

## Course description

Name of the course:	
lower limbs orthosis manufacturing	
Course code	
IPT206	
Semester/Year:	
Second semester/second level	
Date this description was prepared:	
7-4-2024	
Available attendance forms:	
Presence	
Number of academic hours (total) / number of units (total):	
30theoretical hours / 90 practical hours / number of units 8	
Objectives of the course	
<p>1-Efficiency in communicating with workers in the field of support industry and exchanging experiences</p> <p>-2 Emphasizing the knowledge and skill required to perform duties and responsibilities.</p> <p>Technician in prosthetics. Efficiently. 3-The ability to identify amputation areas and find the appropriate support for them</p> <p>-4The ability to use molding and sculpting devices to achieve optimal manufacturing.</p>	Objectives of the study subject

Teaching and learning strategies:

<p>-Brainstorming strategy - Teamwork strategy - Discussion strategy  Case study strategy - inductive teaching strategy - concept maps  strategy Yamiyah - Practical field training strategy - Self-learning  strategy  -E-learning strategy</p>	<p>Education strategies</p>
<p>-Study strategy  Conclusion Strategy - Spaced Practice Strategy - Switching  Strategy B Ideas - strategy for providing examples</p>	<p>Learning strategies</p>
<p>Course structure:</p>	

Study subject: Manufacturing orthotics for the lower limbs.			Study stage: Second		
Evaluation method	Learning method	Subject name	Required learning outcomes	hours	The week
Tests and reports	Theoretical + practical	History of Orthosis	Knowledge and practical application	8	1
Tests and reports	Theoretical + practical	Motor disability	Knowledge and practical application	8	2
Tests and reports	Theoretical + practical	Foot deformities (F.O)	Knowledge and practical application	8	3
Tests and reports	Theoretical + practical	Foot deformities	Knowledge and practical application	8	4
Tests and reports	Theoretical + practical	Foot deformities	Knowledge and practical application	8	5
Tests and reports	Theoretical + practical	Foot deformities	Knowledge and practical application	8	6
Tests and reports	Theoretical + practical	Ankle deformities	Knowledge and practical application	8	7
Tests and reports	Theoretical + practical	Foot deformities	Knowledge and practical application	8	8
Tests and reports	Theoretical + practical	Foot deformities	Knowledge and practical application	8	9
Tests and reports	Theoretical + practical	Foot deformities	Knowledge and practical application	8	10
Tests and reports	Theoretical + practical	knee deformities	Knowledge and practical application	8	11
Tests and reports	Theoretical + practical	Foot deformities	Knowledge and practical application	8	12
Tests and reports	Theoretical + practical	Foot deformities	Knowledge and practical application	8	13
Tests and reports	Theoretical + practical	Hip deformities HKFO	Knowledge and practical application	8	14
Tests and reports	Theoretical + practical	Exam	Knowledge and practical application	8	15

10. Course structure:

11.Evaluation of the course	
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.	
- The semester exam is 40 marks. -Final exam: 60 marks	
12. Learning and teaching resources	
Available in the institute's library	The methodical book
Available in the institute's library	External sources

### **Course description**

Name of the course:
Biomechanics of orthosis
Course code
IPT 208
Semester/Year:
Second semester/second level
The date this description was prepared:

7 / 4 / 2024	
Available forms of attendance:	
Presence	
6. Number of academic hours (total) / Number of units (total):	
15 theoretical hours / 30 practical hours/ Number of units 3	
7. Objectives of the course	
<p>1-The ability to master angles and deviations when manufacturing limbs</p> <p>-2 Efficiency in distributing the stress on the amputated limb</p>	Objectives of the academic subject
8. Teaching and learning strategies:	
<p>-Brainstorming strategy - Teamwork strategy - Discussion strategy Case study strategy - inductive teaching strategy - concept maps strategy Yamiyah - Practical field training strategy - Self-learning strategy</p> <p>-E-learning strategy</p> <p>-Study strategy Conclusion Strategy - Spaced Practice Strategy - Switching Strategy B Ideas - strategy for providing examples</p>	<p>Education strategies</p> <p>Learning strategies</p>

9.Course structure					
Study subject: Biomechanics,			second stage		
Evaluation method	Learning method	Subject name	Required learning outcomes	hours	The week
Tests and reports	Theoretical + practical	Mechanics of Orthosis	Knowledge and practical application	3	1
Tests and reports	Theoretical + practical	Moment of equilibrium.	Knowledge and practical application	3	2
Tests and reports	Theoretical + practical	Free body diagram	Knowledge and practical application	3	3
Tests and reports	Theoretical + practical	Bending moment	Knowledge and practical application	3	4
Tests and reports	Theoretical + practical	Design of Orthosis	Knowledge and practical application	3	5
Tests and reports	Theoretical + practical	Function of orthosis joint	Knowledge and practical application	3	6
Tests and reports	Theoretical + practical	Affected of joint on gait	Knowledge and practical application	3	7
Tests and reports	Theoretical + practical	Kinamtics and acceleration	Knowledge and practical application	3	8
Tests and reports	Theoretical + practical	Equilibrium for ankle deformity	Knowledge and practical application	3	9
Tests and reports	Theoretical + practical	Effectted of rigidity equipment	Knowledge and practical application	3	10
Tests and reports	Theoretical + practical	Mechanic of function of AFO	Knowledge and practical application	3	11
Tests and reports	Theoretical + practical	Examine the AFO	Knowledge and practical application	3	12
Tests and reports	Theoretical + practical	Biomechanics of ankle foot deformity	Knowledge and practical application	3	13
Tests and reports	Theoretical + practical	Biomechanics of ankle foot gait	Knowledge and practical application	3	14
Tests and reports	Theoretical + practical	Exam	Knowledge and practical application	3	15

