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 K. Shihab
Date: 25/6/2024

Signature:

Scientific Associate Name:
Jabbar Gaftmah
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: 25/6/2024

Signature:

Approval of the Dean

Prof. Dr. Anees A. Khadom

1. Program Vision

.Preparing and qualifying engineers specialized in materials engineering sciences through diversification in learning and teaching methods and training students to apply the acquired knowledge and skills to solve real-life problems.

.The department seeks to provide distinguished academic programs in the field of materials engineering sciences in both theoretical and applied aspects that comply with international standards of academic quality.

uraging and developing scientific research in the fields of materials engineering in of design, manufacturing and selection of materials, which include metal, ceramic, eric, composite materials, in addition to recycling and manufacturing materials .

ling a stimulating environment for faculty members to develop their educational and ch capabilities and skills.

epartment strives to improve the teaching staff by sending the department's affiliates stgraduate studies inside and outside the country and creating the appropriate ions for scientific research in order to obtain the required degrees. Providing students ne ability to learn, develop personally and work in the field

ups

2. Program Mission

Exerting efforts to build, train and qualify capabilities with high professionalism, conduct applied research, provide specialized advisory services in materials engineering sciences and fields, and provide advanced and accredited engineering education to meet the needs of departments and institutions. The department seeks to graduate the first batch in 8102, where the first batch will support state departments and institutions in the province

3. Program Objectives

1Preparing and qualifying engineers specialized in materials engineering sciences through diversification in learning and teaching methods and training students to apply the acquired knowledge and skills to solve problems
Realistic.
2. The department seeks to provide distinguished academic programs in the field of materials engineering sciences in both theoretical and applied aspects that comply with international standards of academic quality.

3- Encouraging and developing scientific research in the fields of materials engineering in terms of design, manufacture and selection of materials, which include metal, ceramic, polymeric, and composite materials.
In addition to recycling and manufacturing materials.
4. Provide a stimulating environment for faculty members to develop their educational and research capabilities and skills.
5- Providing students with the ability to self-learning, personal development and work in groups

4. Program Accreditation

The program is in the preparation stage for accreditation

5. Other external influences

The course is general and is supported by the Presidency of Diyala University

6. Program Structure

Program structure	No . courses	Learning unit	percentage	notes
University requirement	4.24 %	6	5	
Collage requirement	14.20 %	20	9	
Department requirement				
Summer training	-	-	-	Graduation Requirements
others				

7. Program Description				
Credit Hours		*Course Name*	*Course Code*	*Year/Level*
	Theoretical ***only***	Professional Ethics	E401	Fourth

8. Expected Learning Outcomes of the Program	
	Knowledge
- Studying the concept of professional ethics in its general, linguistic, and terminological sense and the importance of those ethics. ***- Identify the history of ethical engineering codes, their development and interdependence with each other.*** ***- List some engineering disasters that occurred due to lack of professional ethics.*** .	*Learning outcomes 1, 2 and 3*
– Organize the work well and avoid chaos that does not lead to harvesting its fruits. ***- Monitor work by providing a good system of supervision.***	*Skills*
	Values
Attention: Arousing the attention of students by implementing one of the applied programs on the display screen in the hall. Response: Follow up the student's interaction with the material displayed on the screen - Attention: Follow up the interest of the student who interacted more with the displayed material, by increasing this interaction by requesting other programs and applications to display it. - Formation of direction: meaning that the student is sympathetic to the presentation and may have an opinion towards the topic presented and defend it. - The formation of value behavior: in the sense that the student reaches the top of the emotional ladder so that he has a fixed level in the lesson and does not laze or fidget	*Learning Outcomes 4*
- Attention: Arousing the attention of students by implementing one of the applied programs on the display screen in the hall . - Response: Follow up on the student's interaction with	*Learning Outcomes 5*

the material displayed on the screen. - Interest: Follow up the interest of the student who interacted more with the presented material, by increasing this interaction by requesting other programs and applications to display it. - Formation of direction: meaning that the student is sympathetic to the presentation and may have an opinion towards the topic presented and defend it. C5- Formation of value behavior: meaning that the student reaches the top of the emotional ladder, so he has a fixed level in the lesson and does not laze or fidget	

9. Teaching and learning strategies

The usual theoretical presentation method using the writing board and depending on the style (how and why) of the subject and according to the teaching curriculum of the subject.

• The theoretical presentation method using the (data show) device and depending on the method (how and why) of the subject and according to the teaching curriculum of the material.

• Laboratory presentation method using special devices to measure the different properties of the material under experiment

10. Evaluation methods

Direct questions in a manner (how and why) of the topic during the theoretical and practical lecture.

• Sudden exams during the theoretical and practical lecture.

• Semester exams for the theoretical and practical side.

• Final exams for the theoretical and practical side.

d. General and qualifying skills transferred (other skills related to employability and personal development).

D1- Developing the student's ability to perform duties and deliver them on time.

D2- Logical and programmatic thinking to find software solutions to various problems.

D3- Developing the student's ability to dialogue and discussion.

D4- Developing the student's ability to deal with modern technology, especially the Internet.

