نموذج وصف المقرر

		<ol> <li>١. اسم المقرر</li> </ol>		
دارة الهندسية والمكائن الانشائية				
		۲. رمز المقرر		
	نة	٣. الفصل / الس		
		سنو <i>ي (</i> ۲۰۲٤		
	هذا الوصف	٤. تاريخ إعداد		
	۲	• 7 ٤/7/٤/٣•		
	مور المتاحة	<ul> <li>أشكال الحض</li> </ul>		
		<b>.</b>		
	ن الدراسية (الكلي)/ عدد الوحدات (الكلي)			
	دراسية (الكلي)/١٢٠			
	المقرر الدراسي ( اذا اكثر من اسم يذكر)			
	حسين علي محيسن			
	ر	<ol> <li>٨. اهداف المقر</li> </ol>		
الانشائية وتطبيق هذه المفاهيم في حل المسائل الهندسية الخاصة				
بالأدارة الهندسية	lati lati			
	· · ·	٩. استراتيجيات		
-	تعليم الادارة الهندسية – الجداول – الاقتم	الاستراتيجية		
	مخرجات المقرر وطرائق التعليم والتعلم ٨ ــــــــــــــــــــــــــــــــــــ			
قارا على إن: استعمال مفاهيم الإدارة الهندسية في وضع نماذج الما ما ما الما الما	<ul> <li>الإهداف المعرفية - أن يكون الصالب</li> <li>هندسية للمسائل ومن ثم القيام بإيجاد</li> </ul>			
العصون عها : أن يكون الطالب قارا على أن: التمثيل الجبري والبياني للنماذج				
	الإدارية الهندسية واستعمالها في حل			
C	٢. طُرائق التعليم والتعلم			
اً - المحاضرات النظرية				
ب- مختبر ات علمية				
	ت- استخدام data show			
	ث- المحاضرات العملية			
	٣. طرائق التقييم			
	أ- الامتحانات اليومية			
	ب- الامتحانات الفصلية والسنوية			

ت- السمنارات	
ث- الامتحانات العملية	
٤ الأهداف الوحدانية والقيمية	
أ- يلتزم بأخلاقيات المؤسسة التعليمية	
ب۔ يعملُ بروح الفريق	
ت- يستقبل ويتقبل المعرفة	
<ul> <li>طرائق التعليم والتعلم</li> </ul>	
أ- المحاضرات النظرية والعملية	
ب- تدريب الطلبة في المختبر ات التعليمية	
٦. طرائق التقييم	
أ- الامتحانات الفصلية والسنوية	
ب- الامتحانات اليومية	
ت- المهارات العامة والتأهيلية المنقولة ( المهارات الأخرى المتعلقة بقابلية التوظيف والتطور الشخصي	
ث- يكون مستعدا للعمل بجد وتفاني	
ج- يغلب الرؤية العلمية على الشخُّصية	
ح- يعمل على تطوير مهاراته المهنية	
خ- يوسع نطاق تفكيره ويندمج بالمجتمع	

**١٠**. بنية المقرر

	33	<b>.</b> .			
طريقة التقييم	طريقة التعلم	اسم الوحدة او الموضوع	مخرجات التعلم	الساعات	الأسبوع
			المطلوبة		
حضور	حضوري	Introduction and historical review of 0 projection		2	1
+		management Work breakdown structure ar			2
امتحانات		management triangle theory	اضافة الى pdf		2
+			للاستفادة		
واجبات صفية			منها وفهم المادة		
=	=	Work breakdown structure and management	=	=	3
		triangle theory.			4
=	=	Critical path method (CPM): Calculation of	=	=	5
		activity durations, float time, calculation of critical path			
=	=	Advantages and disadvantages and example	=	=	6
					7
=	=	Program (Project) evaluation and review	=	=	8
		technique (PERT): Calculation of activity m			9
		likely durations - Float time, calculation of			_
		critical path			
=	=	Advantages and disadvantages and example	=	=	10
		Description of activity durations, crantt			
		chart as outline of critical path description			
=	=	Advantages and disadvantages and example	=	=	11

