1. Description of the Higher Diploma Program

Program objective

Higher Diploma in Computer Technology Engineering prepares the student for the following

• Developing scientific and practical capabilities in the field of computer engineering.

• Formulate successful solutions to technical problems in the field of computers and related applications.

The student learning outcomes of the program are:

- Tools and techniques: The ability to use the latest technologies in the field of computer engineering.
- Depth: Depth of knowledge in the field of computer engineering
- Research: The ability to conduct effective and useful research.

Method and duration of study

The duration of the study is one year, with two semesters, including an applied research in the specialization

Study materials assessment

The program will be taught in English.

Alongside the campus, online courses and a list of suggested readings will be provided to help the student understand the basic concepts of computer engineering. Assessment of each subject may include assignments, midsemester exams, research papers for the project and coursework, in addition to the final exam, which is usually held at the end of the semester.

Graduation Requirements

Students are required to successfully complete 12 subjects (24) credits and research the relevant topic (12) credits, for a total of 36 credits

Those who fail in the course are allowed to make a second attempt, and those who fail again will be removed from the program

2. Curriculum structure

The total required credits are 36 credits, 24 credits for academic subjects and 12 credits for research

3. Subjects

First semester

Credits	subject	
3	Microprocessors	1
2	Computer	
	Communication and	2
	Networking	
2	Digital signals and Image	С
	Processing	3
2	Engineering Analysis	
3	Advanced architecture	
1	English	
-	Research Methodology	7

Second semester

Credits	Subject	
2	Microprocessor Based Systems Design	1
2	Wireless communication	2
2	Artificial Neural Systems	3

3	Advanced	Computer	л
	Technology		4
3	Computer Interfacing Circuits		5
1	Engli	sh	6

Project 12 credits