11. Course evaluation	
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.	
<ul style="list-style-type: none"> <li>- The semester exam is 40 marks.</li> <li>-Final exam: 60 marks</li> </ul>	
12. Learning and teaching resources	
Available in the institute's library	The methodical book

Available in the institute's library	External sources
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### Course description

Name of the course:	
Manufacturing of upper limbs prosthesis	
Course code	
IPT 209	
Semester/Year:	
First semester/second level	
The date this description was prepared:	
7 / 4 / 2024	
Available forms of attendance:	
Presence	
Number of academic hours (total) / Number of units (total):	
15 theoretical hours / 30 practical hours / number of units 3	
Objectives of the course	
<ul style="list-style-type: none"> <li>-1 Competence in dealing with patients during the installation of a hand or arm</li> <li>-2 Proficiency in casting special molds and the hand carving method</li> <li>-3 The ability to interact with those specialized in the field of handicrafts.</li> <li>-4 Distinguish between what is required, whether the case requires an electronic or mechanical hand</li> </ul>	Objectives of the academic subject

Teaching and learning strategies:

-Brainstorming strategy - Teamwork strategy - Discussion strategy  
Case study strategy - inductive teaching strategy - concept maps  
strategy Yamiyah - Practical field training strategy - Self-learning  
strategy  
-E-learning strategy

Study strategy  
Conclusion Strategy - Spaced Practice Strategy - Switching  
Strategy B Ideas - strategy for providing examples

Education strategies

Learning strategies



The second phase		Article: Manufacturing of replacements for the upper limbs	9- Course structure		
Evaluation method	Learning method	Subject name	Required learning outcomes	hours	The week
Tests and reports	Theoretical + practical	Cosmetic prosth. For partial	Knowledge and practical application	5	1
Tests and reports	Theoretical + practical	Cosmetic prosth. For partial	Knowledge and practical application	5	2
Tests and reports	Theoretical + practical	Cosmetic prosth for blow elbow	Knowledge and practical application	5	3
Tests and reports	Theoretical + practical	Cosmetic prosth for above elbow	Knowledge and practical application	5	4
Tests and reports	Theoretical + practical	Cosmetic prosth for above elbow	Knowledge and practical application	5	5
Tests and reports	Theoretical + practical	Cosmetic prosth for above elbow	Knowledge and practical application	5	6
Tests and reports	Theoretical + practical	Cosmetic prosth through shoulder	Knowledge and practical application	5	7
Tests and reports	Theoretical + practical	Cosmetic prosth through shoulder	Knowledge and practical application	5	8
Tests and reports	Theoretical + practical	Stump examination	Knowledge and practical application	5	9
Tests and reports	Theoretical + practical	Mechanical prosth. through' .wrist	Knowledge and practical application	5	10
Tests and reports	Theoretical + practical	Mechanical prosth. through below elbow	Knowledge and practical application	5	11
Tests and reports	Theoretical + practical	Mechanical prosth. through below elbow	Knowledge and practical application	5	12
Tests and reports	Theoretical + practical	Mechanical prosth. through above elbow	Knowledge and practical application	5	13
Tests and reports	Theoretical + practical	Mechanical prosth. through above elbow	Knowledge and practical application	5	14
Tests and reports	Theoretical + practical	Introduction about the myoelectric prosth.	Knowledge and practical application	5	15

Course evaluation

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.

- The semester exam is 40 marks.
- Final exam: 60 marks

#### Learning and teaching resources

Available in the institute's library

The methodical book

Available in the institute's library

External sources

## Course description

Name of the course:	
Properties of Material	
2. Course code	
IPT 213	
3. Semester/Year:	
First semester/second level	
4.The date this description was prepared:	
7 / 4 / 2024	
5. Available forms of attendance:	
Presence	
Number of academic hours (total) / Number of units (total):	
30theoretical hours / number of units 2	
Objectives of the course	
1-The ability to use various types of materials -2 The ability to develop solutions and find alternative materials in the event that the quantities required to complete the work are not available 3- Proficiency in dealing with introducing materials into the interaction template	Objectives of the academic subject
8. Teaching and learning strategies:	

<p>-Brainstorming strategy - Teamwork strategy - Discussion strategy  Case study strategy - inductive teaching strategy - concept maps strategy Yamiyah - Practical field training strategy - Self-learning strategy  -E-learning strategy</p> <p>-Study strategy  Conclusion Strategy - Spaced Practice Strategy - Switching Strategy B Ideas - strategy for providing examples</p>	<p>Education strategies</p> <p>Learning strategies</p>
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The second stage		Name of the material: Properties of materials		9- Course structure	
Tests and reports	Theoretical + practical	Power and energy systems	Knowledge and practical application	3	1
Tests and reports	theoretical	Work and stress	Knowledge and practical application	3	2
Tests and reports	theoretical	Stress and tension	Knowledge and practical application	3	3
Tests and reports	theoretical	Stress and emotion	Knowledge and practical application	3	4
Tests and reports	theoretical	The breed and its types	Knowledge and practical application	3	5
Tests and reports	theoretical	The relationship between stress and tension	Knowledge and practical application	3	6
Tests and reports	theoretical	Constant movement	Knowledge and practical application	3	7
Tests and reports	theoretical	Hooke's law	Knowledge and practical application	3	8
Tests and reports	theoretical	Kinetic measurements	Knowledge and practical application	3	9
Tests and reports	theoretical	Fragility	Knowledge and practical application	3	10
Tests and reports	theoretical	Plastic for orthotics and prosthetics	Knowledge and practical application	3	11
Tests and reports	theoretical	Thermal plastic	Knowledge and practical application	3	12
Tests and reports	theoretical	Plastic T.H/PP.RT/PVC/ACP	Knowledge and practical application	3	13
Tests and reports	theoretical	Plastic LT and its application	Knowledge and practical application	3	14
Tests and reports	theoretical	Thermal assembly	Knowledge and practical application	3	15

10.Course evaluation	
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.	
<ul style="list-style-type: none"> <li>- The semester exam is 30 marks.</li> <li>-Final exam 70 marks</li> </ul>	
Learning and teaching resources	
Available in the institute's library	The methodical book
Available in the institute's library	External sources

## Course description

Name of the course:	
English language	
Course code	
NTU 101	
Semester/level:	
First semester/first level	
Date this description was prepared:	
2024-4-7	
5. available attendance forms:	
Presence	
6. Number of academic hours (total) / number of units (total):	
30 theoretical hours / number of units 2	
7. Objectives of the course	
<p>1 The primary goal of studying the English language is to become familiar with the basics of the English language and its general rules, to know the methods of conversations and to quote medical phrases, to be competent in accessing the latest information through the student's proficiency in the language.</p>	Objectives of the academic subject
8. Teaching and learning strategies:	

- Brainstorming strategy - Teamwork strategy - Discussion strategy Case study strategy - inductive teaching strategy - concept maps strategy Yamiyah - Practical field training strategy - Self-learning strategy - E-learning strategy	Teaching strategies
-Study strategy Conclusion strategy - Spaced practice strategy - Switch-up strategy Ideas - strategy for providing examples	Learning strategies

9. Study subject: English. Study stage: First

Evaluation method	Learning method	Subject name	Required learning outcomes	hours	The week
Tests and reports	theoretical	Definition of basic English terms	Knowledge and application	2	1
Tests and reports	theoretical	English Language How many units are three in English	Knowledge and application	2	2
Tests and reports	theoretical	The eight parts of speech	Knowledge and application	2	3
Tests and reports	theoretical	Parts of speech2	Knowledge and application	2	4
Tests and reports	theoretical	Conversation	Knowledge and application	2	5
Tests and reports	theoretical	Department of prosthetics and ambulance	Knowledge and application	2	6
Tests and reports	theoretical	Verb to be 1	Knowledge and application	2	7
Tests and reports	theoretical	Verb to be 2	Knowledge and application	2	8
Tests and reports	theoretical	Prepositions1	Knowledge and application	2	9
Tests and reports	theoretical	Preposition 2	Knowledge and application	2	10
Tests and reports	theoretical	Punctuation marks	Knowledge and application	2	11
Tests and reports	theoretical	Simple past tense	Knowledge and application	2	12
Tests and reports	theoretical	Simple past continuous tense	Knowledge and application	2	13
Tests and reports	theoretical	Past perfect tense	Knowledge and application	2	14
Tests and reports	theoretical	Sentence types	Knowledge and application	2	15



10.Course evaluation	
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.	
Semester exam: 30 marks - Final exam: 700 marks	
11. Learning and teaching resources	
Available in the institute's library	Required prescribed books (methodology) found
Available in the institute's library	Main references (sources)
Available in the institute's library	Recommended supporting books and references (scientific journals, reports,
	Electronic references, Internet sites

## Course description

1 .Name of the course:	
Biomechanics of prosthetics	
2 .Course code	
IPT 112	
3 .Semester/level:	
First semester/first level	
4 .Date this description was prepared:	
7 / 4 / 2024	
5 .Available attendance forms:	
Presence	
6 .Number of academic hours (total) / number of units (total):	
30 practical hours + 15 theoretical hours / number of units 3	
7 .Objectives of the course	
	Objectives of the academic subject
Ability to master angles and deflections when manufacturing limbs.	
The ability to put problems into perspective and find appropriate solutions.	
Ability to use modern methods and tools specialized in manufacturing	
Efficiency in distributing stress on the amputated limb	

Brainstorming strategy - Teamwork strategy - Discussion strategy  Case study strategy - inductive teaching strategy - concept maps strategy Yamiyah - Practical field training strategy - Self-learning strategy  E-learning strategy -	Teaching strategies
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-Study strategy  
 -Conclusion strategy - Divergent practice strategy - Switching strategy  
 Ideas - strategy for providing examples

Learning strategies

8. Course structure:  
 1-Course structure

Study subject: Biomechanics of prosthetics

Study stage: First

Evaluation method	Learning method	Subject name	Required learning outcomes	hours	the week
Tests and reports	Theoretical + practical	Terminology of biomechanics	Knowledge and practical application	3	1
Tests and reports	Theoretical + practical	Study of force and its component.	Knowledge and practical application	3	2
Tests and reports	Theoretical + practical	Static and dynamic equilibrium.	Knowledge and practical application	3	3
Tests and reports	Theoretical + practical	Gait analysis	Knowledge and practical application	3	4
Tests and reports	Theoretical + practical	Relation ship between gait and force for B.K prosthesis.	Knowledge and practical application	3	5
Tests and reports	Theoretical + practical	Relation ship between gait and force for B.K prosthesis.	Knowledge and practical application	3	6
Tests and reports	Theoretical + practical	Force distribution on symes prosthesis	Knowledge and practical application	3	7
Tests and reports	Theoretical + practical	design the symes prosthesis	Knowledge and practical application	3	8
Tests and reports	Theoretical + practical	Exam	Knowledge and practical application	3	9
Tests and reports	Theoretical + practical	Alignment of symes prosthesis , the type of windows in the socket	Knowledge and practical application	3	10
Tests and reports	Theoretical + practical	Biomechanics of T.K prosthesis	Knowledge and practical application	3	11
Tests and reports	Theoretical + practical	Alignment and force distribution of T.K prosthesis	Knowledge and practical application	3	12

Tests and reports	Theoretical + practical	Alignment and force distribution of T.K prosthesis	Knowledge and practical application	3	13
Tests and reports	Theoretical + practical	Biomechanics of A.k Prosthesis	Knowledge and practical application	3	14
Tests and reports	Theoretical + practical	Check out of A.K and T.K prosthesis	Knowledge and practical application	3	15

#### 9 .Evaluation of the course

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today and daily, oral and monthly exams  
editorial and reporting

- The semester exam is 40 marks.
- Final exam: 60 marks

#### 10 .Learning and teaching resources

Available in the institute's library

Required prescribed books (methodology) found(

Available in the institute's library

Main references (sources)

Recommended supporting books and references (scientific journals, reports)

USP

Electronic references, Internet sites

## Course description

1 .Name of the course:	
Locomotors Diseases	
2 .Course code	
IPT 113	
3 .Semester/level:	
First semester/first level	
4 .Date this description was prepared:	
7 / 4 / 2024	
5 .Available attendance forms:	
Presence	
6 .Number of academic hours (total) / number of units (total):	
30 theoretical hours / number of units 2	
7 .Objectives of the course	
-The ability to interact with people in several fields within one specialty, the ability to put problems into perspective and find appropriate solutions, the ability to use modern means to reach appropriate treatment methods, and distinguish between diseases related to the limbs and not others by diagnosing them accurately..	Objectives of the academic subject
8 .Teaching and learning strategies:	

-Brainstorming strategy - Teamwork strategy - Discussion strategy -Case study strategy - Inductive teaching strategy - Alpha maps strategy Himiya - Practical field training strategy - Self-learning strategy -E-learning strategy  -Study strategy -Conclusion strategy - Divergent practice strategy - Switching strategy Ideas - strategy for providing examples	Teaching strategies
9 .Course structure:	

Study subject: Diseases of the locomotor system.			Study stage: First		
Evaluation method	Learning method	Subject name	Required learning outcomes	hours	the week
Tests and reports	theoretical	Introduction in orthopedic	Knowledge	2	1
Tests and reports	theoretical	Glossary terminology ;[orthoepadic med. Terms]	Knowledge	2	2
Tests and reports	theoretical	Clinical methods & approached. History , investigations & examination.	Knowledge	2	3
Tests and reports	theoretical	Clinical methods & approached. History , Investigations & examination.	Knowledge	2	4
Tests and reports	theoretical	Deformities :general causes / A cqwired &congenital	Knowledge	2	5
Tests and reports	theoretical	Cont. :common deformities	Knowledge	2	6
Tests and reports	theoretical	Arthritis : acute &chronic : definition , clinical exam	Knowledge	2	7
Tests and reports	theoretical	Arthritis :clinical features ; diagnoses & management	Knowledge	2	8
Tests and reports	theoretical	Arthritis : RA, OA, infective & gout	Knowledge	2	9
Tests and reports	theoretical	Bone tumors : Benign& malignant	Knowledge	2	10
Tests and reports	theoretical	Introduction in neurological disease , locomotors disorders	Knowledge	2	11
Tests and reports	theoretical	Cerebral palsy	Knowledge	2	12
Tests and reports	theoretical	Fractures : complication	Knowledge	2	13
Tests and reports	theoretical	Uses of orthosis in soft tissue dis & injuries	Knowledge	2	14
Tests and reports	theoretical	Revision	Knowledge	2	15

10 .Evaluation of the course

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.	
-The semester exam is 30 marks. -Final exam 70 marks	
11 .Learning and teaching resources	
Available in the institute's library	Required prescribed books (methodology) found(
Available in the institute's library	Main references (sources)
	Recommended supporting books and references (scientific journals, reports,
world wide web	Electronic references, Internet sites

## Course description

1 .Course name:	
Computer	
2 .Course code	
NTU 102	
3 .Semester/Level:	
First semester/first level	
4 .Date this description was prepared:	
2024 / 4 / 7	
5 .Available forms of attendance:	
Presence	
6 .Number of academic hours (total) / number of units (total):	
15theoretical hours + 15 practical hours / number of units 2	
7 .Course objectives	
This course aims to study programs (Windows, Microsoft Word) and train the student to use its basics and tools that will serve the student for the coming years in all academic fields. and the process	Objectives of the study subject
8 .Teaching and learning strategies:	



-Brainstorming strategy - Group work strategy - Discussion strategy -Case study strategy - Inductive teaching strategy - Conceptual mapping strategy - Practical field training strategy - Self-learning strategy -E-learning strategy	Education strategies
- Study strategy - conclusion strategy -Spaced practice strategy - Strategy of switching between ideas - Strategy of providing examples	Learning strategies

9. Course structure:

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	hours	The week
Reports, assignments, oral and written theoretical exams, semi-semester And quarterly	Blackboard powerpoint slides e-learning	The basics of the system and its main tools. A detailed explanation of the desktop The taskbar in Windows 2011	Cognitive outputs Knowing what the Windows system is, its importance and its role in providing an ideal study environment for the student and the teacher at the same time	2	1
		-System settings Basic and how Change it accordingly the purpose	the time		
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning		Acquiring skills	2	2
			How to deal with the details of the examination paper that is designed Using the Remark program and avoiding errors that affect the way the program reads the student's answer,		
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Study the properties of the calculator related to the existing system		2	3

Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Discuss common mistakes - And ways to deal with it	- which is reflected in the student's test result	2	4
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Pros and Cons the system	How to work with tools and menus Programs	2	5

Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Windows 2011 system interface Operational	The student must be familiar with how to open and use the program  How to access it in the calculator and know the most important uses of these programs for them as a student	2	6
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	A detailed explanation of the desktop and taskbar in the Windows 2011 operating system		2	7
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Introduction to Word 2010		2	8
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Explain how to use the tools in a program The rose		2	9
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	The different fields in which the Word program is included		2	10
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Detailed explanation of lists the program		2	11
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Linking the program to programs Other		2	12
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Software updates		2	13

Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Discuss the types of designs available in the program	2	14
Semi-semester oral and written theoretical exams And quarterly	Blackboard powerpoint slides e-learning	Pros and Cons	2	15
Semi-semester oral and written theoretical exams		the program		

#### 10. Course evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation and daily, oral, and monthly exams  
Editorial, reports, etc

- The semester exam is 40 marks
- Final exam: 60 marks

#### 11. Learning and teaching resources

	Required textbooks (methodology, if any).
Windows 2011 Microsoft office 2010	Main references (sources).
	Recommended supporting books and references (scientific fields, reports,
<a href="https://www.microsoft.com/software-download/windows11">https://www.microsoft.com/software-download/windows11</a>	Electronic references, Internet sites



Study subject: Anatomy of the lower extremities			Study stage: First		
Evaluation method	Learning method	Subject name	Required learning outcomes	hours	the week
Tests and reports	Theoretical + practical	Introduction in anatomy and term of anatomy	Knowledge and practical application	3	1
Tests and reports	Theoretical + practical	Classify of bone and kind of bone	Knowledge and practical application	3	2
Tests and reports	Theoretical + practical	Bone of Lower extremity- pelvic bone	Knowledge and practical application	3	3
Tests and reports	Theoretical + practical	Bone of Femur	Knowledge and practical application	3	4
Tests and reports	Theoretical + practical	Bone of Tibia , Fibula	Knowledge and practical application	3	5
Tests and reports	Theoretical + practical	Bones of Foot	Knowledge and practical application	3	6
Tests and reports	Theoretical + practical	Introduction in Muscular system	Knowledge and practical application	3	7
Tests and reports	Theoretical + practical	The kind of muscles	Knowledge and practical application	3	8
Tests and reports	Theoretical + practical	The muscles of anterior border of pelvic reign (origin, insertion and action)	Knowledge and practical application	3	9
Tests and reports	Theoretical + practical	The muscles of posterior border of pelvic reign (origin, insertion and action)	Knowledge and practical application	3	10
Tests and reports	Theoretical + practical	The muscles of Iliac border of pelvic reign (origin, insertion and action)	Knowledge and practical application	3	11
Tests and reports	Theoretical + practical	The muscles of the anterior border of Thigh reign (origin, insertion and action)	Knowledge and practical application	3	12
Tests and reports	Theoretical + practical	The muscles of posterior border of Thigh reign (origin, insertion and action)	Knowledge and practical application	3	13
Tests and reports	Theoretical + practical	The muscles of medial & lateral border of Thigh reign (origin, insertion and action)	Knowledge and practical application	3	14
Tests and reports	Theoretical + practical	Exam	Knowledge and practical application	3	15

10. Course evaluation	
Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation and daily, oral, and monthly exams Editorial, reports, etc	
-The semester exam is 40 marks -Final exam: 60 marks	
11. Learning and teaching resources	
Available in the institute's library	Required textbooks (methodology, if any).
Available in the institute's library	Main references (sources.(
	Recommended supporting books and references (scientific fields, reports)
Internet	Electronic references, Internet sites

