

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))

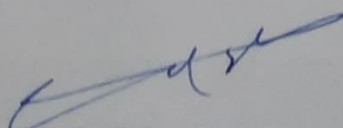
University: Northern Technical University

Faculty / Institute: - Al – Dour Technical Institute

Scientific Department: - **prosthetics**

Date of filling out the file: 8/9/2021

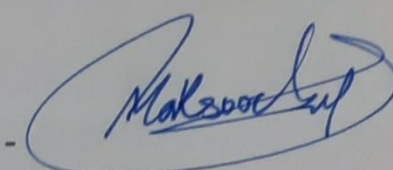
Signature: -



The name of the head of the department: -

Lecturer.Dr. Salah Fadel Abdel-Jabbar

Signature: -



The name of the scientific assistant: -

Assist.Prof Dr. Maksoud A. Mahmoud

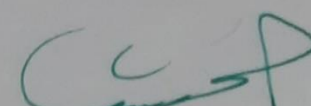
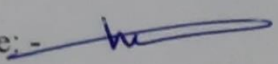
Check the file by

Quality Assurance and University Performance Division

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

Assist.Lec.Haidar Ali M.

Signature: -



Assist.Prof.Dr.Maha Elttayef Jasim

Dean's endorsement

This academic program description provides a brief summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating whether he or she has made the maximum benefit of the available opportunities. It is accompanied by a description of each syllabus within the program.

Link	Paragraph	T
https://dti.ntu.edu.iq/ar/main_ar	Website link	1
https://dti.ntu.edu.iq/ar/%d8%a7%d9%84%d8%b3%d9%8a%d8%b1%d8%a9-%d8%a7%d9%84%d8%b0%d8%a7%d8%aa%d9%8a%d8%a9-%d9%84%d9%84%d9%83%d8%a7%d8%af%d8%b1-%d8%a7%d9%84%d8%aa%d8%af%d8%b1%d9%8a%d8%b3%d9%8a/	Faculty CVs link	2
https://dti.ntu.edu.iq/ar/%d8%a7%d9%84%d8%a7%d9%82%d8%b3%d8%a3-%d8%a7%d9%84%d8%b7%d8%a8%d9%8a%d8%a9-7%d9%85	Lectures Link	3
https://dti.ntu.edu.iq/ar/%d8%b1%d9%88	Other links for Dept. works	4
https://dti.ntu.edu.iq/ar/%D8%A7%D9%84%D8%A7%D9%82%D8%B3%D8%A7%D9%85-%D8%A7%D9%85	Academic Dept.	5

Study plan for the year (2021

<p><u>84%D8%B7%D8%A8%D9%8A%D8%A9/%D9%82%D8%B3%D9%85-%D8%A7%D9%84%D8%A7%D8%B7%D8%B1%D8%A7%D9%81-%D8%A7%D9%84%D8%B5%D9%86%D8%A7%D8%B9%D9%8A%D8%A9</u></p>	<p>Description In Arabic along with the vision and messege</p>	
<p>https://dti.ntu.edu.iq/department-of-prosthetics/ _</p>	<p>Department of prosthetics</p>	<p>6</p>

الجامعة التقنية الشمالية				المعهد : التقني الدور		القسم: الاطراف الصناعية	
المستوى الأول							
نوع المتطلب	اسم المقرر	باللغة العربية	باللغة الانكليزية	عدد الساعات النظرية	عدد الساعات العملية	عدد الوحدات	المعهد ان وجد
متطلبات الجامعة	حقوق الانسان	Human Rights	1	-	1	NTU 100	
	الديمقراطية	Democracy	1	-	1	NTU 106	
	اللغة العربية	Arabic Language	2	-	2	NTU 104	
	اللغة الانكليزية	English Language	2	-	2	NTU 101	
	مبادئ الحاسوب (1)	Computer Principles (1)	1	2	3	NTU 102	
	مبادئ الحاسوب (2)	Computer Principles (2)	1	2	3	NTU 103	NTU 102
	الرياضة (اختياري)	Sport	1	1	2	NTU 105	يتم اختبار مادة واحدة فقط
9 وحدة اجباري + 2 وحدة اختياري	اللغة الفرنسية(اختياري)	French language	2	-	2	NTU 107	
	مجموع وحدات الجامعة		9	5	14		
	علم وظائف الأعضاء	Physiology	2	1	3	TIDO 106	
	المصطلحات الطبية	Medical Terminology	2	-	2	TIDO 109	
	تشريح	Anatomy	2	1	3	TIDO 107	
	سلامة المختبرات والورش	Occupational safety	2	-	2	TIDO 108	
	مجموع وحدات المعهد		8	2	10		
متطلبات المعهد 10 وحدة اجبارية	تصنيع الاطراف ما تحت الركبة	Manufacture prosthesis below knee joint	2	3	5	IPT 110	
	أمراض الجهاز الحركي 1	Locomotors diseases 1	2	-	2	IPT 113	
	تشريح الاطراف السفلى	Anatomy of lower limb	1	1	2	IPT 115	
	تصنيع الاطراف ما فوق الركبة	Manufacture prosthesis above knee joint	2	3	5	IPT 111	
	بايو ميكانيكية الاطراف الصناعية	Biomechanical of	2	1	3	IPT 112	
	الأحياء المجهرية (اختياري)	Microbiology	2	1	3	IPT 117	يتم اختبار مادة واحدة فقط
	طفيليات(اختياري)	Parasitology	2	1	3	IPT 118	
17 وحدة اجبارية + 3 وحدة اختيارية	مجموع وحدات القسم العلمي		11	10	21		
	المجموع		28	17	45		
المستوى الثاني							
نوع المتطلب	اسم المقرر	باللغة العربية	باللغة الانكليزية	عدد الساعات النظرية	عدد الساعات العملية	عدد الوحدات	المعهد ان وجد
متطلبات الجامعة 7 وحدة اجبارية	اللغة الانكليزية 2	English Language 2	2	-	2	NTU200	
	اخلاقيات المهنة	Professional Ethics	2	-	2	NTU201	-
	تطبيقات الحاسبة(2)	Computer Applications	1	2	3	IPT 215	
	مجموع وحدات الجامعة		5	2	7		
متطلبات معهد 4وحدات 2اجباري +2اختياري	الاحصاء الحياتي	Biostatics	2	-	2	TIDO202	
	مبادئ السلامة المهنية (اختياري)	Occupational safety principles	2	-	2	TIDO203	يتم اختبار مقرر واحد فقط
	الادارة الصحية (اختياري)	Health Administration	2	-	2	TIDO204	
	مجموع وحدات المعهد		4	0	4		
متطلبات القسم التخصصية (35 وحدة)	تصنيع المقومات للاطراف السفلى	lower limb orthosis	2	6	8	IPT 203	
	تصنيع المقومات للاطراف العليا	upper limb orthosis	2	6	8	IPT 204	
	الميكانيك الحيوي 2	biomechanics 2	2	1	3	IPT 205	
	تصنيع البدائل للاطراف العليا	Manufacture of Upper Limb prosthesis	1	2	3	IPT 213	
	أمراض الجهاز الحركي 2	Locomotors diseases 2	2	-	2	IPT 207	
	خواص مواد	Properties of materials	1	-	1	IPT 211	
	تشريح الاطراف العليا والجذع	Anatomy of Upper Limb	1	2	3	IPT 209	
	مشروع التخرج 1	Proposal 1	-	2	2	IPT212	
	مشروع التخرج 2	Proposal 2	-	2	2	IPT216	IPT212
	طرق العلاج الطبيعي(اختياري)	Physiotherapy methods	2	1	3	IPT217	يتم اختبار مادة واحدة فقط
	طفيليات(اختياري)	Parasites	2	1	3	IPT214	
	مجموع وحدات القسم العلمي		13	22	35		
	المجموع		22	24	46		

Academic program description

This academic program description provides a brief summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating whether he or she has made the maximum benefit of the available opportunities. It is accompanied by a description of each syllabus within the program.

NTU/ Al- Dor Technical Institute	Educational establishment	1
prosthetics	Center /Department	2
anufacture of prostheses for the upper limbs T 213	Academic or Professional program name	3
Technical Diploma in Prosthetics	Final certificate name	4
syllabuses	Academic system: Annual/ syllabuses/ Other	5
)WFME (World Federation for Medical Education	Accredited certification programme	6
Practical training in state institutions, conferences and seminars	Other external stimuli	7
2021/9/8	Description date	8
Academic program goals		9
Required program outcomes and methods of teaching, learning and assessment -10		
Required program outcomes and teaching, learning and assessment		
A- Cognitive goals		
How to deal with leg amputees		A-1
Ability to manufacture lower limb prostheses		A-2
Recognize the various types of lower limbs prostheses		A-3
Program skill goals		
The ability to interact with professionals in prosthetic legs manufacturing		B 1
The ability to identify problems and find suitable solutions		B-2
Proficiency in casting special molds and leg carving method		B-3

Proficiency in dealing with patients during leg fitting	B-4
Methods of teaching and learning Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training	
Evaluation modalities ((oral exams / written exams / weekly reports / daily attendance / semester and final exams))	
C- Emotional and moral goals	
Creating a spirit of cooperation between specialists and working as one team with the same specialty	C-1
The ability to self-develop and update information in the field of specialization and in the long term	C-2
Optimal use of all possible means to keep pace with the novelty of specialization	C-3
merge with learning at the global and local level to develop appropriate solutions to the problems at hand	C-4
Methods of teaching and learning / Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training	
Evaluation modalities ((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
Improve their discussion skills	D-1
Raise their research perceptions and transfer the student from the education stage to learning and then manufacturing and production	D-2

Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*

the internet	Books, electronic references and websites
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Curriculum development plan	11
<p>Developing educational curricula that are compatible with the labor market</p> <p>Holding seminars and scientific conferences aimed at updating the curricula -</p> <p>Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization</p>	

Course description form

This academic program description provides a brief summary of the most important program characteristics and learning outcomes expected of the student, demonstrating whether he or she has made the most of the available opportunities. It is accompanied by a description of each course within the program

Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
Biomechanics of Prosthetics IPT 112	The name of the academic or professional program	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical Education WFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10 A- Cognitive goals		

Getting to know deviation method	A-1
To know how to correct deviation	A-2
The ability to study and analyze the strength and stress on the limbs at different levels	A-3
B- The program's skill goals	
The ability to master angles and deviations when manufacturing limbs.	B 1
.The ability to define problems and find appropriate solutions	B-2
The ability to use modern means and modern tools specialized in manufacturing	B-3
Efficiency in distributing stress on the amputated limb	B-4
Methods of teaching and learning	
Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training	
Evaluation modalities	
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))	
C- Emotional and moral goals	
Creating a spirit of cooperation between specialists and working as one team with the same specialty	C-1
The ability to self-develop 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 specialization	C-3
merge with learning at the global and local level to develop appropriate solutions to the problems at hand	C-4
Methods of teaching and learning	
Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training	

Evaluation modalities ((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal development)	
Improve their discussion skills	D-1
, Raising their research perceptions and transferring students from the teaching stage to learning then manufacturing and production	D-2

Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*
the internet	Electronic references, websites	

Curriculum development plan	11
Developing educational curricula that are compatible with the labor market Holding seminars and scientific conferences aimed at updating the curricula - Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization	

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Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
iseases of the musculoskeletal system (1)IPT 3	The name of the academic or professional program and code	3

Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10		
A- Cognitive goals		
Learn about diseases of orthopedics, nerves, muscles		A-1
The ability to diagnose these diseases and their treatment methods		A-2
Knowledge of diseases associated with the limbs		A-3
Identify the different levels of amputation and its relationship with diseases of the joints and bones		A-4
b- The program's skill objectives		
.The ability to interact with people in several areas within the same specialization		B 1
.The ability to define problems and find appropriate solutions		B-2
The ability to use modern methods to reach the appropriate treatment methods		B-3
Distinguish between diseases associated with thelimbsand not others through accurate diagnosis		B-4
Methods of teaching and learning		
Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training		
Evaluation modalities		
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))		
C- Emotional and moral goals		

Creating a spirit of cooperation between specialists and working as one team with the same specialty	C-1
The ability to self-develop 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 specialization	C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems raised	C-4
Methods of teaching and learning / Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training	
Evaluation modalities ((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
Improve their discussion skills	D-1
Raise their research perceptions and transfer the student from the stage of education to learning And then manufacturing and production	D-2

Infrastructure		10
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Curriculum development plan	11
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Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
he Medical TerminologyTIDO109	The name of the academic or professional program and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10		
A- Cognitive goals		
understanding medical terminology and getting to know the terminology of limbsand supports		A-1
The ability to pronounce terms correctly		A-2
B- The program's skill objectives		
.The ability to interact with specialists in the field of terminology and related sciences		B 1
.The ability to know the terms corresponding meaning		B-2
The ability to use the modern means to reach a high efficiency to distinguish the medical term .from what is not		B-3

Competence to communicate linguistically with specialists during the installation of limbs and supports		B-4
Methods of teaching and learning		
Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training		
Evaluation modalities		
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))		
C- Emotional and moral goals		
Creating a spirit of cooperation between specialists and working as one team with the same specialty		C-1
The ability to self-develop 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 specialization		C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems raised		C-4
Methods of teaching and learning		
/ Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training		
Evaluation modalities		
((oral exams / written exams / observation / cumulative record of the student))		
D- Transferred general and qualifying skills (other skills related to employability and personal (development		
Improve their discussion skills		D-1
Raise their research perceptions and transfer the student from the stage of education to learning And then manufacturing and production		D-2

Infrastructure		10
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Curriculum development plan	11
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Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
Lower limb anatomy IPT 115	Academic or professional program name and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10		

A- Cognitive goals	
To identify the relationship between the functions of the bones, joints and muscles of the lower limb	A-1
Knowledge of the structure of joints, nerve vessels and muscles in the lowerlimbs	A-2
Learn how to dissect the leg	A-3
Knowing the differences between the tissues of the body and the tissues of the lowerlimbs	A-4
B- The program's skill goals	
The ability to interact with people in the field of specialization to obtain sufficient information for .the anatomy	B 1
.The ability to define problems and find appropriate solutions	B-2
ability to use Modern tools specialized in anatomy	B-3
Proficiency in dealing with the installation of the leg by knowing the most accurate anatomical details of it	B-4
Methods of teaching and learning	
Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training	
Evaluation modalities	
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))	
C- Emotional and moral goals	
Creating a spirit of cooperation between specialists and working as one team with the same specialty	C-1
The ability to self-develop 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 specialization	C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems raised	C-4
Methods of teaching and learning	
/ Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training	
Evaluation modalities	

((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
Improve their discussion skills	D-1
Raise their research perceptions and transfer the student from the stage of education to learning And then manufacturing and production	D-2

Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*
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Curriculum development plan	11
Developing educational curricula that are compatible with the labor market Holding seminars and scientific conferences aimed at updating the curricula - Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization	

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Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
DO106 Physiology	The name of the academic or professional program and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4

courses	:The academic system annual/courses/others	5
) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10		
A- Cognitive goals		
Knowledge of cell structure and functions of tissues of different types physiologically		A-1
Learn about the muscular system and its various divisions and functions		A-2
Learn about the physiology and mechanism of action of the nervous system and the function it performs		A-3
B- The program's skill objectives		
.The ability to distinguish between the different regions that follow the same member		B 1
.The ability to define problems and find appropriate solutions		B-2
The ability to use modern means to know the mechanism of work of each member separately		B-3
Efficiency in dealing with patients during the installation of limbs and supports		B-4
Methods of teaching and learning		
Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training		
Evaluation modalities		
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))		
C- Emotional and moral goals		
Creating a spirit of cooperation between specialists and working as one team with the same specialty		C-1
The ability to self-develop 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 specialization	C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems raised	C-4
Methods of teaching and learning / Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training	
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D- Transferred general and qualifying skills (other skills related to employability and personal (development	
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And Raise their research perceptions and transfer the student from the stage of education to learning then manufacturing and production	D-2

Infrastructure		10
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Available in the institute's library	Main (Main) References	*
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made the most of the available opportunities. It is accompanied by a description of each course within the program

Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
English language2 (NTU 200	The name of the academic or professional program and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10		
A- Cognitive goals		
Learn the basics of the English language and its general rules		A-1
Knowing the methods of conversations and quoting medical phrases		A-2
B- The program's skill goals		
.The ability to interact with people in several areas within the same specialization		B 1
.The ability to define problems and find appropriate solutions		B-2
.The ability to use modern means in the field of specialization		B-3
.Efficiency in accessing the latest information through his proficiency in the language		B-4
Methods of teaching and learning		

Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) ((visits / panel discussions / office activities / solving examples / graduation project / summer training		
Evaluation modalities ((oral exams / written exams / weekly reports / daily attendance / semester and final exams))		
C- Emotional and moral goals		
Creating a spirit of cooperation between specialists and working as one team with the same specialty		C-1
The ability to self-develop 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 specialization		C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems raised		C-4
Methods of teaching and learning / Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training		
Evaluation modalities ((oral exams / written exams / observation / cumulative record of the student))		
D- Transferred general and qualifying skills (other skills related to employability and personal (development		
Improve their discussion skills		D-1
And Raise their research perceptions and transfer the student from the stage of education to learning then manufacturing and production		D-2

Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*
the internet	Electronic references, websites	

Curriculum development plan	11
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Developing educational curricula that are compatible with the labor market

Holding seminars and scientific conferences aimed at updating the curricula -

Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization

Course description form

This academic program description provides a brief summary of the most important program characteristics and learning outcomes expected of the student, demonstrating whether he or she has made the most of the available opportunities. It is accompanied by a description of each course within the program

Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
Manufacture of orthoses for the lowerlimbs T 203	The name of the academic or professional program and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10		
A- Cognitive goals		

Learn how to make bolsters	A-1
Know the different types of supports	A-2
Learn how to examine amputation areas	A-3
B- The program's skill objectives	
.communicating with workers in the support industry and exchanging experiences	B 1
.The ability to identify amputation areas and find the most appropriate predicate for them	B-2
.The ability to use carving and molding devices to achieve optimal manufacturing	B-3
Efficiency in dealing with patients during the installation of supports	B-4
Methods of teaching and learning	
Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training	
Evaluation modalities	
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))	
C- Emotional and moral goals	
Creating a spirit of cooperation between specialists and working as one team with the same specialty	C-1
The ability to self-develop 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 specialization	C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems raised	C-4
Methods of teaching and learning	
/ Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training	
Evaluation modalities	
((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	

Improve their discussion skills	D-1
Raise their research perceptions and transfer the student from the stage of education to learning And then manufacturing and production	D-2

Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*
the internet	Electronic references, websites	

Curriculum development plan	11
Developing educational curricula that are compatible with the labor market Holding seminars and scientific conferences aimed at updating the curricula - Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization	

Course description form

This academic program description provides a brief summary of the most important program characteristics and learning outcomes expected of the student, demonstrating whether he or she has made the most of the available opportunities. It is accompanied by a description of each course within the program

Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
Biomechanics (2) IPT 205	The name of the academic or professional program and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5

) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10		
A- Cognitive goals		
Identify the ideal distribution of forces and deformation treatment		A-1
Know the right ways to connect		A-2
B- The program's skill goals		
. The ability to master angles and deviations when manufacturing limbs		B 1
.The ability to define problems and find appropriate solutions		B-2
The ability to use modern means and modern tools specialized in manufacturing		B-3
Efficiency in distributing stress on the amputated limb		B-4
Methods of teaching and learning		
Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training		
Evaluation modalities		
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))		
C- Emotional and moral goals		
Creating a spirit of cooperation between specialists and working as one team with the same specialty		C-1
The ability to self-develop 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 specialization		C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems raised		C-4

Methods of teaching and learning (/ Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) (laboratories / office activities / solving examples / graduation project / summer training	
Evaluation modalities ((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
Improve their discussion skills	D-1
Raise their research perceptions and transfer the student from the stage of education to learning And then manufacturing and production	D-2

Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*
the internet	Electronic references, websites	

Curriculum development plan	11
Developing educational curricula that are compatible with the labor market Holding seminars and scientific conferences aimed at updating the curricula - Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization	

Course description form

This academic program description provides a brief summary of the most important program characteristics and learning outcomes expected of the student, demonstrating whether he or she has made the most of the available opportunities. It is accompanied by a description of each course within the program

Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
manufacture of replacements for the upper limbs IPT 211	The name of the academic or professional program and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical Education WFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10		
A- Cognitive goals		
Identify the basic methods of manufacturing upper limbs (mechanical hand, electronic hand)		A-1
Know the steps of manufacturing the upper limbs of different types		Father
B- The program's skill goals		
.The ability to interact with people specialized in the hand industry		B 1
There is no distinction between what is required, whether the case requires an electronic or a .mechanical hand		B-2
Proficiency in casting special molds and hand carving method		B-3
Proficiency in dealing with patients during the installation of the hand or arm		B-4
Methods of teaching and learning		
Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training		

Evaluation modalities ((oral exams / written exams / weekly reports / daily attendance / semester and final exams))	
C- Emotional and moral goals	
Creating a spirit of cooperation between specialists and working as one team with the same specialty	C-1
The ability to self-develop 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 specialization	C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems raised	C-4
Methods of teaching and learning / Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training	
Evaluation modalities ((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
Improve their discussion skills	D-1
Raise their research perceptions and transfer the student from the stage of education to learning And then manufacturing and production	D-2

Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*
the internet	Electronic references, websites	

Curriculum development plan	11
Developing educational curricula that are compatible with the labor market	

Holding seminars and scientific conferences aimed at updating the curricula -

Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization

Course description form

This academic program description provides a brief summary of the most important program characteristics and learning outcomes expected of the student, demonstrating whether he or she has made the most of the available opportunities. It is accompanied by a description of each course within the program

Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
Diseases of the musculoskeletal system (2) IPT 7	The name of the academic or professional program and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
The required program outputs and methods of teaching, learning and assessment -10		
A- Cognitive goals		
Identifying bone diseases in general and deformities of the limbs and spinal cord		A-1
Knowledge of ways to treat diseases of the joints and bones		A-2

B- The program's skill objectives	
.The ability to interact with neurologists and benefit from their expertise	B 1
.The ability to define problems and find appropriate solutions	B-2
The ability to use modern methods to reach the appropriate treatment methods	B-3
Distinguish between diseases associated with the limbs and not others through accurate diagnosis	B-4
Methods of teaching and learning Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training	
Evaluation modalities ((oral exams / written exams / weekly reports / daily attendance / semester and final exams))	
C- Emotional and moral goals	
Creating a spirit of cooperation between specialists and working as one team with the same specialty	C-1
The ability to self-develop 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 specialization	C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems raised	C-4
Methods of teaching and learning / Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training	
Evaluation modalities ((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal development	
Improve their discussion skills	D-1

Raising their research perceptions and transferring students from the education stage to learning and then manufacturing	D-2
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Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*
the internet	Electronic references, websites	

Curriculum development plan	11
<p>Developing educational curricula that are compatible with the labor market</p> <p>Holding seminars and scientific conferences aimed at updating the curricula -</p> <p>Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization</p>	

Course description form

<p>This academic program description provides a brief summary of the most important program characteristics and learning outcomes expected of the student, demonstrating whether he or she has made the most of the available opportunities. It is accompanied by a description of each course within the program</p>

Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
lateral properties /IPT 211	Academic or professional program name and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6

Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10		
A- Cognitive goals		
Knowledge of the materials used in the manufacture of limbs and supports		A-1
Identify the characteristics of the basic materials used in the manufacture of the limbs and supports		A-2
B- The program's skill objectives		
.The ability to interact with specialists to find appropriate solutions		B 1
The ability to develop solutions and find alternative materials in the event that the quantities .required to complete the work are not available		B-2
The ability to use materials of all kinds		B-3
Proficiency in dealing with the introduction of materials within the reaction template		B-4
Methods of teaching and learning		
/ Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training		
Evaluation modalities		
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))		
C- Emotional and moral goals		
Creating a spirit of cooperation between specialists and working as one team with the same specialty		C-1
The ability to self-develop and update information in the field of specialization and in the long term		C-2
Optimal use of all possible means to keep pace with the novelty of specialization		C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems at hand		C-4
Methods of teaching and learning		

/ Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training		
Evaluation modalities ((oral exams / written exams / observation / cumulative record of the student))		
D- Transferred general and qualifying skills (other skills related to employability and personal (development		
Improve their discussion skills		D-1
Raise their research perceptions and transfer the student from the stage of education to learning And then manufacturing and production		D-2

Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*
the internet	Electronic references, websites	

Curriculum development plan	11
Developing educational curricula that are compatible with the labor market Holding seminars and scientific conferences aimed at updating the curricula - Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization	

Course description form

This academic program description provides a brief summary of the most important program characteristics and learning outcomes expected of the student, demonstrating whether he or she has made the most of the available opportunities. It is accompanied by a description of each course within the program	
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Northern Technical University / Technical Institute role	Educational institution	1
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prosthetics	Scientific department / center	2
Professional EthicsNTU 201	Academic or professional program name and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
A- Cognitive goals		
Identify the basic ethics of professional ethics for workers in medical specialties. Qualifying the graduate on professional behaviors in dealing with his profession and achieving compatibility with himself and his professional environment (the patient, his companions, workers in the health field .(and medical devices		A-1
B- The program's skill objectives		
.The ability to interact with people in several areas to pave the best way for patients' comfort		B 1
.The ability to define problems and find appropriate solutions		B-2
The skill of spreading patients' confidence in specialists and his ability to complete the work		B-3
Efficiency in dealing with patients during the installation of limbs and supports		B-4
Methods of teaching and learning		
/ Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training		
Evaluation modalities		
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))		
C- Emotional and moral goals		
Creating a spirit of cooperation between specialists and working as one team with the same specialty		C-1

The ability to self-develop and update information in the field of specialization and in the long term	C-2
Optimal use of all possible means to keep pace with the novelty of specialization	C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems at hand	C-4
Methods of teaching and learning / Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training	
Evaluation modalities ((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
Improve their discussion skills	D-1
Raise their research perceptions and transfer the student from the stage of education to learning	D-2

Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*
the internet	Electronic references, websites	

Curriculum development plan	11
Developing educational curricula that are compatible with the labor market Holding seminars and scientific conferences aimed at updating the curricula - Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization	

Course description form

This description of the academic program provides a necessary summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating

whether he has made the most of the available opportunities. It is accompanied by a description of each course within the program

Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
anatomy of the upper limbs and trunk IPT 9	Academic or professional program name and code	3
Technical Diploma in Prosthetics	The name of the final certificate	4
courses	:The academic system annual/courses/others	5
) World Federation for Medical EducationWFME (	Accredited Accreditation Program	6
Practical training in state institutions, conferences and seminars	Other external influences	7
2021/9/8	The date the description was prepared	8
Objectives of the academic program		9
Required program outcomes and methods of teaching, learning and assessment -10		
A- Cognitive goals		
To identify the relationship between the functions of bones, joints and muscles in the upper limb		A-1
Knowledge of the structure of joints, nerve vessels and muscles in the upper limbs and trunk		A-2
Learn the skill of arm and hand anatomy		A-3
Know the differences between the tissues of the body and the tissues of the upper limbs and trunk		A-4

B- The program's skill objectives	
The ability to interact with people in the field of specialization to obtain sufficient information for .the anatomy	B 1
.The ability to develop appropriate solutions to the impediments of installing the limb on the trunk	B-2
ability to use Modern tools specialized in anatomy	B-3
Proficiency in dealing with the installation of the arm by knowing the most accurate anatomical details of it	B-4
Methods of teaching and learning Theoretical lectures / discussion and dialogue / practical lectures and multiple workshops / field)) / visits / panel discussions / laboratories / office activities / solving examples / graduation project ((summer training	
Evaluation modalities ((oral exams / written exams / weekly reports / daily attendance / semester and final exams))	
C- Emotional and moral goals	
Creating a spirit of cooperation between specialists and working as one team with the same specialty	C-1
The ability to self-develop 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 specialization	C-3
Integration with learning at the global and local level to develop appropriate solutions to the problems raised	C-4
Methods of teaching and learning / Theoretical lectures / discussion and dialogue / practical lectures / field visits / panel discussions)) ((laboratories / office activities / solving examples / graduation project / summer training	
Evaluation modalities ((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
Improve their discussion skills	D-1
Raise their research perceptions and transfer the student from the education stage to learning and then manufacturing and production	D-2

Infrastructure		10
Available in the institute's library	Course books required	*
Available in the institute's library	Main (Main) References	*
the internet	Electronic references, websites	

Curriculum development plan	11
<p>Developing educational curricula that are compatible with the labor market</p> <p>Holding seminars and scientific conferences aimed at updating the curricula -</p> <p>Follow-up scientific developments in the field of specialization and attend multiple workshops in the field of specialization</p>	

Course description form

This academic program description provides a brief summary of the most important program characteristics and learning outcomes expected of the student, demonstrating whether he or she has made the most of the available opportunities. It is accompanied by a description of each course within the program

the season	number of units	The number of working hours	The number of theoretical hours	code	Course Name
the first	1	-	1	NTU100	human rights

Mandatory	The type of m is decided	university	Requirement type
Arabic			Teaching language
			Methodical book approved

Course outcomes and methods of teaching, learning and assessment	9
A- Cognitive goals	
Instilling the principles of human rights among students in a manner that achieves a correct understanding of these rights based on Islamic concepts and comparing them with international .covenants, and spreading the culture of human rights in society	A-1
b- The program's skill objectives	
The student knows the principles of human rights in their correct meaning derived from Islamic ,concepts, and understands the difference between their meaning in Islam and their meaning in others and answers the questions raised about human rights, and participates in the protection and .dissemination of this culture in society as well as its commitment	B 1
Methods of teaching and learning	
((Theoretical lectures / panel discussions))	
Evaluation modalities	
((oral exams/written exams/ Weekly reports / daily attendance / semester and final exams))	
C- Emotional and value goals	
. carry out his duties in Professionally motivated workplace	C-1
Methods of teaching and learning	
((Theoretical lectures/discussions))	
Evaluation modalities	
((oral exams / written exams / observation / cumulative record of the student))	

D- Transferred general and qualifying skills (other skills related to employability and personal (development

. Improve their discussion skills	D-1
. Raising their research perceptions and transferring students from the stage of teaching to learning	D-2

Course structure . 10					
Evaluation method	Learning method m	Subject name	required learning outcomes	hours	the week
Tests and reports	theoretical	The roots of human rights and their development in human . history	Knowledge	1	the first and the second
Tests and reports	theoretical	Human rights in ancient and medieval times :The first requirement human rights in ,ancient civilizations with a focus on the Mesopotamian civilization. The :second requirement human rights in divine laws, with a focus on .human rights in Islam :The third topic human rights in the :Middle Ages .a Human rights in doctrines, schools .and political theories	Knowledge	1	,Third fourth and fifth

		<p>.B Human rights in companies, rights ,and their declarations revolutions and constitutions documents a For an) English , The ,Revolution American ,French Revolution (Russian Revolution</p>			
Tests and reports	theoretical	<p>Human rights in modern and .contemporary history</p> <p>:The first requirement international recognition of human rights since the First World War (League (United Nations</p> <p>The second requirement: regional recognition of human :rights</p> <p>-1 The European Convention on Human Rights 1950</p> <p>-2 The American Convention on Human Rights 1969</p> <p>-3 The African Charter on Human Rights 1981</p> <p>-4 The Arab Charter for Human Rights 1994</p> <p>The third requirement: non-governmental organizations and human rights (the</p>	Knowledge	1	,Sixth seventh and eighth

		<p>International Committee of the Red Cross, Amnesty International, the Human Rights Watch Organization, the Arab Organization for Human Rights ,national organizations for human rights</p> <p>The fourth requirement: human rights in the Iraqi constitutions between .theory and reality</p>			
Tests and reports	theoretical	<p>Human rights definition, definition) .(and guarantees</p> <p>The relationship between human rights .and public freedoms</p> <p>Claim (a): in the Universal Declaration of Human Rights and international .covenants</p> <p>Claim (b): in regional charters and national .constitutions</p> <ul style="list-style-type: none"> • The second topic: the forms and types of human rights and the interrelationship .between them <p>Claim (a): individual human rights and collective human .rights</p>	Knowledge	1	,The ninth tenth and eleventh

		<p>Claim (B): Human economic, social and cultural rights, civil and political human rights</p> <p>Claim (C): Modern human rights: the right to development the right to a clean environment, the right to solidarity, the right to Islam...etc</p> <p>Claim (d): The interdependence between human rights is an indivisible whole</p> <p>:The third topic guarantees of respect and protection of human rights</p> <p>:The first requirement guarantees of respect and protection of human rights at the national level</p> <p>A - Guarantees in the constitution and laws</p> <p>B - Guarantees in the principle of the rule of law</p>			
Tests and reports	theoretical	<p>General liberty guarantees</p> <p>:The first topic litigation or non-judicial grievance</p>	Knowledge	1	Twelfth and thirteenth

		<p>The second topic: the .judicial appeal</p> <p>:The third topic determining the responsibility of the state for its legitimate .actions</p> <p>:The first requirement the nature of the .French judiciary</p> <p>The second requirement: the areas of judicial competence in the field of public .freedoms</p> <p>The fourth topic: the impact of the double judiciary on public .freedoms</p> <p>:The first requirement .the State Council</p> <p>The second requirement: the legal .status of judges</p> <p>The fifth topic: public freedoms according to administrative .jurisprudence</p>			
Tests and reports	theoretical	<p>concept of equality</p> <p>The first topic: the historical development of the concept of .equality</p> <p>The second topic: the modern development .of the idea of equality</p>	Knowledge	1	Fourteenth and fifteenth

		<p>:The first requirement .gender equality</p> <p>The second requirement: equality between individuals according to their .beliefs and race</p>			
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Infrastructure		11
Available free of charge in the department and library of the Institute	Course books required	*
Available free of charge in the department and library of the institute	Main references (sources)	*
the internet	Electronic references, websites	*

Course development plan		12
Develop curricula compatible with the labor market		*
Holding scientific seminars and conferences aimed at updating the curricula		*
Follow-up scientific developments in the field of specialization		*

Course description form

This description of the academic program provides a brief summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating whether he has made the most of the available opportunities, and is accompanied by a description of .each course within the program

the season	number of units	The number of working hours	The number of theoretical hours	code	Course Name
The second	1	-	1	NTU106	democracy

Mandatory	The type of m is decided	university	Requirement type
Arabic			Teaching language
			Methodical book approved

Course outcomes and methods of teaching, learning and assessment	9
A- Cognitive goals	
,Enabling students to explain the concept of democracy, distinguish this concept from other concepts and understand the meaning of responsibility and respect for the rights and freedoms of others	A-1
b- The program's skill objectives	
The student will be able to defend his rights and the rights of others through his knowledge of organizations that protect human rights	B 1
Methods of teaching and learning	
((Theoretical lectures / panel discussions))	
Evaluation modalities	
((oral exams/written exams/ Weekly reports / daily attendance / semester and final exams))	
C- Emotional and value goals	
. carry out his duties in Professionally motivated workplace	C-1
Methods of teaching and learning	
((Theoretical lectures/discussions))	
Evaluation modalities	
((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
. Improve their discussion skills	D-1

Course structure . 10					
Evaluation method	Learning method m	Subject name	required learning outcomes	hours	the week
Tests and reports	theoretical	Classification of public :freedoms Fundamental freedoms .or individual liberties - Intellectual freedoms or cultural .freedoms Social economic . freedoms	Knowledge	1	the first and the second
Tests and reports	theoretical	basic or individual freedoms ,Freedom of security feeling and .reassurance The - effect of applying the principle of individual security - retroactivity of .laws Stages of relative development of the principle of individual . security	Knowledge	1	,Third fourth and fifth

		<ul style="list-style-type: none"> - In the royal era before the French Revolution In the .revolutionary period The .imperial period - Severe measures for individual freedom and .its guarantees -a Seizure and detention -b Suspension -c Imprisonment -d Seizure pending investigation - Exceptional or temporary judiciary - Special courts in France the Fifth Republic - The Algerian war of liberation and the exceptional judiciary 			
Tests and reports	theoretical	Freedom to come and :go -1 Vehicle movement -2 Market leave	Knowledge	1	,Sixth seventh and eighth
Tests and reports	theoretical	:Personal Freedom Title Two: Intellectual .Freedoms	Knowledge	1	,The ninth tenth and eleventh

		<ul style="list-style-type: none"> • :The first topic freedom of opinion • The second topic: freedom of belief <p>The Law of Separation :of State and Church</p> <ul style="list-style-type: none"> • :The third topic freedom of education <p>:The first requirement education in the old system</p> <p>The second :requirement education under the shadow of the revolution</p> <p>:The fourth topic freedom of the press</p> <p>:The first requirement the press in the old .system</p> <p>The second requirement: the press under the shadow of the revolution and the empire</p> <p>:The third requirement the press in the era of the conference</p>			
Tests and reports	theoretical	<p>The current system of press freedom</p> <p>Freedom of assembly</p>	Knowledge	1	Twelfth and thirteenth

		<p>:The first requirement freedom of assembly</p> <p>The second :requirement processions and demonstrations</p> <p>Anti-vandalism law</p>			
Tests and reports	theoretical	<p>Freedom of association</p> <p>Title III: Freedoms with economic and social content</p> <p>Individual freedom and social rights</p> <p>The dual concept of social rights</p> <p>Historical development and comparative law</p>	Knowledge	1	Fourteenth and fifteenth

Infrastructure		11
Available free of charge in the department and library of the Institute	Course books required	*
Available free of charge in the department and library of the Institute	Main references (sources)	*
the internet	Electronic references, websites	*

Course development plan		12
Develop curricula compatible with the labor market		*
Holding scientific seminars and conferences aimed at updating the curricula		*
Follow-up scientific developments in the field of specialization		*

This description of the academic program provides a brief summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating whether he has made the most of the available opportunities, and is accompanied by a description of each course within the program

the season	number of units	The number of working hours	The number of theoretical hours	code	Course Name
the first	2	-	2	NTU101	English 1
compulsory		Course type	university		Requirement type
English					Teaching language
New headway plus beginner					Methodical book approved

Course outcomes and methods of teaching, learning and assessment

9

A- Cognitive goals

Strengthening students ' teaching to use English as a foreign language in order to help them enrich ,their information and understanding of terms and phrases and strengthen their four skills (reading ,(writing, speaking and listening

