MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية							
Module Title	Construction management & Engineering Economy			Modu	le Delivery		
Module Type		Core			☑ Theory		
Module Code		CIV013			☑ Lecture		
ECTS Credits		7			□ Lab		
SWL (hr/sem)		175			□ Tutorial□ Practical□ Seminar		
Module Level		UGIV	Semester o	Semester of Delivery 5		5	
Administering Dep	partment	CV105	College	Civil Engineering College		e	
Module Leader	Saadi Shartool	h Sharqi	e-mail	eng.saadish@uoanbar.edu.iq		du.iq	
Module Leader's A	Module Leader's Acad. Title		Module Lea	Module Leader's Qualification		M.Sc.	
Module Tutor			e-mail	E-mail	E-mail		
Peer Reviewer Name			e-mail	nail E-mail			
Scientific Committee Approval Date		01/06/2023	Version Nu	mber	nber 1.0		

Relation with other Modules					
العلاقة مع المواد الدراسية الأخرى					
Prerequisite module None Semester					
Co-requisites module	Semester				

Module Aims, Learning Outcomes and Indicative Contents					
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية				
Module Aims أهداف المادة الدر اسية	 Perform in the construction industry. To study project planning & scheduling Allocate the resources in project and control Learn project deliveries and the types of contract Helping to take the most economical decision regarding construction projects. Assistance in making the most economical decision regarding investment projects Determine basic resource needs for projects 				
	8. Find alternatives between projects.				
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	 To introduce a concepts of projects formulation To impart the idea about planning and scheduling of activities. To introduce the concepts of resource planning, allocation and control. To provide a bird's eye view of optimization techniques. learn the basics of engineering economics. recognize the concepts of economic materials. expand understanding, knowledge and economic analysis. develop creative and critical thinking skills. 				
	Indicative content includes the following.				
Indicative Contents المحتويات الإرشادية	Chapter one Introduction : Management, - Engineering Management, Engineering Project Management, Programming construction projects ((project scheduling)), Projective of planning project : [6 hrs] Chapter Two Method Of Planning, Construction Activity, [6 hrs] Chapter Three Net Work Analysis Method Activity On Arrow (A.O.A) المنافذ المعاليات على العقد (A.O.N) المعالدات على العقد (Chapter Four الموازن في المعالدات المع				

<u>Chapter Seven</u>			
Crash Program, [6 hrs] البرنامج الفوري			
<u>Chapter Eight</u>			
Resource Allocation(برمجة الموارد (المصادر 6 hrs]			
<u>Chapter Nine</u>			
Concept of Engineering Economics, Cash flow, Break-Even Analysis, Depreciation, [10			
hrs]			
<u>Chapter Ten</u>			
Interest Formulas , Time Value of Money ,. Present worth method of comparison, .			
Future worth method, Annual equivalent method, Inflation, [8 hrs]			

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies

Foundation engineering courses require effective learning and teaching strategies to ensure students develop a strong understanding of complex concepts and their practical applications. The range of strategies that can enhance the learning experience for students in foundation engineering courses. These strategies include lecture-based teaching, practical applications, problem-solving assignments, group work and discussions, technology integration, field trips and site visits, guest speakers, assessments and feedback, continuous learning, and encouraging self-directed learning. By incorporating these strategies, educators can create an engaging and comprehensive learning environment that equips students with the knowledge, skills, and critical thinking abilities necessary for success in the field of Construction management & Engineering Economy.

Student Workload (SWL)					
الحمل الدراسي للطالب					
Structured SWL (h/sem)	78	Structured SWL (h/w)	5.2		
الحمل الدراسي المنتظم للطالب خلال الفصل	70	الحمل الدر اسي المنتظم للطالب أسبو عيا	5.2		
Unstructured SWL (h/sem)	97	Unstructured SWL (h/w)	6.47		
الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	الحمل الدراسي غير المنتظم للطالب أسبوعيا	0.47		
Total SWL (h/sem)	175				
الحمل الدراسي الكلي للطالب خلال الفصل					

Module Evaluation

تقييم المادة الدراسية

		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative	Quizzes	4	10% (10)	3, 6,10,14	LO #1, 3,5, and 7
assessment	Assignments	2	5% (5)	2, 12	LO # 4 and 7

	Projects / Lab.	1			
	Report	1	5% (5)	13	LO # 2,6 and 7
Summative	Midterm Exam	2 hr	20% (20)	7	LO # 1-7
assessment	Final Exam	3hr	60% (60)	16	All
Total assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)					
المنهاج الاسبوعي النظري					
	Material Covered				
Week 1	Management, Introduction, definition				
Week 2	Method Of Planning أنواع طرق تخطيط المشروع				
Week 2	Bar Chart Method طريقة المخطط الشريطي.				
	Net Work Analysis Method				
Week 3	• تنفيذ الفعاليات على الأسهم(A.O.A)				
	• تنفيذ الفعاليات على العقد(A.O.N) •				
Week 4	Line Of Balance Methodطريقة خط التوازن				
Week 5	طریقة بیرتProgram Evolution Review Techniques Method				
Week 6	طريقة المشبك الزمنTime Grade Method				
Week 7	Crash Program البرنامج الفوري				
Week 8	Resource Allocation(برمجة الموارد (المصادر				
Week 9	Mid-term Exam				
Week 10	Concept of Engineering Economics				
Week 11	Cash flow				
Week 12	Break-Even Analysis				
Week 13	Depreciation				
Week 14	Interest				
Week 15	Inflation				
Week 16	Preparatory week before the final Exam				

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1:
Week 2	Lab 2:
Week 3	Lab 3:
Week 4	Lab 4:
Week 5	Lab 5:
Week 6	Lab 6:
Week 7	Lab 7:

Learning and Teaching Resources مصادر التعلم والتدريس					
Text Library?					
Required Texts	كتاب إدارة المشاريع الانشائية للمؤلف احسان العطار ((عربي)) Engineering Economy – R. Panneerselvam	Yes			
Recommended Texts	الادارة والاقتصاد الهندسي. د. انور نعيم قصيرة و د. جورج يوسف حلبي وحيدر اسماعيل اللعيبي حلبي وحيدر اسماعيل اللعيبي principles of construction management – Roy Pilcher. المفاهيم الإدارية الحديثة للمؤلف الدكتور فؤاد الشيخ واخرون الدارة المشاريع ((منهج كمي)) للدكتور محمود العبيدي ودكتور مؤيد	Yes			
Websites	https://www.uoanbar.edu.iq/staff-page.php?ID=727				

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