					10
=	=	Crashing time method, description	=	=	12
		- Advantages and disadvantages and example Economical study on time value of money			10
=	=	Economical study on time value of money	=	=	13
					14
حضور	حضوري	Advantages an and examples	حضور الطلبة الي	=	15
+			القاعة الدراسية		16
امتحانات			اضافة الى pdf		
+			للاستفادة		
واجبات صفية			منها وفهم المادة		
=	=	Introduction ,the role of equipment's in 51	=	=	17
		various projects and its important in econom			
		constructions, the controlling of material an equipment's during construction stages			
		Arrangement of machines records, regular a			18
		annual maintenance , the factors affecting the			
		efficiency during work			
=		The factors affecting the selection and	=	=	19
		owning of machines and calculating the	—	_	17
		working cost, the standard and special			
		equipment's.			
=		Excavation equipment's, hoes, dragline,	=	=	20
		trench, and tunnel excavators, types			21
		and work efficiency $\Box$			22
		Application and axamples			
=	=	Application and examples	=	=	21
					22
=	=	Road excavator equipment's , shovel, grader	=	=	23
		Bulldozer ,and scraper - Types , work			24
		efficiency , productivity			
=	=	Benefit and cost - Application and examples	=	=	25
=	=	Trucks, rear dump truck, bottom	=	=	26
		dump truck, their capacities and			
		numbers ,the factors affecting their			27
		efficiency- Application and examples-			27
		Compactors, compactors with vibrators			
		, for clay soils , granular soils , asphalt			28
		layers, steel, sheep foot, and pneumatic			
		rollers ,manual vibrating compactors ,action of compacting, methods of			
		compacting different types of soils and			
		asphalt, site laboratory tests.			
=	=	Concrete mix plants, components and	_		29
		specifications, truck mixer and their	=	=	29
		specifications, a dex mixer and men			

specifications, specification of a cement and their test, concrete sp site. Cranes, winch, lifting appar cranes, jacks, multistory building	oreader at the atus, fork					
١١. تقييم المقرر نوزيع الدرجة من ١٠٠ على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير الخ						
	١٢. مصادر التعلم والتدريس					
Construction Methods and Management / S.W. Nunnall	الكتب المقررة المطلوبة ( المنهجية أن وجدت )					
<ol> <li>Working &amp; tools of builders / G .Barder .</li> <li>Construction Planning , Equipment &amp; Methods / R. L. Peurifoy &amp; W. B .Ledbetter .</li> <li>Project Planning &amp; Control with PERT CPM / B.C. Punmia &amp; K.K .Khandelnal.</li> </ol>	المراجع الرئيسة ( المصادر )					
Construction Planning , Equipment & Methods / R. L. Peurifoy & W. B. Ledbetter .	الكتب والمراجع الساندة التي يوصى بها (المجلات العلمية، التقارير )					
<ul> <li>ndustrial management web sites</li> <li>Equipment web sites</li> </ul>	المراجع الإلكترونية ، مواقع الانترنيت					

## **Course Description Form**

13. Course Name:	
14. Course Code:	
15. Semester / Year:	
Annual/2024	
16. Description Preparation Date:	
2024/4/30	
17. Available Attendance Forms:	
18. Number of Credit Hours (Total) / Numb	per of Units (Total)
Number of Credit Hours (Total) /120	
19. Course administrator's name (menti	on all, if more than one name)
Name: Tahseen Ali Meheesn	
Email:	
20. Course Objectives	
Course Objectives	<ul> <li>Learn about engineering management concepts, including machine management Structural and application of these concepts in solving special engineering problems In engineering management</li> </ul>
21. Teaching and Learning Strategies	