A-1

b- The program's skill objectives

. Teaching the student how to use the rules of the English language in conversation

B 1

Methods of teaching and learning

((Theoretical lectures / panel discussions))

Evaluation modalities

((oral exams/written exams/ Weekly reports / daily attendance / semester and final exams))

C- Emotional and value goals

. carry out his duties in Professionally motivated workplace	C-1
Methods of teaching and learning	
((Theoretical lectures/discussions))	
Evaluation modalities	
((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
. Improve their discussion skills	D-1
. Raising their research perceptions and transferring students from the stage of teaching to learning	D-2

Course structure . 10					
Evaluation method	Learning method m	Subject name	required learning outcomes	hours	the week
Tests and reports	theoretical	Unit one: hello Am/are/is, my/your This is with practice in work	Knowledge	2	week 1
Tests and reports	theoretical	Unit two: your world He/she/they, his/her Questions	Knowledge	2	Week 2
Tests and reports	theoretical	Unit three: all about	Knowledge	2	Week 3
Tests and reports	theoretical	Unit four: family and friends Possessive adjectives Possessive's Has/have Adjective+ noun	Knowledge	2	Week 4

Tests and reports	theoretical	Unit Five: the way I live Present simple I / you / we / they A and an adjective + noun	Knowledge	2	Week 5
Tests and reports	theoretical	Unit six: every day Present simple he/she questions and negatives Adverbs of frequency	Knowledge	2	Week 6
Tests and reports	theoretical	Unit seven: my favorite Question words Pronouns This and that	Knowledge	2	Week 7
Tests and reports	theoretical	Unit eight: where I live There is/are . Prepositions	Knowledge	2	Week 8
Tests and reports	theoretical	Unit nine: times past Was /were born Past simple -irregular verbs	Knowledge	2	Week 9
Tests and reports	theoretical	Unit ten: we had a great time! Past simple - regular & irregular Question Negatives Ago	Knowledge	2	week 10
Tests and reports	theoretical	Unit eleven: Can /can't Adverbs Requests I can do that	Knowledge	2	week 11
Tests and reports	theoretical	Unit twelve: please I'd like... Some and any Like and would like and thank you	Knowledge	2	Week 12
Tests and reports	theoretical	Unit thirteen: here and now Present continuous Present simple & present continuous	Knowledge	2	Week 13
Tests and reports	theoretical	Unit fourteen: it's time to go! Future plans	Knowledge	2	Week 14

		Revision writing email and informant letter			
Tests and reports	theoretical	Unit fifteen : revision	Knowledge	2	Week 15

Infrastructure				11
Available free of charge in the department and library of the Institute		Course books required		*
Available free of charge in the department and library of the Institute		Main references (sources)		*
the internet		Electronic references, websites		*

Course development plan				12
Develop curricula compatible with the labor market				*
Holding scientific seminars and conferences aimed at updating the curricula				*
Follow-up scientific developments in the field of specialization				*

Course description form

This description of the academic program provides a brief summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating whether he has made the most of the available opportunities, and is accompanied by a description of each course within the program

the season	number of units	The number of working hours	The number of theoretical hours	code	Course Name
the first	3	2	1	NTU102	Computer principles 1

Mandatory	Course type	university	Requirement type
Arabic			Teaching language
			Methodical book approved

Course outcomes and methods of teaching, learning and assessment	9
A- Cognitive goals	
Teaching the student the skills of working on the calculator and using its ready-made applications .and the principles of the Internet in the field of specialization	A-1
b- The program's skill objectives	
Teaching the student the skills of working on the calculator and using its ready-made applications .and the principles of the Internet in the field of specialization	B 1
Methods of teaching and learning	
Theoretical lectures / practical lectures / field visits / solving examples / panel discussions / summer)) ((training	
Evaluation modalities	
((oral exams/written exams/ Weekly reports / daily attendance / semester and final exams))	
C- Emotional and value goals	
. carry out his duties in Professionally motivated workplace	C-1
Methods of teaching and learning	
Theoretical lectures / practical lectures / field visits / solving examples / panel discussions / summer)) ((training	
Evaluation modalities	
((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal development	

. Improve their discussion skills	D-1
. Raising their research perceptions and transferring students from the stage of teaching to learning	D-2

Course structure . 10					
Evaluation method	Learning method m	Subject name	required learning outcomes	hours	the week
Tests and reports	Practical + theoretical	Introduction to computer / computer system / information technology / types of computers / input units / central / processing unit output units / main memory and its types data storage in / memory / factors affecting computer performance Definition of software and its types / systems software: operating / systems programming languages and programming systems / application . software	Knowledge and practical application	3	the first and the second
Tests and reports	Practical + theoretical	Introduction to Windows its / advantages / turning / on the device shutting down the device / using the mouse / components of the windows screen :the taskbar: icons : and their types	Knowledge and practical application	3	Third

Tests and reports	Practical + theoretical	/ Control panel / desktop control / screen saver windows colors and fonts / screen settings / adjust screen colors / / adjust time and date volume / change between mouse buttons / double click speed control / change mouse cursor / mouse speed control / install and uninstall programs	Knowledge and practical application	3	the fourth
Tests and reports	Practical + theoretical	Minimize and enlarge / the window / permanently close / temporarily close / move the window control the window size / ways to run applications and programs	Knowledge and practical application	3	Fifth
Tests and reports	Practical + theoretical	Arranging start menu items deleting / start menu items adding a / submenu to the start menu / adding a new button to the start menu	Knowledge and practical application	3	VI
Tests and reports	Practical + theoretical	Basic system information / Turn off unwanted apps Windows explorer / / My computer icon My computer window panes	Knowledge and practical application	3	VII

Tests and reports	Practical + theoretical	,Recycle Bin (delete restore and empty the / (basketmy document icon	Knowledge and practical application	3	eighth and ninth
Tests and reports	Practical + theoretical	Defining files and folders / Defining files and folders / Defining files and folders properties / Creating / files and folders Changing the name of / files and folders Moving a file or folder / Copying a file or folder / Searching / for a file or folder Creating a shortcut icon for an application or file	Knowledge and practical application	3	Tenth and eleventh
Tests and reports Tests and reports	Practical + theoretical	/ Calculator / Notepad Notepad / Use the note to edit and create a file Painter / screen components / creating graphics / specifying foreground and / background colors choosing brush line size / selecting and selecting a drawing / tool / saving drawing making drawing a / desktop background finishing painter entertainment programsMedia player	Knowledge and practical application	3	Twelfth and thirteenth
Tests and reports	Practical + theoretical	Viruses / the reason / for the name definition / ways of / spreading the virus	Knowledge and practical application	3	Fourteenth and fifteenth

		symptoms of infection / with the virus methods of protection types of viruses / / Computer crimes theft / hackers			
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Infrastructure		11
Available free of charge in the department and library of the Institute	Course books required	*
Available free of charge in the department and library of the Institute	Main references (sources)	*
the internet	Electronic references, websites	*

Course development plan		12
Develop curricula compatible with the labor market		*
Holding scientific seminars and conferences aimed at updating the curricula		*
Follow-up scientific developments in the field of specialization		*

Course description form

This description of the academic program provides a brief summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating whether he has made the most of the available opportunities, and is accompanied by a description of each course within the program

the season	num ber of units	The number of working hours	The number of theoretic al hours	code	Course Name
The second	3	2	1	NTU 103	Computer principles 2
Mandatory		Course type	university		Requirement type
Arabic					Teaching language
					Methodical book approved

Course outcomes and methods of teaching, learning and assessment	9
A- Cognitive goals	
Teaching the student the skills of working on the computer and using its ready-made applications .and the principles of the Internet in the field of specialization	A-1
b- The program's skill objectives	
Teaching the student the skills of working on the computer and using its ready-made applications .and the principles of the Internet in the field of specialization	B 1

Methods of teaching and learning	
Theoretical lectures / practical lectures / field visits / solving examples / panel discussions / summer)) ((training	
Evaluation modalities	
((oral exams/written exams/ Weekly reports / daily attendance / semester and final exams))	
C- Emotional and value goals	
. carry out his duties in Professionally motivated workplace	C-1
Methods of teaching and learning	
Theoretical lectures / practical lectures / field visits / solving examples / panel discussions / summer)) ((training	
Evaluation modalities	
((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
. Improve their discussion skills	D-1
. Raising their research perceptions and transferring students from the stage of teaching to learning	D-2

Course structure . 10					
Evaluation method	Learning method m	Subject name	required learning outcomes	hours	the week
Tests and reports	Practical + theoretical	/ Word processor features running theword the / basic elements of the word window / turning the language / defining the paragraph / merging and / dividing the paragraph highlighting (shading) the . text	Knowledge and practical application	3	the first and the second

Tests and reports	Practical + theoretical	<p>New / Open an inventory / file / Close the document / Save a new document / Save an existing document / Preview before printing / / Close the document / Finish the word</p>	Knowledge and practical application	3	Third
Tests and reports	Practical + theoretical	<p>:Clipboard cut/copy/paste/copy formatting</p> <p>Font: change font / font size / font enlargement and reduction / clear formatting / change font color / text highlight color / subscript / superscript / change case / underline style / effects / character spacing</p> <p>/ Paragraph: Numbering Bullets / Create a bulleted list to existing text / cancel bullets / indentation / paragraph spacing / line spacing / text / direction / alignment borders and shading</p> <p>Styles: Normal / No / Spacing / Heading 1 / Heading 2 / Subtitle Change Styles / Show Preview / Disable Linked Styles / Options</p> <p>/ Edit: Find / Move to Replace / Select</p>	Knowledge and practical application	3	the fourth
Tests and reports	Practical + theoretical	<p>Pages: blank page / cover page / page break</p> <p>/ Table: insert a table draw a table / convert text</p>	Knowledge and practical application	3	Fifth