## Course description

1 .Name of the course:	
Medical Terminology	
2 .Course code	
TID 109	
3 .Semester/level:	
First semester/first level	
4 .Date this description was prepared:	
2024 /4 / 7	
5 .Available attendance forms:	
Presence	
6 .Number of academic hours (total) / number of units (total):	
30hours of my vision (2 units per hour)	
7 .Objectives of the Course	
-In this course, students learn to pronounce medical terms used in health care settings. The student will be able to use a word construction strategy that helps them discover connections and relationships between word roots, prefixes, and suffixes.	Objectives of the academic subject
8 .Teaching and learning strategies:	





Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	The genitals and urinary tract	4 .Describe the important medical term for the two renal systems. And reproductive.	1	4
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	The gastrointestinal tract	5. Description of the medical term Important for the digestive system.	1	5
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	The heart and cardiovascular system	6 .Description of the important medical term used in Cardiovascular system.	1	6
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Symptoms, diagnoses, treatments, communication qualifiers, and statistics.	7. Description of the important medical term in the field of disease. And treatment.	1	7
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Growth and development	8 .Description of the medical term. Important for growth and development.	1	8
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Gynecology	9 .Description of the important medical term in gynecology. Pregnancy and childbirth.	1	9
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	The eye	10 .Description of the important medical term for eye conditions. And dissect it.	1	10

Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	The nervous system	11 .Description of the important medical term in the nervous system. and behavioral disorders.	1	11
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Blood and immunity	12 .Description of the medical term. Important in blood and immunity.	1	12
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Bone and joint	13 .Description of the medical term. Important for bones and joints.	1	13
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Blood and immunity	14 .Description of the medical term. Important in blood and immunity.	1	14
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	The respiratory tract	15 .Description of the medical term for the respiratory system.	1	15

#### 10. Evaluation of the course

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.

- The semester exam is 30 marks.
- The final exam is 70 marks.

#### 11 .Learning and teaching resources

Edward CC, (Ed.); A Short course in Medical Terminology; Latest edition; Lipincott Williams and Wilkins.	Required prescribed books (methodology, if any)
Text book	Main references (sources)
Barbara A. Gyls, Regina M. Masters. Medical terminology simplified : a programmed learning approach by body systems; Latest edition. Barbara Janson Cohen, Ann DePetris. Medical terminology : an illustrated guide; Latest edition Pharmacy times (journal) Us pharmacist (journal)	Recommended books and supporting references (journals Scientific, reports) ,
The electronic library of the Ministry of Higher EducationPub med.gov & NCBI <input type="checkbox"/> UpToDate electronic encyclopedia	Electronic references, Internet sites

## Course description

1 .Name of the course:	
Biostatistics	
2 .Course code	
TID 202	
3 .Semester/Year:	
First semester/second year	
4 .Date this description was prepared:	
4 / 4 / 2024	
5 .Available attendance forms:	
Presence	
6 .Number of academic hours (total) / number of units (total):	
30theoretical hours / number of units 2	
7 .Objectives of the course	
<p>1 -The main goal is to give students the ability to deal with the concept To count,</p> <p>2-Emphasizing the knowledge and skill required to perform duties and responsibilities. Technician in prosthetics. Efficiently.</p> <p>-3Applying the concept of biostatistics applications in the medical field</p> <p>4 -Upon completion of the course, students will be able to understand statistics applications. This includes the medical field.</p>	<p>Objectives of the academic subject</p>
8 .Teaching and learning strategies:	

<ul style="list-style-type: none"> <li>-Brainstorming strategy</li> <li>- Teamwork strategy</li> <li>- Discussion strategy</li> <li>-Case study strategy</li> <li>- Inductive teaching strategy</li> <li>- Alpha maps strategy The importance of the practical field training - strategy</li> <li>-Self-learning strategy</li> <li>-E-learning strategy</li> <li>-Study strategy</li> <li>-Conclusion strategy</li> <li>- Divergent practice strategy</li> <li>- Switching strategy Where are the ideas?</li> <li>-Strategy for providing examples</li> </ul>	Teaching strategies
	Teaching strategies

9 .Course structure:

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	Hours	The week
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint E-learning	Coordinates and graphing functions In the plane - functions - absolute value - inequalities	Basic concepts of mathematics	3	1
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint E-learning	The function of displacement, inclination, and the equation of a straight line	straight line equation	3	2
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint E-learning	The price theory and continuation conditions	Expensive and continuity	3	3
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint E-learning	The goal of infinity, continuity conditions, and applications	The included cost is infinity.	3	4

Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	Introduction to statistics, statistical concepts, and statistical methods	Bio statistics	3	5
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Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	Statistical theory and its applications	Statistical concepts	3	6
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	Probability properties; Set theory and group notation (basic notation)	The concept of probability	3	7
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	Counting techniques - permutations and combinations; Calculate the probability of events	Arithmetic and counting techniques	3	8
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	The probability distribution of the variable separate; Binomial distribution, Poisson distribution	Boisson distribution	3	9
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	For a continuous probability distribution and natural distribution	Probability distribution	3	10
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	Sample mean The average population size; The median; put Measure of central tendency; Review questions and exercises	The concept of al-Nazi'a al-Maqziyyah comparison	3	11
			The derivative		
			The derivative of trigonometric functions		
			Integration		

Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	Differentiation rules, the tangent line to the curve, and applications	3	12
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	مشقة The trigonometric function, its applications, and exercises	3	13
Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	Coefficient of differences Conventional error; Correlation analysis Application of statistics in the medical field. Review the questions ..And exercises	3	14

Reports, Assignments, oral and written theory exams, mid-term and semester	Blackboard PowerPoint slides E-learning	Deviations and differences: deviation; Dispersion and fluctuation. Standard deviation and variance.	Deviation and variance 3	15
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### 10 .Course evaluation

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.

