

Ministry of Higher Education and Scientific
Research Scientific Supervision and
Evaluation Authority Quality Assurance and
Academic Accreditation Department
Accreditation Section



Academic Program and Course Description Guide 2025

Ministry of Higher Education & Scientific Research
Supervision and Scientific Evaluation Directorate
Quality Assurance and Academic Accreditation
International Accreditation Dept.

Academic Program Specification Form for The Academic Year 2025

University: Northern Technical University
Faculty/Institute: Al-dour Technical Institute

Department: Department of Prosthesis

Name of the academic or professional program: Technical Diploma in Prosthesis

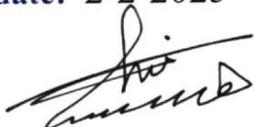
Name of the final certificate: Technical Diploma in Prosthesis

Academic system: Curriculum system

File preparation date: 2-2-2025

File filling date: 2-2-2025

Signature



The name of the head of the department
Assist. Prof. Dr. Hind Tariq Hamad

Signature



Dean's Assistant For Scientific Affairs
Assist. Prof. Dr. Hanan Shahb Ahmad

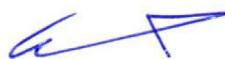
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Quality Assurance and University Performance Division

Name of the director of the Quality Assurance and University Performance Division:

Asst. Lecturer Hayder Ali Mohssn

Signature



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

Vision

The Department of Prosthetics seeks to meet the needs of patients from prosthetics and supports using high-quality materials and is an effective way to meet the community's need for specialized cadres in supporting various health, research and educational institutions.

Program

The Department of Prosthetics was established according to the community's need for specialized service cadres with scientific specifications and modern technical standards and preparing those cadres to work in various health and research institutions as well as supporting the private sector.

Aims

- 1- The department aims to graduate technical staff capable of working in the field of artificial limbs, conducting routine examinations, general chemical tests, examining people with needs and working in private workshops.
- 2- Manufacturing prosthetic limbs and prosthetic supports to meet the needs of the individual so that they can perform daily activities better.
- 3- Providing psychosocial support to patients with limb loss

Program accreditation

Nothing

Other external influences

Nothing

Program structure

comments *	percentage	Study unit	Number of courses	Program structure
Basic course	20.22%	18	9	Enterprise requirements
	15.73%	14	5	College requirements
	64.04%	57	16	Department requirements
			Yes	summer training
			Nothing	Other

Program description		level one		
Hours Approved		Name of the course	Code of the course	Year / Level
practical	Theoretical			
level one				
-	2	Democracy and human rights	NTU 100	First level - first semester
-	2	English Language	NTU 101	
1	1	computer	NTU 102	
2	2	Physiology	TIDO 106	
-	2	Medical terminology	TIDO 109	
3	2	Manufacture prosthesis below knee joint	IPT 110	
2	1	Anatomy of lower limb	IPT 114	
2	1	Biomechanics of prosthetics	IPT 112	
-	2	Arabic Language	NTU 103	First level - second semester
1	1	Sports	NTU 104	
-	2	France Language	NTU 105	
2	2	Anatomy	TIDO 107	
-	2	Occupational safety	TIDO 108	
-	2	Locomotors diseases	IPT 113	
3	2	Manufacture prosthesis above knee joint	IPT 111	
2	1	Microbiology	IPT 115	
2	1	Parasitology	IPT 116	

Second Level				
-	2	crimes of the Baath Party in Iraq	NTU 203	The second level - the first semester
-	2	Biostatistics	TIDO 205	
6	2	upper limb orthosis manufacturing	IPT 207	
2	1	Manufacturing of upper limb prosthesis	IPT 209	
-	2	Locomotors diseases	IPT 210	
-	2	properties Materia	IPT 211	
2	1	Physiotherapy methods	IPT 215	
2	1	Parasites	IPT 216	
-	2	English Language	NTU 200	
1	1	computer	NTU 201	
-	2	Arabic Language	NTU 202	
-	2	Professional ethics	NTU 204	
6	2	lower limb orthosis manufacturing	IPT 206	
2	1	Biomechanics of orthosis	IPT 208	
2	1	Anatomy of upper limbs and trunk	IPT 212	
-	2	Biomaterials	IPT 213	
2	-	Research project	IPT 214	

The expected learning outcomes of the program

A- Knowledge

How to deal with patients with amputated legs	A-1
The ability to manufacture lower and upper limbs	A-2
Identify the various types of Lower limbs	A-3

B- skill

Ability to Interact with people specialized in the field of stem manufacturing.	B 1
Ability to put problems into perspective and find appropriate solutions.	B-2
Proficiency in special die casting and leg carving method	B-3
Efficiency in dealing with patients while fitting the leg	B-4

C- value

Promoting the spirit of cooperation between specialists and working as one team with the same specialty	C-1
The ability to develop oneself and update information in the field of specialization and in the long term	C-2
The optimal use of all possible means to keep pace with the modernity of the specialization	C-3
Integrating learning at the global and local levels to develop appropriate solutions to the problems presentence	C-4

