

Ministry of Higher Education and Scientific Research
Supervision and Scientific Evaluation Authority
Department of Quality Assurance and Academic Accreditation

Academic Program Description Form for Colleges and Institutes Academic Year

University: Shatt Al-Arab
College/Institute: Engineering
Scientific Department: Civil
Date of Form Completion: 01/09/2025



Signature

Name of Head of Department:

Lecturer Nabeel Najm Abdullah



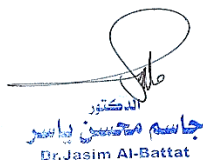
Signature

Name of Scientific Assistant

Dr. Jawad Kadhim

Reviewed by:
Quality Assurance and University Performance Division
Name of Division Director: Dr. Jasem Mohsen Yasser

Signature:



الدكتور
جاسم محمد باقر
Dr. Jasim Al-Battat



أ.م.د. احسان قاسم محمد
عميد كلية الهندسة

Dean's Approval

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Construction Method		Module Delivery
Module Type	Core		☐ Theory ☐ Lecture ☐ Lab ☐ Tutorial ☐ Practical ☐ Seminar
Module Code	CE417		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	4	Semester of Delivery	2
Administering Department	Type Dept. Code	College	Type College Code
Module Leader		e-mail	
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	1\9\2025	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Concrete design, Mathematics, Survey	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Aims أهداف المادة الدراسية	Introduction to the various construction techniques, practices, and equipment needed for different types of construction activities. It also leads the student through the steps of creating a detailed building estimate utilizing construction documents. Direct costs are generated by performing quantity take-offs and pricing with historical data, labor, and productivity rates. Students analyze subcontractor bids, generate indirect costs, and apply project margins to complete a building estimate.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	When the student complete studying this course, he should be able to: 1. Determine the allowable axial load capacity of single pile and pile group. 2. Estimation of pile load in a pile group. 3. Determine the stability of earth structures.
Indicative Contents المحتويات الإرشادية	Understanding of general concepts of methods of construction and/ or project management, • Ability in: 1. Planning and scheduling of construction projects, 2. Estimating construction projects. 3. Participating in taking-over, final measurement, and acceptance of construction. 4. projects, selection of construction equipment properly. 5. Measuring of construction equipment and planning,

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Different forms of teaching will be used to reach the objectives of the course. Notes are to be written on the whiteboard, especially design equations, head titles, definitions and summary of conclusions, classification of materials, and any other illustration, there will be classroom discussions and the lecture will give enough background to solve examples. Power points presentations will be used when required, besides worksheets will be designed to let the chance for practicing. Students should read the lecture notes regularly and participate the classroom discussions.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ 15 اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	142	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	10
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	108	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	7.2
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	3 , 7	All
	Assignments	2	10% (10)	2,4,6,8,10,12	All
	Class activity	1	10% (10)		
	Report	1	10% (10)		
Summative assessment	Midterm Exam	1 hr	10% (10)	10	1-5
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Construction equipment and engineering fundamentals.
Week 2	Soil stabilization and compaction, Tractors
Week 3	Bulldozers, scrapers.
Week 4	Excavating equipment
Week 5	Trucks
Week 6	The form works for concrete structures

Week 7	Estimation fundamentals
Week 8	Buildings estimation material
Week 9	Buildings estimation material

Week 10	Buildings estimation material
Week 11	Earthwork estimation
Week 12	Earthwork estimation
Week 13	Cost estimation
Week 14	Contracts and technical specifications
Week 15	Contracts and technical specifications
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)	
المنهاج الأسبوعي للمختبر	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	1. Fundamentals of Behavioral Statistics, 1988 Peurifoy Robert L, and Ledbetter, William B. "Construction Planning, Equipment & Methods" 4th Edition, McGraw-Hill, 1985. 2. Nunnally, S. W. "Construction Methods and Management", 7th Edition, Upper Saddle River, New	Yes

	Jersey: Prentice Hall, 2007. 3. Dutta, B. N. “ Estimating and Costing in Civil Engineering-Theory and Practice”, 24th Edition, USB Publishers’ Distributors Ltd., New Delhi, 1999.	
Recommended Texts		No
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				