

## MODULE DESCRIPTOR FORM

### نموذج وصف المادة الدراسية

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

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

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

### Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<b>Strategies</b>	<p>Assessment is based on</p> <p>1- Exams.</p> <p>2- Student feedback.</p>
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<b>Student Workload (SWL)</b> الحمل الدراسي للطالب			
<b>Structured SWL (h/sem)</b> الحمل الدراسي المنتظم للطالب خلال الفصل	78	<b>Structured SWL (h/w)</b> الحمل الدراسي المنتظم للطالب أسبوعيا	5.2
<b>Unstructured SWL (h/sem)</b> الحمل الدراسي غير المنتظم للطالب خلال الفصل	47	<b>Unstructured SWL (h/w)</b> الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.1

<b>Total SWL (h/sem)</b> الحمل الدراسي الكلي للطالب خلال الفصل	75
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<b>Module Evaluation</b> تقييم المادة الدراسية					
		<b>Time/Number</b>	<b>Weight (Marks)</b>	<b>Week Due</b>	<b>Relevant Learning Outcome</b>
<b>Formative assessment</b>	<b>Quizzes</b>	2	10% (10)	5, 10	LO #1, 2, 10 and 11
	<b>Assignments</b>	2	10% (10)	2, 12	LO # 3, 4, 6 and 7
	<b>Tutorial</b>	1	10% (10)	Continuous	
	<b>Report</b>	1	10% (10)	13	LO # 5, 8 and 10
<b>Summative assessment</b>	<b>Midterm Exam</b>	2 hr	10% (10)	7	LO # 1-7
	<b>Final Exam</b>	3 hr	50% (50)	16	All
<b>Total assessment</b>		100% (100 Marks)			

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

<b>14</b>	Soil Stabilization and Compaction
<b>15</b>	Final exam

<b>Learning and Teaching Resources</b> <b>مصادر التعلم والتدریس</b>		
	<b>Text</b>	<b>Available in the Library?</b>
<i>Required Texts</i>	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
<i>Recommended Texts</i>	"Reinforced concrete design" by Chu-Kia Wand and Charles G. Salmon.	No
<i>Websites</i>		

## APPENDIX:

<b>GRADING SCHEME</b> <b>مخطط الدرجات</b>				
<b>Group</b>	<b>Grade</b>	التقدير	<b>Marks (%)</b>	<b>Definition</b>
<b>Success Group (50 - 100)</b>	<b>A - Excellent</b>	امتياز	90 - 100	Outstanding Performance
	<b>B - Very Good</b>	جيد جدا	80 - 89	Above average with some errors
	<b>C - Good</b>	جيد	70 - 79	Sound work with notable errors
	<b>D - Satisfactory</b>	متوسط	60 - 69	Fair but with major shortcomings
	<b>E - Sufficient</b>	مقبول	50 - 59	Work meets minimum criteria
<b>Fail Group (0 - 49)</b>	<b>FX – Fail</b>	مقبول بقرار	(45-49)	More work required but credit awarded
	<b>F – Fail</b>	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.

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