Teaching and learning strategies

Theoretical lectures / discussion and dialogue / practical lectures / field visits / discussion circles / laboratories / office activities / solving examples / graduation project / summer training

Evaluation methods

Oral and written exams/observation and cumulative record

education institution						
Faculty members						
Preparing the teaching staff		Special requirements/skills (if any)		Specialization		Scientific rank
lecturer	angel			private	general	
	angel			Heredity	agriculture	lecturer
	angel			Production and minerals	Mechanical Engineering	assistant teacher
	angel			physiology	Life sciences	assistant teacher
lecturer				parasites	Life sciences	assistant teacher
lecturer				fractures	Bones and joints	Specialist Physician
lecturer				physiology of bones and joints	physiology of bones and joints	Specialist Physician
lecturer				Prosthetics	Prosthetics	Diploma in Prosthetics
lecturer				Prosthetics	Prosthetics	Diploma in Prosthetics
Lecturer				Prosthetics	Prosthetics	Diploma in Prosthetics
lecturer				Prosthetics	Prosthetics	Diploma in Prosthetics
	angel			physiology	Life sciences	assistant teacher

Professional development
Directing new faculty members to follow up on the annual updates of the study plan and the necessity of updating the curricula in a manner consistent with the plan announced by the scientific department.
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 Involving students in discussions, scientific seminars and training courses

Acceptance standard
The admission criteria for morning study are within the central admission plan, which is approved by the Ministry of Higher Education and Scientific Research.
The most important sources of information about the program
Programs and resources are approved by the sectoral committees and are periodically updated through the annual meetings of the relevant committees.
Program development plan
Using new concepts and modern methods in the manufacture of limbs and supports through the participation of specialized professors in the scientific department in scientific workshops, seminars, and twinning work with rehabilitation hospitals specializing in the manufacture of limbs and supports.

General skills and qualification/Transferable (other skills related to employability and personal development)				Emotional goals And value				The program's skill objectives				Cognitive goals				Essential or optional	Course Code	Course Name	Academic level
D4	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1				
		X	X	X	X	X	X	X	X	X	X		X	X	X	Basic	IPT 110	Manufacture prosthesis below knee joint	The first
		X	X	X	X	X	X	X	X	X	X		X	X	X	Basic	IPT 112	Biomechanics of prosthetics	
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	Basic	IPT 113	Locomotors Diseases	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	TIDO 109	Medical terminology	
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	Basic	IPT 114	Anatomy of the lower extremities	
		X	X	X	X	X	X	X	X	X	X		X	X	X	Basic	TIDO 106	Physiology	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	NTU 101	English Language	
		X	X	X	X	X	X	X	X	X	X	X			X	Basic	NTU 102	computer	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	NTU 100	Democracy and human rights	
		X	X	X	X	X	X	X	X	X	X	X			X	optional	NTU 104	Sports	
		X	X	X	X	X	X	X	X	X	X	X			X	Basic	TIDO 107	Anatomy	
		X	X	X	X	X	X	X	X	X	X		X		X	Basic	TIDO 108	Safety of laboratories and workshops	
		X	X	X	X	X	X	X	X	X	X		X		X	Basic	IPT 111	Manufacture prosthesis above knee joint	
		X	X	X	X	X	X	X	X	X	X		X		X	optional	IPT 115	Microbiology	
		X	X	X	X	X	X	X	X	X	X		X		X	optional	IPT 116	Parasites	
		X	X	X	X	X	X	X	X	X	X				X	Basic	NTU 103	Arabic Language	
		X	X	X	X	X	X	X	X	X	X		X	X	X	Basic	IPT 207	Upper limb orthosis Manufacturing	the second
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	IPT 208	Biomechanics of orthosis	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	IPT 209	Manufacturing of upper limbs prosthesis	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	IPT 210	Locomotors Diseases	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	IPT 211	Material properties	
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	Basic	IPT 212	Anatomy of the upper limbs and trunk	
		X	X	X	X	X	X	X	X	X	X				X	Basic	IPT 214	Project Research	
		X	X	X	X	X	X	X	X	X	X				X	Basic	NTU 204	Professional ethics	
		X	X	X	X	X	X	X	X	X	X		X		X	Basic	NTU 201	computer	
		X	X	X	X	X	X	X	X	X	X		X		X	Basic	NTU 202	Arabic Language	
		X	X	X	X	X	X	X	X	X	X	X	X		X	Basic	NTU 203	The crimes of the Baath regime in Iraq	
		X	X	X	X	X	X	X	X	X	X	X	X		X	Basic	TIDO 205	statistics	
		X	X	X	X	X	X	X	X	X	X	X			X	Basic	IPT 206	Manufacture of orthotics for the lower limbs	
		X	X	X	X	X	X	X	X	X	X	X	X		X	Basic	IPT 213	Biomaterials	
		X	X	X	X	X	X	X	X	X	X	X			X	optional	IPT 215	Physiotherapy methods	
		X	X	X	X	X	X	X	X	X	X	X			X	optional	IPT 216	Parasites	