		/ to a table excel spreadsheet / quick tables / table patterns / draw table borders Illustrations: picture / clip art / prepared shapes / smart art .drawing / chart			
Tests and reports	Practical + theoretical	Header and footer: header footer / page number / Text: text box / decorated text word art signature / line / date and time / object . / formula / symbol	Knowledge and practical application	3	VI
Tests and reports	Practical + theoretical	/ Attributes: Attributes . colors / fonts / effects	Knowledge and practical application	3	VII
Tests and reports	Practical + theoretical	/ Attributes: Attributes Colors / Fonts / Effects / Page Setup: Margins Page Size / Orientation :Page background / watermark / page color page borders / Arrangement: position bring to the front / send to the background / wrap .text / align / group / rotate	Knowledge and practical application	3	eighth and ninth
Tests and reports	Practical + theoretical	Table of contents / add text / update table Footnotes: insert footnote insert endnote / next / footnote / show notes :Bibliography and citation Insert citation / manage sources / style Captions: Insert a caption	Knowledge and practical application	3	Tenth and eleventh

		Index: Insert index/Mark entry/Update index			
Tests and reports Tests and reports	Practical + theoretical	Set-up: Envelopes/Labels Proofreading: Spelling and Grammar / Research / Thesaurus / Translate / Translation ScreenTip Set Language / Word Count :Comments New/Delete/Previous/Next comment Tracking: Track Changes Balloons / Final / Appearance Marker Show Markers / Review Pane / Changes: accept / reject previous / next Protect: Protect the document Document Views: Print Layout / Full Screen / Reading / Web Layout Outline / Draft / Show and hide: ruler gridlines / document map thumbnail / / Zoom in and out: 100% page / 2 pages / page 1 width	Knowledge and practical application	3	Twelfth and thirteenth

		/ Frame: New Frame Arrange All / Split / Swap Frames Microsoft office word help			
Tests and reports	Practical + theoretical	/ Networks and their types Network forms / Network protocols / Internet and its development / Internet / and intranet / Firewalls Some basic Internet concepts / Connecting to the Internet / Opening the / Internet browser Components of the Internet browsing window Browser icons / Web / addresses / Using the browser / Changing the / start page / Toolbars Close the browser and disconnect from the Internet / History / Store favorite pages / Search engines / How to search for information on the Internet / Copy text and images to any application Download files from the / Internet / Prepare for printing / Printing	Knowledge and practical application	3	Fourteenth and fifteenth

Infrastructure		11
Available free of charge in the department and library of the Institute	Course books required	*
Available free of charge in the department and library of the Institute	Main references (sources)	*
the internet	Electronic references, websites	*

Course development plan	12
Develop curricula compatible with the labor market	*
Holding scientific seminars and conferences aimed at updating the curricula	*
Follow-up scientific developments in the field of specialization	*

Course description form

This description of the academic program provides a brief summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating whether he has made the most of the available opportunities, and is accompanied by a description of each course within the program

the season	number of units	The number of working hours	The number of theoretical hours	code	Course Name
The second	2	-	2	NTU104	Arabic
Mandatory		The type of m is decided	university		Requirement type
Arabic					Teaching language
					Methodical book approved

Course outcomes and methods of teaching, learning and assessment

9

A- Cognitive goals

,Teaching the student how to preserve the classical language and avoiding the colloquial language .and helping the student to write without spelling errors by adjusting the rules of the Arabic language

A-1

b- The program's skill objectives

,Teach the student how to preserve the standard language and stay away from the colloquial language . and help the student to write without spelling errors by adjusting the rules of the Arabic language

B 1

Methods of teaching and learning

((Theoretical lectures / panel discussions))

Evaluation modalities

((oral exams/written exams/ Weekly reports / daily attendance / semester and final exams))

C- Emotional and value goals	
. carry out his duties in Professionally motivated workplace	C-1
Methods of teaching and learning	
((Theoretical lectures/discussions))	
Evaluation modalities	
((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
. Improve their discussion skills	D-1
. Raising their research perceptions and transferring students from the stage of teaching to learning	D-2

Course structure . 10					
Evaluation method	Learning method m	Subject name	required learning outcomes	hours	the week
Tests and reports	theoretical	An introduction to linguistic errors - the tied and long ta'a and the open ta'a	Knowledge	2	The first week
Tests and reports	theoretical	Rules for writing the extended and reduced alif - the solar and lunar letters	Knowledge	2	The second week
Tests and reports	theoretical	The opposite and the light	Knowledge	2	The third week
Tests and reports	theoretical	Humza writing	Knowledge	2	Fourth week
Tests and reports	theoretical	punctuation marks	Knowledge	2	Fifth week

Tests and reports	theoretical	Noun and verb and differentiate between them	Knowledge	2	Sixth week
Tests and reports	theoretical	reactants	Knowledge	2	The seventh week
Tests and reports	theoretical	The number	Knowledge	2	The eighth week
Tests and reports	theoretical	Common language errors applications	Knowledge	2	The ninth week and tenth
Tests and reports	theoretical	- Noon and Tanween meanings of prepositions	Knowledge	2	Eleventh week
Tests and reports	theoretical	Formal aspects of administrative discourse	Knowledge	2	Twelfth week
Tests and reports	theoretical	Administrative discourse language	Knowledge	2	The thirteenth and fourteenth week
Tests and reports	theoretical	Forms of administrative correspondence	Knowledge	2	Fifteenth week

Infrastructure		11
Available free of charge in the department and library of the institute	Course books required	*
Available free of charge in the department and library of the institute	Main references (sources)	*
the internet	Electronic references, websites	*

Course development plan	12
Develop curricula compatible with the labor market	*
Holding scientific seminars and conferences aimed at updating the curricula	*
Follow-up scientific developments in the field of specialization	*

Course description form

This description of the academic program provides a brief summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating whether he has made the most of the available opportunities, and is accompanied by a description of each course within the program

the season	number of units	The number of working hours	The number of theoretical hours	code	Course Name
The second	2	1	1	NTU 105	Sports
my choice		Course type	university		Requirement type
Arabic					Teaching language
					Methodical book approved

Course outcomes and methods of teaching, learning and assessment	9
A- Cognitive goals	
The student should be able to identify the most important types of sports and what are the laws and skills of some sports	A-1
b- The program's skill objectives	
Learn about the kinetic mechanism of the human body and what are the common injuries that occur .in the human body	B 1
Methods of teaching and learning	
Theoretical lectures / practical lectures / field visits / solving examples / panel discussions / summer)) ((training	
Evaluation modalities	
((oral exams/written exams/ Weekly reports / daily attendance / semester and final exams))	
C- Emotional and value goals	

. carry out his duties in Professionally motivated workplace	C-1
Methods of teaching and learning	
Theoretical lectures / practical lectures / field visits / solving examples / panel discussions / summer)) ((training	
Evaluation modalities	
((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
. Improve their discussion skills	D-1
. Raising their research perceptions and transferring students from the stage of teaching to learning	D-2

Course structure . 10					
Evaluation method	Learning method m	Subject name	required learning outcomes	hours	the week
Tests and reports	Practical + theoretical	,Sports definition importance and types	Knowledge and practical application	2	the first
Tests and reports	Practical + theoretical	Human body movement mechanism	Knowledge and practical application	2	The second
Tests and reports	Practical + theoretical	Common sports injuries	Knowledge and practical application	2	Third
Tests and reports	Practical + theoretical	Basic skills of the game of basketball	Knowledge and practical application	2	the fourth

Tests and reports	Practical + theoretical	International law of the game of basketball	Knowledge and practical application	2	Fifth
Tests and reports	Practical + theoretical	Basic skills Table tennis and its international law	Knowledge and practical application	2	VI
Tests and reports	Practical + theoretical	Basic skills Volleyball and its international law	Knowledge and practical application	2	VII
Tests and reports	Practical + theoretical	swimming sport	Knowledge and practical application	2	VIII
Tests and reports Tests and reports	Practical + theoretical	Basic skills Ground tennis game and its international law	Knowledge and practical application	2	ninth
Tests and reports	Practical + theoretical	Basic skills handball game	Knowledge and practical application	2	The tenth
Tests and reports	Practical + theoretical	International law of handball	Knowledge and practical application	2	eleventh
Tests and reports	Practical + theoretical	Arena and field games types , international) (law of the game	Knowledge and practical application	2	twelveth
Tests and reports	Practical + theoretical	Basic soccer skills	Knowledge and practical application	2	Thirteenth
Tests and reports	Practical + theoretical	Management of competitions and sports competitions	Knowledge and practical application	2	fourteenth
Tests and reports	Practical + theoretical	Sports laws and legislation	Knowledge and practical application	2	Fifteenth

Infrastructure		11
Available free of charge in the department and library of the institute	Course books required	*
Available free of charge in the department and library of the institute	Main references (sources)	*
the internet	Electronic references, websites	*

Course development plan		12
Develop curricula compatible with the labor market		*
Holding scientific seminars and conferences aimed at updating the curricula		*
Follow-up scientific developments in the field of specialization		*

Course description form

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Theoretical curriculum material in Arabic		
Study subject: life statistics. Academic level: second Code: TIDO 202		
Subject name	hours	the week
Definition of statistics. Data collection methods	2	1
Presentation and description of statistical data, preparation of a form (unclassified data) questionnaire	2	2
"Representation of frequency distributions "grouped data	2	3
"Tabular Presentation "Tables of Frequency Distributions		
.Graphic display - histogram, frequency curve, frequency polygon		

