

Ministry of Higher Education and Scientific Research
Scientific supervision and evaluation device
Department of Quality Assurance and Academic Accreditation
Accreditation Department



Academic program and course description

Description of the academic program

University name: Northern Technical University

College/Institute: Technical Institute/Al-Dur

Scientific Department: Department of Pharmaceutical Technology

Name of the academic or professional program: Pharmacy Technician

Name of final degree: Technical Diploma in Pharmacy


Academic system: courses

Description preparation date: 27 / 1 /2025

Date of filling the file: 27 / 1 /2025

the signature : 

Name of scientific assistant: Assist.
Prof. Dr. Hanan Shehab Ahmed

the signature : 

Name of department head: Assist.
Prof. Dr. Ansam Hussein Ali

Check the file by

Quality Assurance and University Performance Division

Name of the director of the Quality Assurance and University Performance

Division: – Assist. Lec. Hayder Ali Mohssn

Signature:- 



Assist. Prof. Dr. Maha Elttayef Jasim
Dean's endorsement

1. Program vision

Striving to secure and implement educational, pedagogical and humanitarian programs in order to raise skills and build the capabilities of educational outcomes in pharmaceutical education, training and scientific research to develop pharmaceutical services provided to beneficiaries.

٢. Program message

Preparing administrative technical cadres to provide the best pharmaceutical services to the community through the quality of graduates of this specialty and ensuring professional and humane dealing

1. Program objectives

Preparing qualified technical cadres to work in the field of clinical and pharmaceutical pharmacy under the supervision of a pharmacist and in the field of pharmaceutical and chemical industries under the supervision of a pharmacist or chemist. Preparing technical staff capable of linking theoretical material with practical skills.

Programmatic accreditation

Not found

Other external influences

There is a relationship between the medical department and the health sector through training and follow-up

Program structure

Program Structure	Number of Courses	Study Unit	Percentage	Notes *
University requirements	٩	١٨	١٥,٧	Basic course
Institute requirements	٥	١٤	١٢,٢	Basic course
Department requirements	٢٥	٨٢	٧١,٩	Basic course
summer training	-	-	-	Interpolation

*Notes may include whether the course is core or elective.

Program description				
Year/level	Course code	Course name	Credit hours	
2024 / 2023 – First level	NTU 100	Human Rights and Democracy	0	2
2024 / 2023 – First level	NTU 101	English language	0	2
2024 / 2023 – First level	NTU 102	Computer Principles	1	1
2024 / 2023 – First level	NTU 104	Arabic Language	0	2
2024 / 2023 – First level	NTU 105	Sport(optional)	1	1
2024 / 2023 – First level	NTU 107	French Language (optional)	٠	٢
2024 / 2023 – First level	TID 106	Medical Physiology	2	2
2024 / 2023 – First level	TID 108	Safety in Lab & workshop	0	2
2024 / 2023 – First level	TID 109	Medical terminology	0	2
2024 / 2023 – First level	TID 110	Anatomy	2	2
2024 / 2023 – First level	PHT 112	Principles Pharmacy	2	2
2024 / 2023 – First level	PHT 113	Basics Of Organic Chemistry	2	2

2024 / 2023 – First level	PHT 114	Analytical Chemistry	2	2
2024 / 2023 – First level	PHT 115	Pharmaceuticals Calculation	2	2
2024 / 2023 – First level	PHT 116	Organic Chemistry	2	2
2024 / 2023 – First level	PHT 120	Microbiology	2	2
2024 / 2023 – First level	PHT 117	Biochemistry	2	2
2024 / 2023 – First level	PHT 118	First Aids(optional)	0	1
2024 / 2023 – First level	PHT 119	psychology(optional)	0	1
2024 / 2023 – Second level	NTU 203	The crimes of the Baath regime in Iraq	0	2
2024 / 2023 – Second level	NTU 202	Arabic	0	2
2024 / 2023 – Second level	NTU 201	Professional Ethics	0	2
2024 / 2023 – Second level	TID 204	Statistics	0	2
2024 / 2023 – Second level	PHT 203	Pharmaceutics	2	2
2024 / 2023 – Second level	PHT 204	Industrial Principles	2	2
2024 / 2023 – Second level	PHT 205	Principles of Pharmaceutical chemistry	2	2
2024 / 2023 – Second level	PHT 206	Principles of Drugs	2	2
2024 / 2023 – Second level	PHT 207	Medicinal plants and Natural Products	2	1
2024 / 2023 – Second level	PHT 208	Basics of Therapeutics Application	2	1
2024 / 2023 – Second level	PHT 209	Toxicology	0	2
2024 / 2023 – Second level	PHT 211	Pharmaceutical Formulation	2	2
2024 / 2023 – Second level	PHT 212	Industrial Pharmacy	2	2
2024 / 2023 – Second level	PHT 213	Pharmaceutical chemistry	2	2
2024 / 2023 – Second level	PHT 214	Pharmacology	2	2
2024 / 2023 – Second level	PHT 215	Proposal	2	0

2024 / 2023 – Second level	PHT 216	Therapeutics Application	2	1
2024 / 2023 – Second level	PHT 210	Pharmacognacy	2	1
2024 / 2023 – Second level	PHT 217	Community Health	0	1
2024 / 2023 – Second level	PHT 218	Commucation Skills	0	1

2.Expected learning outcomes of the program	
Knowledge	
1	The student's ability to apply knowledge in the medical fields in general and the field of pharmacy in particular
2	The student's knowledge of the professional and ethical principles and responsibilities of the field of specialization
3	Knowing the pharmacological effect of different types of drugs and studying their effect and effectiveness within the body.
4	Enabling the student to assist the doctor in diagnostic and therapeutic procedures during the implementation of health programs.
Skills	
١	Preparing students to work and integrate into multi-disciplinary teams.
٢	Enabling the student to acquire skills in methods of compounding and preparing medicines.
٣	Preparing students to use modern technologies, skills, and specialized tools in the field of pharmacy.
٤	Skill in maintaining and operating pharmaceutical equipment.
Value	
١	The student's interest in communicating effectively with those concerned with the field of specialization.
٢	Developing the student's ability to benefit from available means.
٣	Developing the student's ability to perform daily duties.
٤	Love of knowledge and benefiting from knowledge.

