

MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Construction Management		Module Delivery	
Module Type	CORE		Theory Lecture Practical	
Module Code	UOMU023055			
ECTS Credits	5			
SWL (hr/sem)	75			
Module Level	1	Semester of Delivery		
Administering Department	Building and construction techniques	College	Al-Mustaqbal university	
Module Leader	Assist. lec aqeel abdul hassan		e-mail	aqeelabdulhassan@uomus.edu.iq
Module Leader's Acad. Title	Senior Chief Engineer		Module Leader's Qualification	None
Module Tutor	None		e-mail	None
Peer Reviewer Name		e-mail		
Review Committee Approval	01/10/2025	Version Number	1.0	

Relation With Other Modules العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	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	1. This course aims to provide a good platform to construction engineering students to understand, appreciate concept of construction equipment projects. 2. To prepare them to carry out experimental and technical skills at later stages of graduation.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Upon completion of this course students will demonstrate the ability to: 1- To apply the knowledge of construction equipment and methods, science and engineering fundamentals. 2- To identify what is contracts management concepts. 3- To instill upon to Important of value engineering. 4- To investigate the effectiveness of excavation Equipment and which one is more suitable for a specific project. 5- To appreciate concepts learn of pumping equipment. 6- To communicate effectively the concepts accident prevention in construction industry.		

	7- Analyse the techniques of Erection of Construction units. 8- Demonstrate basic knowledge about Construction equipment and machinery. 9- Understand standard designations, sizes, and graduations of equipment. 10- apply optimization and productivity techniques to a construction project. 11- Understand standard designations, sizes, and graduations of equipment
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Introduction [2hrs] Value engineering[2hrs] Factors affecting the selection and owning of machines and calculating the working cost [4hrs] Engineering Fundamental : Factors affecting the efficiency during work [4hrs] Tractors and Related Equipment [4hrs] Excavation Equipment: Front Shovel, backhoes, loaders, DRAGLINE, CLAMSHELL EXCAVATORS [4hrs] Road excavator equipment: shovel, grader , bulldozer ,and scraper [2hrs] Formwork for Concrete Structures [2hrs] Excavation Equipment[2hrs] Formwork for Concrete Structures[2hrs] Piles and Pile-Driving Equipment ,Pumping Equipment [2hrs] Trucks and Hauling Equipment:2hrs] Soil Stabilization and Compaction [2hrs]
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Assessment is based on 1- Exams. 2- Student feedback.

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	47	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.1

Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75
---	----

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	Assignments	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	Tutorial	1	10% (10)	Continuous	
	Report	1	10% (10)	13	LO # 5, 8 and 10
Summative assessment	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week	Syllabus
1	Introduction: the role of equipment in various projects and its important in economic constructions , the controlling of material and equipment during construction stages
2	Value engineering
3+4	Factors affecting the selection and owning of machines and calculating the working cost
5+6	Engineering Fundamental : Factors affecting the efficiency during work
7+8	Tractors and Related Equipment
9+10	Excavation Equipment: Hydraulic Excavators, Front Shovel, backhoes, loaders, DRAGLINE, CLAMSHELL EXCAVATORS
11	Formwork for Concrete Structures
12	Piles and Pile-Driving Equipment ,Pumping Equipment
13	Trucks and Hauling Equipment:

14	Soil Stabilization and Compaction
15	Final exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	1. "Construction Planning, Equipment, and Methods," by Peurifoy, R., and Schexnayder, C., 2002. 2. "Modern Construction & Ground Engineering Equipment & Methods," by Harris, F., 1994. Also, Instructor's Notes and Handouts.	Yes
Recommended Texts	"Reinforced concrete design" by Chu-Kia Wand and Charles G. Salmon.	No
Websites		

APPENDIX:

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	مقبول بقرار	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
Note:				
<p>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.</p>				

ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي