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

«Colleges and Institutes Academic Program Description Form»

University: Northern Technical University
Faculty / Institute: - Al – Dour Technical Institute
Scientific Department: - Department of Technical Prosthetics and Orthotics
Date of filling out the file: **7/4/2024**
Date of preparing the description: **7/4/2024**

Signature: -

The name of the head of the department: -.

Dr. Hassan Mahmood Hassan

Date: - 7/4/2024

Signature: -

The name of the scientific

Dr. Hanan Shihab Ahmed

Date: - 7/4/2024

Check the file by

Quality Assurance and University Performance Division

Name of the director of the Quality Assurance and University Performance Division: - Haider Ali Muhsin

Dating:- 7/4/2024

Signature:-

Dean's endorsement

Description of the academic program

This description of the academic program must provide a necessary summary of the most important characteristics program and the learning outcomes that the student is expected to achieve, demonstrating whether the has made the most of the available opportunities .it is a companied by a description of each course within the program.

1- Vision the program
The Department of Technical Prosthetics and Orthotics represents an effective means of meeting the community's need for specialized services in supporting various health, research and educational institutions, in addition to investing the teaching Staff and students in primary and higher theoretical and applied scientific research and studies, as well as education, awareness and health and scientific mobilizationWithin future foundation in line with modern developments. to acquire high technical and professional expertise and harness it scientifically according to a systematic perspective.

2- Program message
A Department of Technical Prosthetics and Orthotics was established in accordance with the community's need for specialized service cadres with scientific specifications and modern technical standards, and prepare these cadres to work in important health and research institutions, as well as support the private sector , knowing that the department has a clear future mission with high ambition that seeks to provide the best services and develop the teaching and student staff in the fields of scientific and cognitive research and open postgraduate studies for the university's specialized credit, as well as community services and expanding the horizons of scientific cooperation with relevant corresponding departments in order to achieve integration.
3- Aims of Program
The department aims to graduate technical personnel capable of working in The Department of Technical Prosthetics and Orthotics and procedure examination routine and general chemical.

4- Program accreditation
nothing

5- Other external influences
nothing

6- 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
				Other

7- Program description

hoursApproved		name The decision	Code The decision	stage Scholarship
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	NTU 103	First level - second semester
1	1	Sports Language	NTU 104	

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	Medical physics	IPT 116	
Second Level				
-	2	crimes of the Baath Party in Iraq	NTU 203	The second level - the first semester
-	2	Biostatics	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	NTU 200	The second level - the second semester
1	1	the computer	NTU 201	
-	2	Arabic	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	

8-The expected learning outcomes of the program	
A- Cognitive objectives	
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- The program's skill objectives	
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- Emotional and value goals	
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**
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 and written exams/observation and cumulative record))**	

11-education institution						
Faculty members						
Preparing the teaching staff		**Special requirements/skills (if any)**		**Specialization**		**Scientific rank**
lecturer	**angel**			**private**	**general**	
	angel			physiology	Life sciences	Assistant Professor
	angel			Production and minerals	Mechanical Engineering	assistant teacher
	angel			physiology	Life sciences	assistant teacher
lecturer				parasites	Life sciences	assistant teacher
	angel			Genetic Engineering	agriculture	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

12-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.
13- 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.
14- 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.

15- Curriculum skills chart

General skills and qualificationHTransferable (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	
D4	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B 1	A4	A3	A2	A1				
		X	X	X	X	X	X	X	X	X	X		X	X	X	Basic	IPT 110	Manufacture limbsTknee	
		X	X	X	X	X	X	X	X	X	X		X	X	X	Basic	IPT 112	Biomechanic of prosthetics	
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	Basic	IPT 113	Diseases of th musculoskele system	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	TIDO 109	Medical term	
		X	X	X	X	X	X	X	X	X	X	X	X	X	X	Basic	IPT 114	Anatomy of t 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	
		X	X	X	X	X	X	X	X	X	X	X			X	Basic	NTU 102	the computer	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	NTU 100	Democracy a human rights	
		X	X	X	X	X	X	X	X	X	X	X			X	my choice	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 worksho	
		X	X	X	X	X	X	X	X	X	X		X		X	Basic	IPT 111	Fabrication c limbs above t knee	
		X	X	X	X	X	X	X	X	X	X		X		X	my choice	IPT 115	Microbiology	
		X	X	X	X	X	X	X	X	X	X		X		X	my choice	IPT 116	Medical physics	
		X	X	X	X	X	X	X	X	X	X				X	Basic	NTU 103	Arabic	
		X	X	X	X	X	X	X	X	X	X		X	X	X	Basic	IPT 207	Manufacture orthotics for the upper lim	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	IPT 208	Biomechanic of supports	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	IPT 209	Manufacturi of replaceme for the upper limbs	
		X	X	X	X	X	X	X	X	X	X			X	X	Basic	IPT 210	Diseases of th musculoskele system	
		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 t upper limbs and trunk	
		X	X	X	X	X	X	X	X	X	X				X	Basic	IPT 214	Graduation Project	
		X	X	X	X	X	X	X	X	X	X				X	Basic	NTU 204	Professional ethics	

The first

the second

		X	X	X	X	X	X	X	X	X	X		X		X	Basi	NTU 201	the computer
		X	X	X	X	X	X	X	X	X	X		X		X	Basi	NNTU 20	Arabic
		X	X	X	X	X	X	X	X	X	X	X	X		X	Basi	NTU 203	The crimes o the Baath regime in Ira
		X	X	X	X	X	X	X	X	X	X	X	X		X	Basi	TIDO 205	Life statistics
		X	X	X	X	X	X	X	X	X	X	X			X	Basi	IPT 206	Manufacture orthotics for the lower lim
		X	X	X	X	X	X	X	X	X	X	X	X		X	Basi	IPT 213	Biomaterials
		X	X	X	X	X	X	X	X	X	X	X			X	my choic	IPT 215	Physiotherap methods
		X	X	X	X	X	X	X	X	X	X	X			X	my choic	IPT 216	parasites