9 . Teaching and learning strategies
(Theoretical lectures / discussion and dialogue / practical lectures / field)

**visits / discussion circles / laboratories / office activities / solving examples /
(graduation project / summer training)**

10 . Evaluation methods

**(Oral exams / written exams / weekly reports / daily attendance / semester)
(and final exams)**

11 . The teaching staff

The teaching staff

Academic rank	specialization		special requirements/skills (if any)		preparation of the teaching staff	
	General	private			staff	lecturer
Assis. Prof.	Chemistry	Clinical chemistry			staff	
Assis. Prof.	Biology	physiology			staff	
Teacher	Chemistry	biochemistry			staff	
Teacher	Biology	Microbiology			staff	
Assist. teacher	Chemistry	Analytical chemistry			staff	

Professional development

Orienting new faculty members

Involving students in discussions, scientific seminars and training courses

Professional development for faculty members

Conducting field visits to the public and private sectors and universities within the specialty to review the field development in the field of specialization

12. Acceptance criterion

The admission criteria for the morning study are considered within the central admission plan, which is approved by the Ministry of Higher Education and Scientific Research, or the admission criteria for the evening study are identical to the actual admission plan for the morning study.

13. The most important sources of information about the program

Programs and resources are approved by the sectoral committees at the university and are periodically updated through the annual meetings of the relevant committees.

14. Program development plan

Using new concepts in the field of pharmacy and using electronic devices to display information

Level	Code of the course	name or course	basic or optional	Cognitive objectives				The program's skill objectives				Affective goals and value				Transferred general and qualification skills (other skills related to employability and personal development)			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
First level	NTU 100	Human Rights and Democracy	Basic	X	X	X	X	X	X	X		X	X	X		X	X		
	NTU 101	English language	Basic	X	X			X	X			X	X	X		X	X		
	NTU 102	Computer Principles	Basic	X	X	X		X	X			X	X	X		X	X		
	NTU 104	Arabic Language	Basic	X	X			X	X			X	X	X		X	X		
	NTU 105	Sport	Basic	X	X	X		X	X	X	X	X	X	X		X	X		
	TID 106	Medical Physiology	Basic	X	X	X	X	X	X			X	X	X		X	X		
	TID 108	Safety in Lab & workshop	Basic	X	X	X		X	X	X		X	X	X		X	X		
	TID 109	Medical terminology	Basic	X				X	X			X	X	X		X	X		

	TID 110	Anatomy	Basic	X	X	X		X				X	X	X		X	X		
	PHT 112	Principles Pharmacy	Basic	X	X			X	X			X	X	X		X	X		
	PHT 113	Basics Of Organic Chemistry	Basic	X	X			X	X			X	X	X		X	X		
	PHT 114	Analytical Chemistry	Basic	X	X			X	X			X	X	X		X	X		
	PHT 115	Pharmaceuticals Calculation	Basic	X	X			X	X			X	X	X		X	X		
	PHT 116	Organic Chemistry	Basic	X	X	X		X	X			X	X	X		X	X		
	PHT 120	Microbiology	Basic	X	X			X	X			X	X	X		X	X		
	PHT 117	Biochemistry	Basic	X	X			X	X			X	X	X		X	X		
	PHT 118	First Aids	optional	X	X			X	X			X	X	X		X	X		
Second level	NTU 203	The crimes of the Baath regime in Iraq	Basic	X	X	X		X	X			X	X	X		X	X		
	NTU 202	Arabic	Basic	X	X	X		X				X	X	X		X	X		
	NTU 201	Professional Ethics	Basic	X	X	X		X	X			X	X	X		X	X		
	TID 204	Statistics	Basic	X	X	X	X	X	X			X	X	X		X	X		
	PHT 203	Pharmaceutics	Basic	X	X	X	X	X				X	X	X		X	X		
	PHT 204	Industrial Principles	Basic	X	X	X		X				X	X	X		X	X		
	PHT 205	Principles of Pharmaceutical chemistry	Basic	X	X		X	X				X	X	X		X	X		
	PHT 206	Principles of Drugs	Basic	X	X		X	X				X	X	X		X	X		

PHT 207	Medicinal plants and Nutural Products	Basic	X	X		X	X				X	X	X		X	X		
PHT 208	Basics of Theraputics Application	Basic	X	X		X	X				X	X	X		X	X		
PHT 209	Toxicology	Basic	X	X	X	X					X	X	X		X	X		
PHT 211	Pharmaceutical Formulation	Basic	X	X		X	X				X	X	X		X	X		
PHT 212	Industrial Pharmacy	Basic	X	X		X	X				X	X	X		X	X		
PHT 213	Pharmaceutical chemistry	Basic	X	X		X	X				X	X	X		X	X		
PHT 214	Pharmacology	Basic	X	X		X	X				X	X	X		X	X		
PHT 210	Proposal	Basic	X	X		X	X				X	X	X		X	X		
PHT 215	Theraputics Application	Basic	X	X	X	X					X	X	X		X	X		
PHT 216	Pharmacognacy	Basic	X			X					X	X	X		X	X		
PHT 217	Community Health	optiona l	X			X					X	X	X		X	X		