Republic of Iraq

Ministry of Higher Education
and Scientific Research
Scientific supervision and
evaluation device



Academic program and course

2025

Introduction:

The educational program is a coordinated and organized package of courses that include procedures and experiences organized in the form of study vocabulary, the main purpose of which is to build and refine the skills of graduates, making them qualified to meet the requirements of the labor market. It is reviewed and evaluated annually through internal or external audit procedures and programs, such as the external examiner program

Academic Program Description: A brief summary of the main features of the program and its courses, indicating the skills that students are working to acquire based on the objectives of the academic program. The importance of this description is evident because it represents the cornerstone in obtaining program accreditation, and the teaching staff participates in writing it 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 changes in the educational system in Iraq, which included a description of the academic program in its traditional form (annual, semester) system, in addition to adopting the description of the academic program circulated pursuant to the letter of the Department of Studies TM3/2906 dated 5/3/2023 regarding programs that adopt the Bologna process as the basis for their work.

In this regard, we cannot but emphasize the importance of writing a description of academic programs and courses to ensure the smooth running of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a concise 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 concise summary of the most important characteristics of the course and the learning outcomes expected from the student, demonstrating whether he has made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture of the future of the academic program to be an advanced, inspiring, motivating, realistic and applicable program.

Program Mission: It briefly explains the goals and activities required to achieve them, and it also identifies the paths and directions of the program's development.

Program Objectives: These 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 required (ministry, university, college and scientific department) with the number of credit hours. Learning Outcomes: A compatible set of knowledge, skills and values acquired by the student after successfully completing the academic program. The learning outcomes for

Teaching and Learning Strategies: The strategies used by the faculty member to develop the student's teaching and learning. They are plans that are followed to achieve the learning objectives. That is, they describe all classroom and extracurricular activities to achieve the learning outcomes of the program.

each course must be determined in a way that achieves the program objectives.

Academic Program Specification Form for The Academic Year 2024 -2025

University: North Technical University

College/Institute: Technical Institute/Hawija

Department: Network and Computer Software Technologies

Data of Form Completion: 2025/1/27

Signature

Department Head Name: Assis. Prof. Dr. Suhail Najm Shahab

Signature

Dean's Assistant for scientific Affairs Name: Mohammed Ohyad 1; ej

Signature

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Quality Assurance and University Performance Division:

Assistant Letcher Hamza Omer Sadiq

Signature _____

Deans Name: Omer K. Ahmed

Republic of Iraq Ministry of Higher Education and Scientific Research Supervision and Scientific Evaluation Directorate Department of Quality Assurance and Academic Accreditation



1. Program vision

Achieving excellence and leadership in information technology related to computer networks, providing society with effective intermediate staff in computer network systems, developing their capabilities in computer software, and developing their skills in interacting and communicating with others to reach a digital society under an electronic government.

Program message

We seek to provide an outstanding education in computer networks and software according to international standards, produce creative research that serves higher education, and provide technical consultations to raise the level of community performance.

3. Program objectives

- Preparing scientifically and educationally qualified staff compatible with the market and the needs of digital development fields.
- Encouraging scientific research in theoretical and applied sciences, as well
 as supporting future research and continuous development of curricula by
 contemporary cognitive, methodological and technical innovations.
- Participating in community service through direct and continuous interaction with governmental and non-governmental institutions, providing scientific consultations, and promoting continuing education programs.

4. Programmatic accreditation

The department is newly established for the academic year 2024-2025.

Other external influences

Nothing

Required ratios	ratios% = Total units for the)/ the total requirement (Total for graduation× 100	The total	Optional	Compulsory	Requirement type
%(15-10)	(22 ÷ 112) × 100 = 19	22	4	18	University
% (22 – 16)	$(19 \div 112) \times 100 = 17$	19	0	19	Institute
% (74 – 63)	(75 ÷ 112) × 100 = 70	75	0	75	Department
% 100		116		Total Gra	duation

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Course schedule / Level 1	/ Level 1	Commence of the commence of th				7.
Decrinaments	: Course name in language		Number hours	of	number	code
superiori de la constanta de l	Arabic		Theory	The process	Units	decision
. 1900	Democracy and huma	nd human rights	2	0	7	NTU100
	English language		2	0	7	NTU101
University	Computer		1	τ	7	NTU102
(10-15) %	Arabic	b	2	0	7	NTU103
	Sports (optional)	The second secon	1	τ	7	NTU104
	French (optional)		2	0	7	NTU106
The second secon		Total university requirements units	0.00	1	8	
requirements	mathematics	Mathematics	2	0	7	HT1100
The (Institute	Mechanical Factor	Mechanical Workshop	0	E	£	HT1101
(college	Engineering drawing	Engineering Drawing	0	8	8	HT1102
	Differential and integral calculus	Calculus	2	0	7	HT1103
Ton Sales	The Ambiguity of the State of t	Total units of formation requirements (institute)	(institute	(a	10	and the second
Department	Programming in language C++	Programming C++	2	3	2	CPN100
(63-74) %	Python programming	Python Programming	2	3	2	CPN101
	Computer architecture	Computer Architecture	2	m	2	CPN102

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Calculator installation	Computer Organization	7	m	'n	CPN103
Principles of Electronics	of Principles of Electronics	2	m .	ហ	CPN 104
Computer Networking Basics	Computer Networks	2	8	ហ	CPN 105
Principles of Electronic Engineering	of Principles of Electrical Engineering	2	æ	ıs.	CPN 106
Internet of Things	Internet of Things	2	8	2	CPN 107
A Comment of the Comm	Total units of department requirements	nts	: ^	40	
the state of the s	Total units			28	

