Ministry of Higher Education and Scientific ResearchScientific Supervision and Scientific Evaluation Apparatus Directorat of Quality Assurance and Academic Accreditation Accreditation Department

Academic Program and Course Description Guide

2025-2024

Introduction:

The educational program is a coordinated and organized package of courses that include procedures and experiences organized in the form of academic vocabulary whose main purpose is to build and refine the skills of graduates, making them qualified to meet the requirements of the labor market, which is reviewed and evaluated annually through internal or external audit procedures and programs such as the external examiner program. The description of the academic program provides a brief summary of the main features of the program and its courses, indicating the skills that are being worked on to acquire for students based on the objectives of the academic program, and the importance of this description is evident because it represents the cornerstone in obtaining program accreditation and is written jointly by the teaching staff under the supervision of the scientific committees in the scientific departments. This guide, in its second version, includes a description of the academic program after updating the vocabulary and paragraphs of the previous guide in light of the developments and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly) system, as well as the adoption of the description of the generalized academic program according to the book of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna track as a basis In this regard, we can only emphasize the importance of writing a for their work. description of academic programs and courses to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The description of the academic program 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 student to achieve, proving whether he has made the most of the available learning opportunities. It is derived from the description of the program.

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

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 (semester, yearly, Bologna track) whether Requirement (ministry, university, college and scientific they are required department) with the number of study units.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by the student 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 member to develop the student's teaching and learning, and they are plans that are followed to reach the learning goals. That is, describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: AL-Kitab
Faculty/Institute: College of Technical Engineering
Scientific Department:
Computer Technology Engineering Techniques
Academic or Professional Program Name: Bachelor of Computer Technology Engineering
Final Certificate Name: Bachelor of Computer Technology Engineering Technologies
Academic System: Yearly
Date of preparation of the description: 17/1/2025
File Filling Date: 17/1/2025

Signature:
Head of Department Name: Hussien Ibzar
Date: 2025/2/2

Signature:
Scientific Associate Name: Dr. Faris Hassan Taha
Date: 3/2/2025

the file is checked by
Division of Quality Assurance and University Performance
Name of the Director of the Quality Assurance and University Performance Division:

Date 9/2/2025
Signature
Authentication of Mr. Dean
Asst. Prof. Dr. Mohammed Yosif Mohammed

Al Kitab University
Colleges
Engineering Techniques

• Program Vision
Achieving leadership and excellence in all aspects of computer technology engineering, academic, professional, community service, and providing study programs and research activities in the field of computer technology engineering.

• Program Mission
Qualifying graduates and human cadres in the field of computer technologies in a way that contributes to meeting the needs of the country in the field of computer technology engineering engineering (academically and research) of all types and sizes for public and private sector departments.

• Program Objectives
Preparing engineering cadres in the field of computer technology engineering engineering, which is responsible for studying the country's need for development and progress and is able to meet the needs of the labor market in state institutions and industry sectors, and to pursue its graduate studies to adapt to modern technical development

• Programmatic accreditation
AICBA

• Other external influences
Laboratories, Libraries

• Program Structure

Program structure	**Number of courses**	Unit of study	**percentage**	**Notes***
Organization Requirments	1	4	%9	Basic
College requirements	6	21	11%	Basic
Department Requirments	23	111	60%	Basic
Summer Training	2			Basic
Other				Basic

* All of these values are identical to the Department of Aeronautical Polytechnic Engineering/ College of Engineering Technology / Central Technical University - Baghdad, because we are the university affiliated with them

*The notes Include whether the Module is Basic or not

Program Structure7

ECTS	Credit Hours	Module name	Module code	Stage/Year
4	**3**	Computer Applications	**207CTE02**	Second stage
4	**3**	2) Mathematic (	CTE02202	
7	**5**	Microprocessor arcitechture	CTE02203	
6	**4**	Devices and measurment	CTE02204	
6	**4**	Object Orieanted Programming	CTE02205	
6	**5**	Fundamentals of communications	CTE02206	
6	**4**	Electronic	CTE02208	
2	**1**	English language		
4	3	Computer network simulators	**CTE02310**	Third stage
6	4	Engineering analyses	**CTE02302**	
6	4	Fundamentals of control engineering	**CTE02303**	
6	4	Foundations of computer networks	**CTE02304**	
6	4	Design of real time systems	**CTE02305**	
6	4	Digital Signal processing	**CTE02306**	
6	4	Digital communications	**CTE02307**	
2	1	English		

