MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

<table>
<tr><td colspan="5" align="center">Module Information
معلومات المادة الدراسية</td></tr>
<tr>
<td>Module Title</td>
<td colspan="2"><i>Computer Application of structural</i></td>
<td colspan="2">Module Delivery</td>
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<tr>
<td>Module Type</td>
<td colspan="2"><i>Basic</i></td>
<td colspan="2" rowspan="4">Theory
Lecture
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<tr>
<td>Module Code</td>
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<td>ECTS Credits</td>
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</tr>
<tr>
<td>SWL (hr/sem)</td>
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<td>Module Level</td>
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<td>Semester of Delivery</td>
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<tr>
<td>Administering Department</td>
<td>Building and construction techniques</td>
<td>College</td>
<td colspan="2">Al-Mustaqbal university</td>
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<tr>
<td>Module Leader</td>
<td>Ali Sabah Toman</td>
<td>e-mail</td>
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<tr>
<td>Module Leader's Acad. Title</td>
<td><i>Assist.lec</i></td>
<td colspan="2">Module Leader's Qualification</td>
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<tr>
<td>Module Tutor</td>
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<td>e-mail</td>
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<tr>
<td>Peer Reviewer Name</td>
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<td>Review Committee Approval</td>
<td>01/10/2025</td>
<td>Version Number</td>
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Relation With Other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	**Semester**	3
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Aims أهداف المادة الدراسية	The students at the end of the year will be able to: 1- complete all steps of creating the project plan 2- setting the Primavera program and creating new projects 3- defining the calendar system, creating activity codes, adding and organizing 4- activities, adding logic to activities, Creating and supporting resources, Evaluating the projects with resources and printing the records. 5- use the engineering software programs related to its rules and theories has been taught to student previously.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	After completion of this course students will be able to 1- Ability to create and manage project enterprise structure within Primavera P6 database 2- Create project work breakdown structure 3- Develop resource loaded or simple project schedule 4- Manage the project time frame related constraints 5- Estimate the required man-hours for various activities up to total project by resource assignment 6- Reporting critical tasks and developing various structured reports 7- obtain comprehensive knowledge on the CSI software (ETABS ,

	SAP, SAFE)and its applications 8- Analyses & design of structures. 9- Rapid and accurate design of different types of structures. 10- Use spreadsheet software to solve a variety of business problems requiring mathematical solutions;
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Instilling Primavera Software, open a previous project, adding a new project, Describing the program screen, Adding activities to a project, Logic relationship, activity codes, Creation and Deleting Codes. [2hrs] dictionaries, Creating and Deleting Activity and Default Activity code[2hrs] DEFININGCALENDARS: Daily Calendar, Daily Base Calendar, adding colander to activities, Activity Types. [2hrs] Adding the Logic: Adding Relationship to the activities, Auto Link, Deleting Relationship, PERT View, Formatting your PERT View[2hrs]. Scheduling the project and layouts. [2hrs] Creating & Using Resources : Resources definition, Creating Resource, Assigning Resources to Activities, Resources dialog block, Costs dialog block, Assign Resources Against Multiple Activities, Summary Percent Calculation, Editing Resources Calendar, [2hrs] Editing a Resource Calendar, Resource Histogram, Resources Table, Printing tables and Layouts Introduction to CSI software[Etabs, Sap and Safe] [2hrs] Review theories and formulas using in analysis and design of beams and columns. [2hrs] Explain of the program interface and use the program to analysis and design of beams, columns and footings[2hrs] Explain of icons and description of input data. Discussion of the program results based on input data. [2hrs] Examples and assignments with discuss the procedure of analysis and design different types of beams with Etabs[2hrs] Examples and assignments with discuss the procedure of analysis and design of columns with Etabs[2hrs] Examples and assignments with discuss the procedure of analysis and design of various types of footings with Safe Examples and assignments with discuss the procedure of analysis and design of one way slabs in Etabs[2hrs]

	Examples and assignments with discuss the procedure of analysis and design of a small building using Etabs and Safe [2hrs] A report project assignment[2hrs]

Learning and Teaching Strategies
استراتيجيات التعلم والتعليم

Strategies	1- Exams. 2- Student feedback. 3- Homework's 4- Application in lab.

Student Workload (SWL)
الحمل الدراسي للطالب

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	12	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	0.8
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	Midterm Exam	2 hr	10% (10)	7	LO # 1-7
assessment	Final Exam	3 hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)
المنهاج الاسبوعي النظري

	Material Covered
Week	**Syllabus**
Week 1	Instilling Primavera Software, open a previous project, adding a new project, Describing the program screen, Adding activities to a project, Logic relationship, activity codes, Creation and Deleting Codes dictionaries, Creating and Deleting Activity and Default Activity code
Week 2	DEFINING CALENDARS: Daily Calendar, Daily Base Calendar, adding colander to activities, Activity Types
Week 3	Adding the Logic: Adding Relationship to the activities, Auto Link, Deleting Relationship, PERT View, Formatting your PERT View Scheduling the project and layouts
Week 4	Creating & Using Resources : Resources definition, Creating Resource, Assigning Resources to Activities, Resources dialog block, Costs dialog block, Assign Resources Against Multiple Activities, Summary Percent Calculation, Editing Resources Calendar,
Week 5	Editing a Resource Calendar, Resource Histogram, Resources Table, Printing tables and Layouts
Week 6	Introduction to CSI software[Etabs, Sap and Safe]
Week 8	Explain of the program interface and use the program to analysis and design of beams, columns and footings
Week 9	Explain of icons and description of input data. Discussion of the program results based on input data.
Week 10	**Examples and assignments with discuss the procedure of analysis and design different types of beams with Etabs**
Week 11	**Examples and assignments with discuss the procedure of analysis and design of columns with Etabs**
Week 12	**Examples and assignments with discuss the procedure of analysis and design of various types of footings with Safe**
Week 13	**Examples and assignments with discuss the procedure of analysis and design of one way slabs in Etabs**
Week 14	**Examples and assignments with discuss the procedure of analysis and design of a small building using Etabs and Safe**

	A report project assignment
Week 15	**Preparatory week before the final Exam**

Learning and Teaching Resources
مصادر التعلم والتدريس

	Text	**Available in the Library?**
Required Texts	**1-Primavera P6 Resource Management** **2- CSI Analysis Reference Manual**	Yes
Recommended Texts		No
Websites	P6 EPPM Web Services Reference Guide Version 20	

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:

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