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

Professional Development
Orientation of new faculty members
In addition to passing the courses of teaching methods and language safety, the department works on development courses and workshops to prepare and guide new teaching members
Professional development for faculty members
Using learning platforms and electronic methods to display lectures, seminars and reports, display educational videos and conduct lectures accompanied by practical application.

12. Acceptance Criterion

Central Admission

13. The most important sources of information about the program

Ibet

14. Program Development Plan

It included updating the curricula and creating the medical materials branch

Program skills chart															
Learning outcomes required from the program															
values				skills				Knowledge				Essential or elective	**Course Name**	**Course Code**	**Year/Level**
4C	**3C**	**2c**	**1C**	**4b**	**3b**	**2b**	**1b**	**A4**	**A 3**	**A 2**	**A 1**				
•	•	•	•			•	•		•	•	•	Essential	ethics	E401	Fourth

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

Course Description Form

1. Course Name
Professional Ethics
2. Course Code
E401
3. Semester / Year
Chapter One
4. Date of preparation of the description
9-8-2024
5. Available attendance formats
Came
6. Number of Hours (Total) / Number of Units (Total)
1
7. The name of the course administrator (if more than one name is mentioned
Name :) Dr. Ikhlas Idan Qader Email: ekhlasedan_eng@uodiyala.edu.iq
8. Course Objectives

d. General and qualifying skills transferred (other skills related to employability and personal development). D1- Application of mathematical skills in practical problems D2- Skills in oral and written communication, use of information and communicate effectively. D3- Control time and resources and work in one team Published sources D4 - The ability to design and practical in analyzing problems and extracting information from	Course Objectives

9. Teaching and Learning Strategies	
	Strategy

10.Course Structure

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours	Week
Written exam	Theoretical lecture	The concept of professional ethics	Introduce the basic concepts of the subject	1	First Lecture 1
Written exam	Theoretical lecture	The concept of professional ethics	Introduce the basic concepts of the subject	1	First Lecture 2
Written exam	Theoretical lecture	General components of professional ethics	Introduce the basic concepts of the subject	1	Third Lecture3
Written exam	Theoretical lecture	General components of professional ethics	Introduce the basic concepts of the subject	1	Fourth Lecture 4
Written	Theoretica	Engineering Ethics	Introduce	1	Fifth

exam	l lecture		the basic concepts of the subject		Lecture 5
Unannounced exams and self-assessment during the lecture	Lectures, slides and reports	History of Engineering Blogs	Introduce the basic concepts of the subject	1	VI Lecture6
Unannounced exams and self-assessment during the lecture	Lectures, slides and reports	History of Engineering Blogs	Introduce the basic concepts of the subject	1	Seventh Lecture 7
Unannounced exams and self-assessment during the lecture	Lectures, slides and reports	Engineering disasters	Introduce the basic concepts of the subject	1	Eighth Lecture 8
Unannounced exams and self-assessment during the lecture	Lectures, slides and reports	Examples from engineering codes of ethics	Introduce the basic concepts of the subject	1	IX Lecture9
Unannounced exams and self-assessment during the lecture	Lectures, slides and reports	Examples from engineering codes of ethics	Introduce the basic concepts of the subject	1	Lecture 10
Unannounced exams and self-assessme	Lectures, slides and reports	Examples from engineering codes of ethics	Introduce the basic concepts of the subject	1	Al-Khadi Ten Lecture 11

nt during the lecture					
Unannounced exams and self-assessment during the lecture	Lectures, slides and reports	Examples from engineering codes of ethics	Introduce the basic concepts of the subject	1	Twelfth lecture 12
Unannounced exams and self-assessment during the lecture	Lectures, slides and reports	Examples from engineering codes of ethics	Introduce the basic concepts of the subject	1	Thirteenth lecture 13
Unannounced exams and self-assessment during the lecture	Lectures, slides and reports	Institute of Electrical Engineers Blog	Introduce the basic concepts of the subject	1	Fourteenth lecture 14
Unannounced exams and self-assessment during the lecture	Lectures, slides and reports	Institute of Electrical Engineers Blog	Introduce the basic concepts of the subject	1	Fifteenth Lecture15

11.Course Evaluation	
Daily preparation score and attendance5% Daily exam score 10% Monthly exam score 20% Seminar and reporting score 5%	
12.Learning and Teaching Resources	
1 Engineering Ethics, Author : Dr. Nabil Abdul Razzaq	Required textbooks (methodology, if any)
1. gineering Ethics: Concepts and Cases" by Charles E. Harris Jr., Michael S. Pritchard, and Michael J. Rabins 2. Engineering Ethics: Concepts and Cases" by Charles E. Harris Jr., Michael S. Pritchard, and Michael J. Rabins	Main references (sources)
1. Case Studies in Engineering Ethics" by Michael S. Pritchard and Elaine E. Englehardt • 2. "Professional Ethics and Human Values" by Jayakum	Recommended supporting books and references (journals, reports..)
https://opentextbc.ca/ethicsinlawenforcement/chapter/references-2/	Electronic References, Websites