Course schedule / Level 2	ule / Level 2					
Requirement	: Course name in language	ıage	Number hours	jo .	number	code
Type	Arabic		Theory	The process	Units	decision
N 3-4-	English language	9	7	0	7	NTU200
Requirements	Computer		1	1	7	NTU201
(10-15) %	Arabic		7	0	7	NTU202
	Crimes of the Baath r	e Baath regime in Iraq	2	0	7	NTU203
4	Professional ethics		7	0	. 7	NTU204
- W		Total university requirements units	i i		10	
requirements	requirements Research project	Research Project	0	2	7	HT1200

) The (Institute	Specialized workshop	Specialized Workshop	0	3 8	3	HT1201
(16-22) %	Application project	Application Project	0	2	2	HTI202
	Occupational Safety	Vocational safety	7	0	2	HT1203
	2000	Total units requirements			6	B 1
# 2 - QH-199	Databases SQL	Databases in SQL	7	3	ıs	CPN 200
	Encryption and computer security	Cryptography and Computer Security	7	3	2	CPN 201
Department	Network Management	Networks Management	7	3	2	CPN 202
Requirements	Website design	Electronic Web Design	2	3	2	CPN 203
(63-74) %	Website programming Web	Web Site Programming	2	, o n ,	S	CPN 204
A MARKON PORTON	Programming in language VB	Visual Basic Programming	2		5	CPN 205
	Operating systems	Operating System	7	3	5	CPN 206
Total units of	Total units of department requirements	nts			35	
Total units					54	* W

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Program Specification

This academic program description provides a requisite summary of the most important characteristics of the program and the learning outcomes expected of the student to achieve, proving whether he has made maximum use of the available opportunities. It is accompanied by a description of each course within the program

1. Teaching Institution	Northern Technical University/ Hawija Technical Institute						
2.University Department/Centre	Network and Computer Software Technologies						
3.Program Title	Technical Sciences						
4. Title of Final Award	Technical Diploma						
5. The school system: Annual / Courses / Other Annual	Curriculum						
6. Accreditation	practical& Theoretical						
7. Other external influences	There is a close relationship between the labor market and the department's graduates.						
8. Date of production/revision of this specification	10-16-2024						

Aims to prepare the technical staff that will be a link between the specialist and the skilled worker. The department prepares and provides the graduate with theoretical, applied and practical information to be able to carry out the work entrusted to him.

10. Learning Outcomes, Teaching, Learning and Assessment Methods

Knowledge and Understanding

- 1- .Knows computers and computer networks
- 2- . computers and computer networks have gone through
- . the various applications of computer software and computer networks
- 4- .Defines the components of the computer
- 5- .Distinguish between different types of computer networks
- 6- Mention the tools used in connecting networks
- 7- Learn about the types of network cables
- 8- knows the internet
- 9- Learn about the different uses of the Internet
- 10- Determines how to benefit from the Internet in the educational process
- 11- Distinguish between different ways to connect to the Internet
- 12- Distinguish between browsing and internet browsing programs
- 13- .Classifies the different types of email programs
- 14- Determines how to benefit from the e-mail service in the educational process
- 15- Mention the importance of Internet searchengines
- 16- Learn the most important terms in the field of computer networks
- 17- Learn about the most important modern trends in computer networks
- 18- .Fixes some network related faults
- 19- .Suggests solutions to some network related faults
- 20- Learn about educational website design standard

Subject-specific skills

- Use of computer and Internet technologies in education and training.
- .2 Activating the relationship with the private sector in the areas of training.
- .3 Follow up the development of training plans curricula and then update the curricula.
- .4 Interacting with the labor market and community needs for rehabilitation and training.

Teaching and Learning Methods Through the presentation of a theoretical explanation with the aid of white board and 'Data Show', to illustrate syllabus (examples and exercises) and using text books Assessment methods Written examination : To assess knowledge, understanding and skills (First half of the academic year, Mid-year exam, Second half of the academic year, final exam the academic year). Oral examination: To assess knowledge, skills and intellectual functions, and attitude. 2-3-Assignments & other activities. 4-Quizzes (Shock exams). 5homwork. Thinking Skills C1. Reading, Writing, Speaking and Listening for English language C2. Apply mathematics to everyday life problems. C3. Recognize the uses of commands in programs C4. Distinguishes between design - code - run parts and use different objects in creating the programs and understand algorithms, language abilities and reasons to use Teaching and Learning Methods Lectures using white board and data show 2-Experimental part 3-Discussion about the practical application 1 -written examination oral examination quizzes 4 - homework 5- report

Please	check the box	es corresp	ondir		Curri						s fro	m the	pros	ram	being	eval	uated	
							earni											
year/lev el	Course Name	basic or option al	Co	gniti	ve go	als			spec			notio value			skil emp	oloya	al and ication her sl ed to bility onal	d n kills and
			A 1	A 2	A 3	A 4	B	B 2	B 3	B 4	C	C 2	C 3	C 4	D	D 2	D 3	D 4
FIRST	Computer	primar y	/	~	~	~	-	~	1	~	/	~	~	1	/	V	~	~
	Programmin g language C++	primar y	V	1	-	-	~	-	-	V	~		-	~	~	/	~	-
	Computer Assembly	primar y	r	1	-	~	-	1	~	-	1	1	~	~	r	~	1	-
	Computer Networking Basics	primar y	~	-	~	~	~	/	1	/	~	/	~	-	~	-	~	-