.Measures of central tendency - arithmetic mean, median, mode	2	4
Introduction to the theory of samples "their meaning and reasons for ".their selection	2	5
.Life statistics, ratio and rate, death statistics	2	6
.Fertility statistics	2	7
.Disease statistics, life tables	2	8
.Definition of health statistics and its sources	2	9
.Fields treated by health statistics	2	10
Statistics of causes of death (medical certificate, cause, death, death .(certificate	2	11
.Statistics of health institutions	2	12
.The most appropriate rates for hospitals and patients. Treatment days Length of stay (average days of stay)	2	13
.family busyness rate. Entry rate	2	14
Exam	2	15

- 1 - W. Dixon and F. Massey - Introduction to Statistical Analysis.
- 2- banderfort Hill , Fundamental in Biologicals

Theoretical and practical curriculum material in English CodeIPT 217		
Subject: Physiotherapy Academic Level: Second		
Subject name	hours	the week

Medical rehabilitation for diseases - Rheumatic and esoteric the acute stage of arthritis - methods of physical therapy And medical rehabilitation for the acute stage - the subacute stage the chronic stage - methods - Physiotherapy and medical rehabilitation	3	-3Jan
Methods and means of physiotherapy for the stage after the - amputation surgery - the stage of using the prosthetic limb the goals of physiotherapy and medical rehabilitation at each stage	3	4
Fractures - important basics in treatment - the stabilization - stage - the goals of physiotherapy in the stabilization stage the methods and means of physical therapy in the stabilization stage - the post-fixation stage - the goals, methods and means of physical therapy at this stage	3	5
Meniscus injury and cartilage removal process - mechanics of - injury - treatment methods in case of cartilage damage postoperative treatment methods	3	6
Hemiplegia - the lost functions facing paraplegia	3	7
Convulsive positions in paraplegics - the opposite positions for spasms	3	8
- Methods of treatment and rehabilitation for spasms Peripheral nerves - Types of injuries that occur in the - peripheral nerves - Methods and means of physical therapy Methods and means of physical therapy in the case of surgical intervention	3	9
Methods and means of medical treatment and medical rehabilitation for paralysis of the lower limbs treatment in - the wheelchair stage - complications of the injury and methods of treatment	3	10
Acute injuries of the intervertebral disc - mechanical and causes of injury - injury reflexes - methods	3	11
- Cerebral palsy - pathological patterns - complications physiotherapy and medical rehabilitation methods - paralysis of the lower limbsfor the early stage	3	12
Diseases of the respiratory system - an overview of diseases that affect the respiratory system - methods and means of physical therapy - respiratory exercises - local removal of the lung - physical and mental relaxation	3	13
Diseases of the heart and circulatory system - Complications resulting from injury and methods of treatment - Methods and means of physical therapy and medical rehabilitation to treat these pathological conditions - Special precautions	3	14

Infrastructure		11
Available free of charge in the department and library of the institute	Course books required	*
Available free of charge in the department and library of the institute	Main references (sources)	*
the internet	Electronic references, websites	*

Course development plan		12
Develop curricula compatible with the labor market		*
Holding scientific seminars and conferences aimed at updating the curricula		*
Follow-up scientific developments in the field of specialization		*

Course description form

This description of the academic program provides a brief summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating whether he has made the most of the available opportunities, and is accompanied by a description of each course within the program

Northern Technical University / Technical Institute role	Educational institution	1
The artificial limbs	Scientific department / center	2
Calculator Applications (2)IPT 215	Course code name	3
Is mandatory	Attendance forms available	4
the second	season/year	5
)90 hours annually (	Number of study hours (total)	6
8/9/202 _ 1	Description Preparation date	7
This course aims to introduce computers and their uses in the various fields of accounting	Course objectives	8
Course outcomes and methods of teaching, learning and assessment		9
A- Cognitive goals		

Teaching the student the skills of working on the computer and using its ready-made applications and the Internet in the field of specialization	A-1
b- The program's skill objectives	
. Preparing graduates qualified to deal With Modern laboratories and equipment	B 1
Methods of teaching and learning	
Theoretical lectures / practical lectures / field visits / solving examples / graduation project / summer)) ((training	
Evaluation modalities	
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))	
C- Emotional and value goals	
carry out his duties in Professionally motivated workplace	C-1
Methods of teaching and learning	
Theoretical lectures / practical lectures / field visits / solving examples / graduation project / summer)) ((training	
Evaluation modalities	
((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
Improve their discussion skills	D-1
Raise their research perceptions and transfer the student from the stage of teaching to learning	D-2

Course structure . 10

Evaluation method	education method	Subject name	required learning outcomes	hours	the week
Tests and reports	Practical + theoretical	/ E-mail and its programs advantages of e-mail / e-mail spam how to create an e-mail / / how e-mail works / e-mail addresses / running the internet browser(internet explorer) creating an e-mail / account on the siteyahoo / properties of the mail account / window / modifying settings Customize the toolbar / Search methods / Basic search and / advanced search by file type / Advanced search engines Browse messages / Sort messages / Set a follow-up bookmark for an e-mail message and delete it / Open and compress files attached to the message / Create a new message / Attach a file to the messageattach files / / Responding to e-mail resending mail to another party / deleting files attached to the message / closing the / connection with the Internet / drafting message signatures / deleting mail / printing mail ,searching for a message / creating email foldersaddress book adding an email address / to a book Addresses / Create a / group in the address book	Knowledge and practical application	3	1 6

		Network etiquette / Options for sending messages			
Tests and reports	Practical + theoretical	<p>Introduction to power point /</p> <p>How to operate power point /</p> <p>Components of the pp window</p> <p>entering the /pp application /</p> <p>exiting the pp application/ pp</p> <p>application interface / creating presentations / storing presentations / recalling previously stored presentations / entering data ,and texts / specifying the size / shape and color of the font / slides / arranging slides slideshows / inserting a new slide / moving a slide / deleting / a slide / numbering slides / animations and sound effects adding animation effects to slide elements / changing the animation effect / canceling the animation effect / using / buttons and actions arranging paragraphs inside / the slide / hiding the slide / adding time to the slide / adding music to the slide</p> <p>Create a project with power point</p>	Knowledge and practical application	3	79

Tests and reports	Practical + theoretical	<p>Introduction / operating excel / components of the excel window / bilingual and directional worksheet in excel / / data entry in the worksheet modifying the entered data</p> <p>/ New / Open an inventory file Close the worksheet / Save the new worksheet / Save the existing worksheet / Preview before printing / Close the worksheet / Finish the excel</p> <p>:Clipboard cut/copy/paste/copy formatting</p> <p>/ Font: change font / font size font enlargement and / reduction / clear formatting change font color / text / highlight color / subscript / superscript / change case / underline style / effects character spacing</p> <p>Alignment: align text in the cell vertically / align text in the cell / horizontally / rotate text direction of text from right to left or vice versa / increase and decrease the margin between / the border and text in the cell wrap text / merge and center</p> <p>/ Number: Numeric format / Calculation number format Percentage style / Comma style Increment and decrement of decimal places</p> <p>/ Styles: Numeric Format Format as Table / Format with Predefined Styles / Define</p>	Knowledge and practical application	3	10 20
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		<p>/ Custom Cell Styles Columns / Insert Sheet / Delete Cells Delete Rows / Delete Columns Delete Sheet / Format Cell / Size</p> <p>/ Cells: insert cells / insert rows / insert columns / insert a sheet delete a sheet / format cell size visibility (show and hide) / / rows, columns and the sheet organize sheets / rename the / sheet / move or copy the sheet tab color / protect the sheet</p> <p>Edit: AutoSum/Fill/Scan/Sort Filter/Find & Select &</p> <p>Tables: insert a table / create a table</p> <p>/ Illustrations: picture / clip art shapes / drawingsmart art</p> <p>Charts: column / line / pie / bar area / scatter / other charts /</p> <p>Text: textbox/header and /footerword art line/ signature/object/symbol</p> <p>Attributes: Attributes / Colors Fonts / Effects /</p> <p>Page Setup: Margins / Page / Size / Orientation Background / Print Titles</p> <p>Resizing for the purpose of / convenience: Width / Height Resizing</p>			
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Sheet Options: Sheet Right to / Left / Gridlines / View / Print Bookmarks



Arrangement: Position / Bring to Front / Send to Back / Text Wrap / Align / Group / Rotate Selection Pane / Conditional / Formatting

Functions library: insert function / auto sum / recently) used items / financial / logical IF statement text / date and / / time / search and sign mathematics and trigonometry / additional functions

/ Calculation: arithmetic arithmetic operations / addition / subtraction) / (multiplication / division calculation options now / sheet calculation / automatic summation. Calculating subtotals

Fetching external data: from Access from text / from other / sources / existing connections

/ Contacts: Update All / Contacts / Properties / Edit Links

/ Sort /  /  :Sort and filter / Filter / Clear / Reapply Advanced options

/ Data Tools: Text to Columns Remove Duplicates / Data / Validation / Consolidation What-If Analysis

		:Outline group/ungroup/subtotal Proofreading: Spelling and / Grammar / Research / Thesaurus / Translate Translation ScreenTip / Set Language / Word Count / Comments: new comment delete / previous / next / show and hide comments / show all comments / Changes: Protect Sheet Protect Workbook / Share Workbook Workbook Views: Print / Layout / Full Screen Reading Web Layout / Outline / Draft :Show and hide ruler/gridlines/formula bar/message bar/addresses Zoom in and out: 100% / 1 page / 2 pages / page width Frame: New window / Arrange all / Freeze panes / Split / Hide Unhide / Display side by side / Reposition the window / Save / workspace / Swap windows			
Tests and reports	Practical + theoretical	Run theAccess / application / Application Features / Template Categories Features / Create a new blank database / Home command / Views / Font / Rich Text)	Knowledge and practical application	3	21 25

