Academic Program Description Form

University Name: Diyala Faculty/Institute: Engineering Scientific Department: Materials engineering Academic or Professional Program Name: Bachelor of Materials engineering Final Certificate Name: Bachelor of Materials engineering Academic System: course Description Preparation Date: 24-6-2024 File Completion Date: 24-6-2024

Signature: Head of Department Name: Suha R. Shihab Date: 25/6/2024

Signature:

Scientific Associate Name:

Jabbar Galfmon Date: 25/6/2024

The file is checked by: Salah N. Farhan Department of Quality Assurance and University Performance Director of the Quality Assurance and University Performance Department; Date: 75/6/20 Signature: Approval of the Dean + Prof. Dr. Anees A. Khadu

Course: Engineering Economics

1. Program Vision

2. Program Mission

3. Program Objectives

4. Program Accreditation

5. Other external influences

				6. Program
مناحظات *	النسبة المئوية	وحدة دراسية	عدد المقررات	هيكل البرنامج
	4.24 %	6	5	متطلبات المؤسسة
	14.20 %	20	9	متطلبات الكلية
				متطلبات القسم
Graduation Requirements	-	-	-	التدريب الصيفي
				أخرى

* ممكن ان تتضمن الملاحظات فيما اذا كان المقرر أساسي او اختياري .

7. Program Description									
Credit	Hours	Course Name	Course Code	Year/Level					
practical	practical theoretical								

8. Expected Learning Outcomes of the Progra	ım
	Knowledge
	 <i>Knowledge</i> 1) Understand and teach the student the principles of materials science and how to deal with materials. 2) Enable students to obtain knowledge and understanding in working on materials and designing. 3) Understand the student methods of forming parts of the materials and their interconnection. 4) Enable students to obtain knowledge and understanding by designing everything related to materials engineering. 5) Enable students to obtain knowledge and understanding on the diagnosis and examination of types of materials. 6) Understand the student the basics of solving problems using materials in various industries.
	Skills
	 Explain the topics of the principles of materials engineering science by specialists in the subject with an emphasis on the use of the practical side as a basis for understanding and learning It provides them with the skills to solve practical problems related to the science of engineering various materials and solve technical problems in various fields of work.
	Values
	Enable students to think and analyze topics related to the engineering framework of materials engineering science Enable students to think and analyze topics related to practical problem solving

9. Teaching and learning strategies

10. Evaluation methods

11. Faculty Faculty Members							
Preparation of the teaching staff		Special requirements/skills if any	Special	ization	Academic Rank		
lecturer	angel		special	year			

Professional Development

Orientation of new faculty members

Faculty members are guided by holding periodic meetings and reverse review by the Scientific Committee for questionnaires obtained from students

Professional development for faculty members

The teaching staff is developed through the establishment of training or specialized courses, practical workshops and seminars with quarterly seminars. Progress is reviewed by evaluating the results of the subjects.

12. Acceptance Criterion

13. The most important sources of information about the program

14. Program Development Plan

	مخطط مهارات البرنامج														
	Learning outcomes required from the program											-			
			القيم			ت	المهار اد				المعرفة	1	Course	Course	Veer/Level
4 C	3C	2c	1C	4b	3 b	2b	1b	A4	A 3	A 2	A 1	اساسي أم اختياري	Name	Code	Year/Level
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	fundamental	Engineering Economics	MAE 404	IV/Chapter II
															_

• Please tick the boxes corresponding to the individual learning outcomes from the program subject to evaluation

Course Description Form

1. Co	urse Name								
	Engineering Economics								
2. Co									
	MAE 404								
3. Set	3. Semester / Year								
4 D	Second Semester / Fourth Year								
4. Da	te of preparat	tion of the description $24/6/$	2024						
5. Av	24 / 6 / 2024 5. Available attendance formats								
5. 110	5. Available attendance formats Came								
6. Nu									
		30)						
		urse administrator (if more than o	,						
		Alwan Email:saib_Alwan_eng@	@uodiyala.edu.iq						
	urse Objectiv								
	derstand the	e principles of engineering							
		out economic projects	Course Obj	ectives	5				
• Le	arn the types	of engineering economics							
0	ochine or 1 I	corning Strategies							
	9. Teaching and Learning Strategies Providing students with scientific, practical and self-skills that enable them to solve								
Ų		leal with them with scientific cor			Strategy				
	urse Structur	e							
Evaluati	Learning	Linit on onlyingt name	Required Learning	H	West				
method	on method Onit of subject ha		Outcomes	ou rs	Week				
Daily	PDF	Principles of Engineering	Introduction to	15					
and	lectures,	Economy and Equivalence	Engineering Economics -	6	1-2-3				
monthly exams	PPT	and compound interest formula.	Types - Principles						
Daily	PDF								
and	lectures,	Uniform payment model.and	Recognize payment patterns and	10	4-5-6-7-8				
monthly exams	PPT	Gradient payment model	characteristics		15070				
- Autio		Decision criteria for single		1					
Daily	PDF	and multiple alternatives:	Learn about the						
and monthly	lectures,	Present worth, annual worth, future worth, internal	applications of engineering economics	10	9-10-11-12-13				
exams	PPT	rate of return, benefit cost	and its laws						
		ratio-and Economic laws							
Daily and		Comparison among projects,	Learn how to compare and						
monthly	PDF	projects evaluation,	evaluate projects, project	4	14-15				
exams	lectures, PPT	replacement, management and risk	management strategies	4	14-15				
		management	and management skills						
1	11. Course Evaluation								
Distri	Distribution of the grade out of 100 according to the tasks assigned to the student such as daily								
· ·	preparation and daily, oral and monthly exams editorial and reports etc								
		and Teaching Resources							
McG	raw-Hill, a bu	isiness unit of The Re	quired textbooks (methodolog	y, if an	y)				
		npanies, Inc., 1221 Avenue							
of the	e Americas, N	Iew York, NY 10020.							

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lectures provided by the subject teacher and Books available in the college library	Main references (sources)
All sober scientific journals related to the principles of engineering economics . Engineering Economy .seventh edition,2010.	Recommended supporting books and references (journals, reports)
Useful and appropriate websites for engineering economics	Electronic References, Websites