

**Ministry of Higher Education and Scientific Research  
Scientific Supervision and Scientific Evaluation Apparatus  
Directorate of Quality Assurance and Academic Accreditation  
Accreditation Department**



# **Academic Program and Course Description Guide**

**2024**

## **Introduction:**

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

## **Concepts and terminology:**

**Academic Program Description:** The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

**Course Description:** Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

**Program Vision:** An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

**Program Mission:** Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

**Program Objectives:** They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.


**Curriculum Structure:** All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

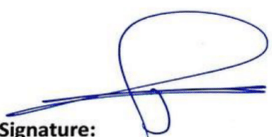
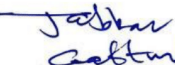
**Learning Outcomes:** A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

**Teaching and learning strategies:** They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.


**Academic Program Description Form**

University Name: Diyala  
Faculty/Institute: College of Engineering  
Scientific Department: Department of Electrical Power and Machines Engineering  
Academic or Professional Program Name: Bachelor  
Final Certificate Name: Bachelor of science in Electrical Power and Machines Engineering  
Academic System: Course  
Description Preparation Date: 13/8/2024  
Completion Date: 13/8/2024

Signature:   
Head of Department Name:  
Asst. prof. Dr. Balasim M. Hussein  
Date: 13/8/2024

Signature:   
Scientific Associate Name:  
Asst. prof. Dr.   
Date: 13/8/2024



The file is checked by:  
Department of Quality Assurance and University Performance  
Director of the Quality Assurance and University Performance Department:  
Date:  
Signature: 

  
Approval of the Dean

Prof. Dr. Anees A. Khaden

## Course description form

<b>1. Course Name</b>	
Engineering profession ethics	
<b>2. Course Code</b>	
E104	
<b>3. Semester/Year</b>	
Spring Semester/Fourth Year	
<b>4. The date this description was prepared</b>	
2023 / 9 / 17	
<b>5. Available forms of attendance</b>	
Face-to-Face theoretical lectures	
<b>6. Number of study hours (total) / number of units (total)</b>	
15/2	
<b>7. Name of the course administrator</b>	
Name: Assist. Lect. Ibrahim I. Ibrahim Email: <a href="mailto:ibrahem_a@uodiyala.edu.iq">ibrahem_a@uodiyala.edu.iq</a>	
<b>8. Course objectives</b>	
<b>Objectives of the study subject</b>	<ol style="list-style-type: none"><li>1. Introducing the student to the concept of engineering ethics and identifying why it is important to study engineering ethics.</li><li>2. Understand the distinction between professional and personal ethics, and know how ethical problem solving and engineering design are similar.</li><li>3. Find out if engineering is a profession, understand what codes of ethics are, and study some of the codes of ethics of professional engineering societies.</li><li>4. Introducing the student to the concept of management and the activities that individuals carry out to carry out the necessary work for the purpose of achieving goals, in addition to discussing production, ways to develop it, its types, and how to achieve optimal efficiency in production management. Also in this topic, choosing the most appropriate locations for the factory and its planning is discussed through</li></ol>

	studying the factors influencing its selection. Using the break-even point to compare between types of planning.
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## 9. Teaching and learning strategies

<b>The Strategy</b>	<input type="checkbox"/> Weekly lectures included providing students with the basics and topics related to the concept of the engineering profession from an ethical standpoint. <input type="checkbox"/> Presenting a seminar to the student in front of his fellow students to enhance his self-confidence.
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## 10. Course structure

Week	Hours	Name of the unit or topic	Required learning outcomes	Learning method	Evaluation method
1-3	2	Introduction to the ethical and professional responsibilities and develops engineering skills	The student learns an introduction to engineering ethics and why it is important to study engineering ethics. And its applications in all engineering specializations.	Whiteboard and Data show	Daily, oral, monthly, written examinations and reports
4-6	2	The Engineer and engineering disciplines, Engineering Ethics Problem Solving, Introduction to engineering design, Engineering Communications Literature search skills.	The student learns how to distinguish between professional and personal ethics and learn how ethical problem solving and engineering design are similar.	Whiteboard and Data show	Daily, oral, monthly, written examinations and reports
7-10	2	Code of Ethics, Types of Codes of Ethics	The student learns codes of ethics, and studies some codes of ethics of professional engineering societies. .	Whiteboard and Data show	Daily, oral, monthly, written examinations and reports
11-15	2	Definition of management, management duties, scientific management, management and other sciences, deployment activities, advertisements, products transfer,	During the academic course, the student learns an idea about engineering and scientific management and its relationship to the concept of industrial engineering and	Whiteboard and Data show	Daily, oral, monthly, written examinations and reports

		products storing, financial resources and risks, production factors, types of productions, markets, incomes and costs of productions.	other sciences and learns about its duties in addition to marketing and marketing activities for the product.		
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## 11. Course Evaluation

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

## 12. Learning and teaching resources

Required textbooks (methodology, if any)	Engineering Ethics, 4th Edition, Charles B., (2011).
Main references (sources)	Lectures provided by the subject teacher. Books available in the college library
Recommended supporting books and references (scientific journals, reports....)	
Electronic references, Internet sites	All websites that explain the ethics of the engineering profession