4	3	Computer networking protocols	**CTE02301**	Fourth stage
6	4	TeleCommunications systems	**CTE02302**	
6	4	Security of computers and their networks	**CTE02303**	
6	4	Media computing	**CTE02309**	
6	4	Information theory and coding	**CTE02305**	
6	4	project management	**CTE02306**	
6	4	Professional ethics	**CTE023xx**	
6	4	Advanced digital electronics	**CTE02308**	

Expected learning outcomes of the program •	
Knowledge	
Results B1 – Qualifying the student to practice the profession of computer technology engineering and take responsibility for education. B2 – Enable the student to keep pace with the methods of training computer technology engineering. B3 – Providing the student with the necessary skills in dialogue and discussion. B4 – Enable students to prepare analytical statements and lists and enhance their skills in computer technology engineering and practical analysis.	A. Knowledge A1- Graduating engineering cadres with an integrated leadership personality and high professional skills and ethics that meet the needs of Civil and military state institutions relevant to competence. A2 - The ability to engineering analysis and scientific thinking through the application of laws in science, mathematics and engineering and adherence to the guidelines and instructions to implement a project or face an engineering problem, solve and evaluate it, submit a proposal or plan, reformulate, translate or interpret it. A3- The student should be able to speak and write in an influential engineering scientific style in Arabic and English. A4- Motivating students to participate effectively in the renaissance and progress of society through the establishment of seminars, conferences, continuing education and providing academic consultations in the fields of computer technology engineering engineering. A 5- The student should be able to write scientific and applied research in the engineering fields for the purpose of solving industrial and service problems in society A6- Active participation in the renaissance and

	progress of society through the establishment of seminars, conferences, continuing education and providing academic consultations in the fields of computer technology engineering engineering.
skills	
Results B1 – Enables the student to use scientific and technological tools for computer technology engineering. B2 – Enables the student to write scientific research B3 - Enables the student to teach subjects related to computer technology engineering. B4 - - The student acquires the necessary skills in dialogue and discussion	B- Subject-specific skills B1 – The ability to use scientific and technological tools to engineer computer technologies. B2 – Analysis of technical problems to find appropriate solutions for them. B3 - The use of scientific investigation and evaluation to solve engineering problems. B4 - The student acquires the necessary skills in dialogue and discussion
Statement of Learning Outcomes Enables the student to know the basics of computer technology engineering engineering.	Learning Outcomes
Evaluation	
Results All tests aim to raise the student to love the profession of computer technology engineering and creativity in it.	A - Objective tests: The aim of the test is to measure the student's ability to recognize and absorb engineering facts. This is done using the following: - True and false questions. - Multiple selection questions. - Interview questions (blank questions) - Supplementation questions. B - Engineering tests: The objective of the test to measure the student's ability to understand the scientific material and engineering principles and the ability to recall, link and interpret this in addition to the ability to analyze data and use it in the diagnosis and solution of problems Hamddis. This is done using the following: - Test connection/open questions. -Questions that have a specific answer. C - For other tests: represented by the following: - Seminars (seminars). - Scientific lectures, oral dialogue, semester and final theoretical exams, in addition to the practical exam. - Report writing. - Field visits
Statement of Learning Outcomes	Learning Outcomes

Learn about computer technology engineering and arts	Providing the student with the skills of mastering the art of computer technology engineering

• Teaching and learning strategies •
1- Thinking strategy according to the student's ability. 2- High thinking skill strategy. 3- Critical thinking strategy in learning. 4- Brainstorming.