Strategy	<ul> <li>Educating engineering management – tables – engineering economics – construction machinery Course outputs and methods of teaching, learning, and assessment</li> <li>1. Cognitive Objectives: The student should be able to:</li> </ul>
	<ul> <li>Use concepts of engineering management in formulating engineering models for problems and then finding solutions for them.</li> <li>2. Skills Objectives: The student should be able to: Algebraically and graphicall represent engineering management models and use them to solve problems. Teaching and Learning Methods:</li> </ul>
	<ul> <li>a) Theoretical lectures</li> <li>b) Scientific laboratories</li> <li>c) Use of data projectors</li> <li>d) Practical lectures</li> </ul>

-	rsonal development) ing prepared to work diligently and devotedly			
c) Ge	eneral and transferable skills (other skills related to employability and			
,	ily exams			
	mester and annual exams			
	Student training in educational laboratories 6. nent Methods:			
,	Theoretical and practical lectures			
,	Receiving and accepting knowledge 5. Teaching and Learning			
<i>(</i>				
a)				
c) Seminars d. Practical exams 4. Unitary and Values Objectives:				
b)	•			
a)	Daily exams			
	b) c) a) b) c) Metho a) b) Assess a) Set b) Da c) Ge per			

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2			In presence	

2		classroom	Introduction and historical review of project management Work breakdown structure and manageme t triangle theory		presence+ Exams + class assignments
3	=	=	Work breakdown structure and	=	=
4			management triangle theory.		
5	=	=	Critical path method (CPM): Calculation of activity durations, float time, calculation of critical path	=	=
6	=	=	Advantages and	=	=

7			disadvantages and examples		
89	=	=	Program (Project) evaluation and review technique (PERT): Calculation of activity most likely durations – Float time, calculation of critical path	=	=
10	=	=	Advantages and disadvantages and examples - Description of activity durations, crantt chart as outline of critical path description	=	=
11	=	=	Advantages and disadvantages and examples	=	=
12	=	=	Crashing time method, description - Advantages and disadvantages and examples	=	=
13	=	=	Economical study on time value of	=	=
14			money		
15	=			In presence	

16		Students attend the classroom in addition the PDF to benefit from it and underst and the material	Advantages an and examples t		presence+ Exams + class assignments
17	=	=	Introduction ,the role of equipment'	=	=
18			in 51 various projects and its important in economic constructions, the controlling of material and equipment's during construction stages Arrangement of machines records, regular and annual maintenance, the factors affecting the efficiency during work		
19	=	=	The factors affecting the selection and owning of machines and calculating the working cost, the standard and special equipment's.	=	=

20	=	=	Excavation equipment's,	=	=
21			hoes, dragline, trench, and		
22			tunnel excavators, types and work efficiency		
21	=	=	Application and examples	=	=
22					
23	=	=	Road excavator equipment's	=	=
24			, shovel, grader – Bulldozer ,and scraper - Types , work efficiency , productivity		
25	=	=	Benefit and cost - Application and examples	=	=
26	=	=	Trucks , rear dump truck , bottom		=
27			dump truck , their capacities and		

$\frac{29}{30} = \frac{29}{30} = \frac{29}{30}$ $\frac{29}{30} = 29$	28		numbers ,the factors affecting their efficiency- Application and examples- Compactors, compactors with vibrators ,for clay soils , granular soils , asph layers , steel, sheep foot, and pneumatic rollers ,manual vibrating compactors, action of compacting ,methods of compacting different types of soils and asphalt, site laboratory tests.	=	
		=	Concrete mix plants, components a specifications, truck mixer and their specifications, specification of aggregates and cement and their tes concrete spreader at the site. Cranes, winch, lifting apparatus,		=

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports.... etc

## 9. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Construction Methods and Management / S.W. Nunnally	
Main references (sources)	<ol> <li>Working &amp; tools of builders / G .Barder .</li> <li>Construction Planning , Equipment &amp; Methods / R. L. Peurifoy &amp; W. B .Ledbetter .</li> </ol>	
	3. Project Planning & Control with PERT CPM / B.C. Punmia & K.K .Khandelnal.	
Recommended books and references (scientific journals, reports)	Construction Planning , Equipment & Methods / R. L. Peurifoy & W. B. Ledbetter .	
Electronic References, Websites	industrial management web sites Equipment web sites	