

وزارة التعليم العالي والبحث العلمي جهاز  
الإشراف والتقويم العلمي  
دائرة ضمان الجودة والاعتماد الأكاديمي

## استمارة وصف البرنامج الأكاديمي للعام الدراسي ٢٠٢٤\_٢٠٢٥ للكليات والمعاهد

الجامعة : جامعة شط العرب الأهلية

الكلية /المعهد : الكلية التقنية الهندسية

القسم العلمي : قسم هندسة تقنيات الأجهزة الطبية

تاريخ ملء الملف : 2025/8/4

التوقيع :

اسم المعاون العلمي: أ.د. كامل حسين السوادي

التاريخ :

4/8/2025

الأستاذ الدكتور  
كامل حسين السوادي  
كيمياء تحليلية

التوقيع :

اسم رئيس القسم : د. هادي هادي

التاريخ : 2025 /8/4



دقق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

اسم مدير شعبة ضمان الجودة والأداء الجامعي: التاريخ

/ /

التوقيع

مصادقة السيد العميد

أ.م.د. مازن عبداللّه علوان

عميد الكلية التقنية الهندسية

**Ministry of Higher Education and Scientific Research**

**Supervision and Scientific Evaluation Body**

**Quality Assurance and Academic Accreditation Office**

## **Course Description Sample**

**Subject:**Electrical Machines

This course description provides a concise summary of the main features of the course and the learning outcomes expected of the student, demonstrating whether the student has made the most of the learning opportunities available. It must be linked to the programme description.

1. Educational Institution	Shatt Al Arab University
2. Department / Center	Medical Devices Technology Engineering
3. Course Title /Code	MIET2106
4. Lecturer Name	Assistant Lecturer Aya Abdul Hussein
5. Type of Teaching	Theory – Lab – Tutorial
6. Academic Year /Term	2024/2025
7. Total No. of Teaching Hours	75
8. Date of Preparing this Course Description	

### **9. Course Objectives**

1. Understand the basic concepts of the MATLAB programming language environment.
2. Students will understand and learn how to use MATLAB as an effective programming language.
3. Students will be able to solve various mathematical and engineering problems, as well as use planning functions and design projects using code or a graphical user interface.
4. Students will gain knowledge of basic MATLAB concepts, such as variables, inputs, outputs, vectors, matrices, functions, planning, and the graphical user interface.

## 10. Course Output, Methodology and Evaluation

### (A) Cognitive Objectives

1. Understand the MATLAB environments and windows (Command Window, Workspace Window, Command History Window, Help Window, Editor Window).
2. Students learn how to write a basic program, and learn expressions, constants, matrix insertion, useful matrix generators, writing under the index, terminating text with an index, the colon operator, and moving and deleting rows or columns.
3. Explain how to use variables, assignment statements, and the logical operator.
4. Practice using matrices, built-in functions, and basic matrix functions (sum, max, min, mean, magic, diagnostic, length, size, median, product, and sort).
5. Learn how to perform basic plotting (multiple data sets in a single graph, specifying line styles and colors, plotting multiple charts in a single figure, and setting axis boundaries).
6. Understand arguments and return values, the M file, and input and output statements.
7. Practice using control statements (conditional statements: If, Else, Elseif, and switching case).
8. Identify loop statements (While statements, For statements).
9. Learn how to use a combination of conditional and loop statements.
10. Understand procedures and functions (a custom MATLAB function, defining function names, input and output variables, and function calls).
11. Learn how to work with graphics and the user interface.

### (B) Skill Objectives Related to the Program:

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### Methods of Teaching and Learning

1-Lecturers.
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2-Class discussion.  
3-Lab Experiments.  
4-Researchs.  
5-Homework.

### **Methods of Evaluation**

<b>Number</b>	<b>calendar element</b>	<b>degree</b>
1-Examinations.		
2-Lab Experiments.		
3-Quizz.		
4-Oral Exam.		
5-Researchs.		

### **(C) Sentimental and Value Objectives**

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### **Methods of Teaching and Learning**

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### **Methods of Evaluation**

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### **D) General and Qualitative Skills (other skills related to the ability of employment and personal development)**

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## **11. Course Structure**

**(In the table of course weekly outline)**

<b>Week</b>	<b>No of Hours</b>	<b>Required Learning Output</b>	<b>Title of Subject</b>	<b>Teaching Method</b>	<b>Evaluation</b>
1					
2					
3					
4					
5					
6					
7					

## **12. Infrastructure**

a. Textbooks	. Introduction to MATLAB for Engineers William J. Palm III
b. References	INTRODUCTION TO MATLAB FOR ENGINEERING STUDENTS ,David Houcque
c. Recommended books and periodicals (journals, reports, etc.)	
d. Electronic references, internet websites, etc	The Collage E-Library

## **13. The Plan of Improving the Course**

<ol style="list-style-type: none"> <li>1. Add advanced skills</li> <li>2. Link new skills to the overall knowledge objectives of the department</li> </ol>
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