• Evaluation methods •
a-home works
b- Classroom tasks
C. Free Discussions

Teaching staff						
Teaching staff						
Members		**Specials recruitments/skills (if demanded)**		Specialization		Academic Rank
Employee	**Lecturer**			**Exact**	**General**	
	√			thermodynamics	Mechanical Engineering and Mechatronics	Professor Samir Saadoon Al-Jubburi
	√			Electronics	Electrical Engineering	Assist Lecturer Firas Omer Ahmed
	√				Mechanical Engineering	Assist Lecturer Ali Ali Sabir
	√			Composite	Mechanical Engineering	Assist Lecturer Hanan Mahmood

				Materials	and Mechatronics	Shukur
	√			Electronics	Electrical Engineering	Assist Lecturer Noor Jasim
	√			Renewable resources	Mechanical Engineering	Assist Lecturer Ibrahim Khalil Ibrahim

Professional Development
Mentoring new faculty members
Training and development of professors: by providing training programs and workshops for faculty members to develop their educational skills and update their academic knowledge in the field of computer technology engineering, which enhances the quality of teaching and learning in the specialization.
Professional development of faculty members
The professional development of faculty members is important to enhance their competence and improve their teaching performance. Faculty can develop their skills by attending workshops and training courses, participating in educational seminars and conferences, which also enable them to share knowledge and experiences with their colleagues in the field and use technology to improve the teaching process, innovation and improve the quality of education they provide to students.

Students are accepted in the Department of Computer Technology Engineering from graduates of the preparatory school in its scientific branch with an average of 60% and the graduation requirements are: 1- Performing the 136 hours of courses over the years of study 2- Passing the prescribed exams with a rate of 50% or more 3- Performing summer training before the final stage. 1- Presenting a graduation research in one of the topics of specialization.

The most important sources of information about the program
Iraqi public universities and international universities related to specialization

Acceptance criterion
a. Analysis of the current situation: by evaluating the current approach, analyzing its strengths and weaknesses, looking for opportunities for improvement, and identifying areas that need to be developed. In. Setting goals: It means setting the main objectives of developing the academic curriculum, which is one of the most important steps in the development of any program, where the goals can include increasing the quality of education, improving the student experience, and enhancing academic development and personal development.

c. Continuous evaluation and review: By conducting periodic evaluation and review of the curriculum and teaching methods, communicating with students and professors to collect feedback and use these observations to improve and enhance the academic curriculum.

Curriculum skills chart													
Please check the boxes corresponding to the individual learning outcomes from the program being assessed													
Learning outcomes required from the programme													
	Thinking skills			Subject-specific skills		Knowledge and understanding				Basic Or assistant	Course name	Course code	Year/level
ج4	3ج	2ج	1ج	2ب	1ب	4أ	3أ	2أ	1أ				
	√	√	√	√	√	√	√	√	√	assistant	Computer Applications	CTE02207	2nd stage
√	√	√	√	√	√	√	√	√	√	Basic	Architectu	CTE02203	

											re of microprec essors		
		√	√	√	√	√	√	√	√	Basic	Object oriented Programm ing	CTE02205	
		√	√	√	√	√	√	√	√	Basic	Electronic s	CTE02208	
	√	√	√	√	√	√	√	√	√	assistant	Mathemati cs(2)	CTE02202	
		√	√	√	√	√	√	√	√	Basic	Devices and measurme nts	CTE02204	
√	√	√	√	√	√	√	√	√	√	Basic	Digital controllers	CTE02206	
		√	√	√	√	√	√	√	√	assistant	Computer network simulators	**CTE02310**	**3rd stage**
			√	√	√	√	√	√	√	Basic	Fundamen tals of	**CTE02303**	

											control engineering		
√	√	√	√	√	√			√	√	Basic	Design of real time systems	**CTE02305**	
	√	√	√	√	√	√	√	√	√	Basic	Digital communications	**CTE02307**	
	√	√	√	√	√		√	√	√	Basic	Engineering analyses	**CTE02302**	
		√	√	√	√	√	√	√	√	Basic	Foundations of computer networks	**CTE02304**	
		√	√	√	√	√	√	√	√	Basic	Digital signal processing	**CTE02306**	
√	√	√	√	√	√	√	√	√	√	assistant	Computer networking protocols	**CTE02401**	**4th stage**
√	√	√	√	√	√			√	√	Basic	TeleCommunications systems	**CTE024**03	

	√	√	√	√	√	√	√	√	√	Basic	Security of computers and their networks	**CTE024**04	
√	√	√	√	√	√			√	√	Basic	Media computing	**CTE024**06	
	√	√	√	√	√	√	√	√	√	Basic	Information theory and coding	**CTE024**02	
√	√	√	√	√	√			√	√	assistant	project management	**CTE024**05	
√	√	√	√	√	√			√	√	Basic	Project	**CTE02308**	

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