		/ Records / Sort and Filter .Search / Create command / Table Table Templates / Table / Design / Form / Split Form / Multiple Items / Blank Form / Extra Forms' / Form Design' Report / Labels / Blank Report Report Wizard / Report / Design / Query Wizard / Query .Design External Data command / Saved Imports/Access /Excel .m text file / ExportExcel /word .text file / Command "Database Tools/Relationships/Database Documentation/Analysis /CommandsAccess Database" .			
Tests and reports	Practical + theoretical	Specialization projects	Knowledge and practical application	3	26 30

Infrastructure		11
Available free of charge in the department and library of the Institute	Course books required	*
Available free of charge in the department and library of the Institute	Main references (sources)	*
the internet	Electronic references, websites	*

Course development plan	12
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Develop curricula compatible with the labor market	*
Holding scientific seminars and conferences aimed at updating the curricula	*
Follow-up scientific developments in the field of specialization	*

Course description form

This description of the academic program provides a brief summary of the most important characteristics of the program and the expected learning outcomes of the student, demonstrating whether he has made the most of the available opportunities, and is accompanied by a description of each course within the program

Northern Technical University / Technical Institute role	Educational institution	1
prosthetics	Scientific department / center	2
IPT 212 Graduation Project 1	Course code name	3
Is mandatory	Attendance forms available	4
the second	season/year	5
)60 hours annually (	Number of study hours (total)	6
_ 1 202/9/8	Description Preparation date	7
Teaching the student how to solve problems through scientific research	Course objectives	8
Course outcomes and methods of teaching, learning and assessment		9
A- Cognitive goals		
salient goals in the project. And he learns how to deal with his group of students in order to support . group work		A-1
b- The program's skill objectives		
. completion rates work Possibility Follow-up projects in terms of		B 1
Methods of teaching and learning		

Theoretical lectures / practical lectures / field visits / solving examples / graduation project / summer)) ((training	
Evaluation modalities	
((oral exams / written exams / weekly reports / daily attendance / semester and final exams))	
C- Emotional and value goals	
carry out his duties in Work site for professional and ethical motives	C-1
Methods of teaching and learning	
Theoretical lectures / practical lectures / field visits / solving examples / graduation project / summer)) ((training	
Evaluation modalities	
((oral exams / written exams / observation / cumulative record of the student))	
D- Transferred general and qualifying skills (other skills related to employability and personal (development	
Improve their discussion skills	D-1
Raise their research perceptions and transfer the student from the stage of teaching to learning	D-2

Course structure . 10					
Evaluation method	education method	Subject name	required learning outcomes	hours	the week
Tests and reports	my work	Teaching the student the fundamentals of scientific research	Knowledge and practical application	2	1 15
Tests and reports	my work	Follow up the student in writing the research	Knowledge and practical application	2	16 30

Infrastructure		11
Available free of charge in the department and library of the Institute	Course books required	*

Available free of charge in the department and library of the Institute	Main references (sources)	*
the internet	Electronic references, websites	*

Course development plan	12
Develop curricula compatible with the labor market	*
Holding scientific seminars and conferences aimed at updating the curricula	*
Follow-up scientific developments in the field of specialization	*

Theoretical curriculum material in English		
Code: TIDO 107		
first Academic subject: Anatomy. Academic level: the		
Subject name	hours	the week
Anatomical Directions: Give altgram to all directions of the human body	2	1
Surface anatomy heart: Discribe the position of the heart according to the chest wall and the number of the rib.	2	2
Surface Anatomy of Lungs: Discribe the position of the lungs according to the chest wall and the number of the rib.	2	3
Anatomy of the abdomen surface: We draw the regions of the abdominal surface according to the horizontally & vertically lines .	2	4
Anatomy of stomach: We demonstrate the relationship of the stomach to the other organs to the abdomen.	2	5
Anatomy of the liver & spleen: We show them the regions of the liver & spleen according to the sur face anatomy of the abdomen.	2	6
Anatomy of Intestine: We demonstrate the relationship of the Intestine to the other organs to the abdomen.	2	7

Anatomy of the Appendix: We define the region of the appendix at the right iliac region.	2	8
Anatomy of the gall bladder: We determine the region of the gall bladder at the right sub costal region	2	9
We define the region of the uterus at the supra - pubic region.	2	10
Anatomy of the skeleton: We describe the center skeleton:	2	11
Skull - vertebral column & the peripheral .		
Bones of the shoulder: We show the bones of the shoulder on the skeleton which are the scapula and the clavicle .	2	12
Bones of the arm: We show the bones of the arm (Humarus).	2	13
Bones of the forearm :We show the bones of the forearm :(ulna and radius).	2	14
Bones of the hand: We demonstrate the bones of the hand:	2	15
(carpal bones and meta carpal and phalagus).		

Theoretical curriculum material in English IPT 110		
Study subject: manufacture of limbs below the knee. Academic level: first		
Subject name	hours	the week
History of Orthosis	2	1
Motor disability	2	2
Foot deformities (FO)	2	3

Foot deformities	2	4
Foot deformities	2	5
Foot deformities	2	6
Ankle deformities	2	7
Foot deformities	2	8
Foot deformities	2	9
Foot deformities	2	10
knee deformities	2	11
Foot deformities	2	12
Foot deformities	2	13
Foot deformities	2	14
Hip deformities HKFO	2	15

Theoretical curriculum material in English CodeIPT 111		
Study subject: manufacture of limbs above the knee. Academic level: first		
Subject name	hours	the week
Pelvic deformities Orthosis	2	1
Pelvic deformities Orthosis	2	2
Pelvic deformities Orthosis	2	3
Fracture brace	2	4

Fracture brace	2	5
Fracture brace	2	6
Toricles and body	2	7
Toricles and body	2	8
Upper limb deformity	2	9
Upper limb orthosis	2	10
Upper limb orthosis	2	11
Upper limb orthosis	2	12
Upper limb orthosis	2	13
Upper limb orthosis	2	14
Exam	2	15

Theoretical curriculum material in English CodeIPT 117		
Study subject: microbiology. Academic level: first		
Classification of microorganism: fungi , algae, protozoa, bacteria, mycoplasma, viruses, reckitsia .	hours	the week
general structure of bacteria : bacterial structure, cell wall, cytoplasmic membrane capsule, protoplasm including cytoplasm and nucleus. comparison between prokarytic and eukaryotic cells.	2	1
Bacterial spores: types of spores that are resistant to environmental conditions.	2	2
environment condition effect the growth of bacteria oxygen temperature , moisture PH , light , osmotic pressure , culture media - stages of bacterial growth :- lag phase , log phase , stationary phase , decline phase .	2	3

bacterial growth inhibition: sterilization and disinfection.	2	4
sterilization by radiation and filtration chemical sterilization .	2	5
Medical bacteria: Staphylococcus aureus, albus general characters, toxin , pathogenicity treatment.	2	6
Streptococcus: s.viridans , s.faccalis , s.pyogens general structure, culture Media pathogenicity . streptococcus pneumoniae : - general structure, diseases, treatment.	2	7
neisseria group: general structure, meningococci, general structure, disease. mycobacteria : - mycobacterium tuberculosis types, general structure, culture media resistance, disease cause, identification, treatment. mycobacterium leprae : - general characters , pathogenicity, diagnosis, treatment.	2	8
Clostridia (anaerobic): General characters, Clostridium tetani :- description, disease factors in hance growth in the wounds, prevention treatment.	2	9
gas gangar in clostridia: description , disease, treatment, food, poisoning, clostridia, toxin secreted in the foods, symptoms, treatment. bacillus anthrax, description, disease, treatment	2	10
intestinal bacteria types , medical importance , general characters , cultures identification . pathogenic intestinal bacteria, salmonella group, salmonella typhi, salmonella paratyphi, salmonella typhimurium . symptoms poisoning ,treatment	2	
shigella , disease , treatment , shigella food poisoning , symptoms , proteus , discription , culture	2	11
brucella, general characters, disease, diagnosis, treatment. bordetella , discription morphology and culture, disease, treatment.	2	12

vibrio as : cholerae, general character , disease, identification, treatment	2	13
Classification of microorganism: fungi , algae, protozoa, bacteria, mycoplasma, viruses, reckitsia .	2	14
general structure of bacteria : bacterial structure, cell wall, cytoplasmic membrane capsule, protoplasm including cytoplasm and nucleus. comparison between prokaryotic and eukaryotic cells.	2	15

Theoretical curriculum material in English CodeIPT 204		
Study subject: Manufacture of orthotics for the upperlimbsStudy level: Second .		
Subject name	hours	the week
Pelvic deformities Orthosis	2	1
Pelvic deformities Orthosis	2	2
Pelvic deformities Orthosis	2	3
Fracture brace	2	4
Fracture brace	2	5
Fracture brace	2	6
Toricles and body	2	7
Toricles and body	2	8
Upper limb deformity	2	9
Upper limb orthosis	2	10

Upper limb orthosis	2	11
Upper limb orthosis	2	12
Upper limb orthosis	2	13
Upper limb orthosis	2	14
Exam	2	15

Academic subject: professional ethics. Academic level: second Code: NTU 201		
Subject name	hours	the week
Profession definition	2	1
The historical roots of professional ethics	2	2
Principles and etiquette of the profession among the Arabs	2	3
Principles and ethics of the profession in the Holy Quran and the Sunnah	2	4
Kinds of behavior	2	5
factors affecting behavior	2	6
Types of communication and factors affecting them	2	7
How values are transmitted	2	8
Define habits	2	9
Methods for evaluating habits	2	10
Exam	2	11
Types of personality	2	12
Specifications of the practitioner and how to deal with patients	2	13
profession constitutions	2	14
Exam	2	15