monthly	10%
2.	**Assignments**	Weekly	10%
3.	**Mid-Term Exam**	7th week	20%
4.	**Term Project**	12	10%
5.	**Final-Term Exam**	15/16	50%

*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	To be specified by the supervisor and depends on the topic.
Supportive References	To be specified by the supervisor and depends on the topic.
Electronic Materials	To be specified by the supervisor and depends on the topic.
Other Learning Materials	To be specified by the supervisor and depends on the topic.

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms for lectures and exams for 30 students during the scheduled class hours.
Technology equipment (projector, smart board, software)	To be specified by the supervisor and depends about the topic.
Other equipment (depending on the nature of the specialty)	To be specified by the supervisor and depends about the topic.

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	• Students • Instructor • Program leader	• Indirect • Direct • Direct
Effectiveness of Students assessment	• Independent member	• Direct
Quality of learning resources	• Students • Instructor	• Indirect • Indirect
The extent to which CLOs have been achieved	• Instructor • Students • Program leader	• Direct • Indirect • Direct
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**CIVIL ENGINEERING COUNCIL**
REFERENCE NO.	**THE FIFTEENTH SESSION OF THE ACADEMIC YEAR 1446**
DATE	**30 APRIL 2025**