- The semester exam is 30 marks.
- Final exam: 70 marks

### 11 .Learning and teaching resources

Introduction Statistics – seven edition-by Prem S. Mann-  
Calculus-11 edition by Thomas-2005-  
Biostatistics (A Foundation for Analysis in the Health -  
Nine edition- by Wayne W. Daniel-2005 sciences)

The methodical book

Calculus-11 edition by Thomas-2005 Biostatistics (A  
Foundation for Analysis in the Nine edition- by Wayne W.  
Health sciences) Daniel-2005

External sources

## Course description

1 .Name of the course:	
Anatomy	
2 .Course code	
TID 110	
3 .Semester/level:	
First semester/first level	
4 .Date this description was prepared:	
4 / 4 / 2024	
5 .Available attendance forms:	
Presence	
6 .Number of academic hours (total) / number of units (total):	
30 theoretical hours + 30 practical hours / number of units 2	
7 .Objectives of the course	
<p>1.By the end of this semester, students are expected to learn: 1- Study the position of the different organs in the atmosphere. In the thoracic and abdominal systems, including: the digestive system, the circulatory system, the lymphatic system, the respiratory system, and the respiratory system. Ly, reproductive system, endocrine system, nervous system and skin</p> <p>2 -Types of general tissues (epithelial, connective, muscle, nervous, fatty, cartilage, blood) and Learn about the structure of each tissue, where it is found, naming and distinguishing elements, and describe the molecular structure. And its function in a way Short.</p> <p>3 -Definition of (cartilage and bone) tissues and description of their infrastructure and cellular structure outside of them. Description of the tissues Ossification Describe the growth of bone tissue, explain its function, and describe and mention the bones of the axial structure (inside the skull and The vertebrae and chest) and limb bones and the basic criteria for each bone Distinguishing between types of joints and their function.</p>	<p>Objectives of the academic subject</p>
8 .Teaching and learning strategies:	



<p>Graduates must be able to:</p> <p>Distinguish between types of general tissues (epithelial, connective, muscle, nervous, cartilage). (in, cartilage, blood)</p> <p>2 - Examination of a tissue slice at different magnifications - a drawing Illustrations of the types of tissues and general tissues.</p> <p>3- The graduate must have the ability To: - Prepare a scientific report .. - Participation in Scientific Discussion</p> <p>4 The pharmacy student will be able to understand the human body in a timely manner. Many of his studies at the institute, Therefore, he will be able to understand the scientific content of other courses.</p>	Teaching strategies
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9 .Course structure:

Evaluation method	Learning method	Name of the unit or topic	Required learning outcomes	Hours	The week
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	(cell of Installation(review Cell	Cognitive outcomes - The student should be able to know the causes and symptoms And diagnose diseases different	2	1
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Introduction in general anatomy include: kinds of anatomy, Anatomical description, Anatomical terms ,Basic Structures	Determine the - appropriate medication For every medical condition	2	2
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Skeleton bones and Joints	- Know everything related to the effects of therapeutic and offending drugs and contraindications for their use.	2	3
Mid-semester oral and written theory exams And a chapter	Blackboard	Epithelial tissue&	How to treat the patient Educating him about his health	2	4

Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Circulatory system: Location of vascular system (Heart, Arteries, Veins)	Acquiring skills How to work and - meet Seminars and		
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Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Glandular Epithelium & Endocrine system: - location of the pituitary gland - location of the Adrenal, Thyroid, Parathyroid, Islet of Langerhans & Pineal glands	qualitative lectures  Education skill - Medication for patients	2	5
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Digestive system: - location of different parts of digestive tract (GIT) (Oral cavity, Mouth, Esophagus & Stomach) - Small intestine, Large intestine, Rectum & Anus.	Extraction skill - Required information From its sources approved	2	6
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Digestive system: Glands associated with the digestive tract by location (Salivary glands, Pancreas, Liver & Gall bladder).	Emotional outputs And value - thinking skills through translation and analysis Evaluate and extract Ideas	2	7
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Respiratory system: - Conducting portion (Nose, Nasopharynx, Trachea Bronchus & Bronchioles). - Respiratory portion (Lung)	- Implanting moral values To deal correctly with Patients	2	8
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Nervous system: Central & Peripheral nervous system by location	Transferable general and qualification skills (other skills related to employability and personal development.	2	9

Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Lymphoid tissue: location of the (Thymus gland, Spleen & Lymph nodes)	- Performing practical experiments	2	10
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Lymphoid nodule (MALT) & Tonsils	- Acquire the skill in Using the computer	2	11
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Nervous system: Central & Peripheral nervous system by location	Giving the student confidence by During the seminar discussion	2	12
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Male reproductive system: - location of the testes. - Excretory genital ducts - Excretory genital glands (Seminal vesicles, Prostate & Cowper's glands)	-Acquiring the skill in Writing reports -Acquiring the skill in Leadership	2	13
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Female reproductive system: -location of ovary, Oviduct, Uterus & Vagina.	-Acquiring the skill in Dealing	2	14
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Urinary system: - location of the (kidney & nephron) - location of the (Ureter, Bladder & Urethra).		2	15
10 .Evaluation of the course					
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.					
- The semester exam is 40 marks. -Final exam: 60 marks					

11. Learning and teaching resources	
Lipincott Williams & Wilkins	Required prescribed books (methodology) found(
- Clinical Anatomy by Regions (Richard S. Snell 8th ed. 2010).	Main references (sources)
-Simon McGurkJunqueira ,L (2005) Basic Histology Text and Atlas – 11th edition -Stevens A & Lowe, JS (1991). Histology. Gower Medical Publishing -Young, B & Heath, JW (2006). Wheater’s Functional Histology — a Text and Colour Atlas 5thedn. London: Churchill Livingstone.	Recommended supporting books and references (scientific journals, ,reports
FDA	Electronic references, Internet sites

## Course description

1 .Name of the course:
Microbiology
2 .Course code
PHT 120
3 .Semester/level:
First semester/first level
4 .Date this description was prepared:
2024/4/4
5 .Available attendance forms:
Presence
6 .Number of academic hours (total) / number of units (total):
30 theoretical hours + 30 practical hours / number of units 2
7 .Objectives of the course

<p>The primary goal of studying medical microbiology is to provide basic information about Medical bacteriology, which includes giving an introduction to bacteria, including the structure of the bacterial wall and Its pharmacokinetics, bacterial resistance to antibiotics, components of bacterial cells, diseases The nature of bacteria and how they arise, the natural inhabitants of Bacteria, It also includes the study of bacterial systems, giving an example for each group of pathogenic bacteria, and studying these Totals from a pathological perspective Types of diseases Study of the toxins produced, methods of transmission, Methods of diagnosis, methods of treatment, and methods of prevention.</p>	<p>Objectives of the academic subject</p>
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8 .Teaching and learning strategies:

<p>Brainstorming strategy - Teamwork strategy - Discussion strategy -Case study strategy - Inductive teaching strategy - Alpha maps strategy Himiya - Practical field training strategy - Self-learning strategy -E-learning strategy  -Study strategy -Conclusion strategy - Divergent practice strategy - Switching strategy Ideas - strategy for providing examples</p>	<p>Teaching strategies  Teaching strategies</p>
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9 .Course structure:

Evaluation method	Learning method	Name of the unit or topic	Beyond the need to inquire about relevant information	hours	The week
<p>Reports, Assignments, semi-semester oral and written theory exams And a chapter</p>	<p>Blackboard PowerPoint Slides E-Learning</p>	<p>Introduction to Bacterology and classification, Morphology, Cell structures</p>	<p>Cognitive outputs -Student acquisition Basic information For bacteriology - the student should be able to know the causes and symptoms Diagnosing diseases resulting from injuries</p>	<p>3</p>	<p>1</p>
<p>Mid-semester oral and written theory</p>	<p>Blackboard PowerPoint Slides E-Learning</p>	<p>Chemotherapy and sensitivity test</p>	<p>Bacteria</p>	<p>3</p>	<p>2</p>

exams And a chapter					
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Genetic replication in microorganisms,	- Determine the appropriate medication For each disease case - knowing the methods of transmission of bacterial diseases - knowing the methods of prevention Of diseases Bacteria Acquiring skills - How to work and meet Seminars and qualitative lectures - The skill of drug education for patients - The skill of extracting Required information From its sources approved Emotional outputs And value - thinking skills through translation and analysis Evaluate and extract Ideas - implanting moral values for correct dealing with Patients		
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Pathogenicity and pathogenesis, Normal flora		3	3
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Gram Positive cocci: Staphylococcus spp Streptococco spp		3	4
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Gram positive Bacilli: Spore forming bacteria: Clostridium spp Bacillus spp		3	5
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Gram negative cocci: Neisseria meningitidis Neisseria gonorrhoeae		3	6
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Gram negative bacilli: Homophiles spp Corynebacterium spp		3	7
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Zoonotic Bacteria: Brucilla spp, Mycobacterium tuberculosis	(Personal.) - أداء التجارب العملية - اكتساب المهارة في استخدام الحاسوب منح ثقة للطلاب من- خلال مناقشة السمات اكتساب المهارة في- كتابة التقارير اكتساب المهارة في- القيادة اكتساب المهارة في- التعامل	3	8
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Enterobacteriaceae: Introduction, Pseudomonas Bordetella		3	9

Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Helicobacter pylori Escherchia coli Klibeseilla	3	10
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Salmonella Shigella Enerobacteria	3	11

Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	<i>Mycobacterium leprae</i> Anthrax	3	12
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Anaerobic bacteria	3	13
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Citrobacter Serratia Vibrio spp	3	14
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	<i>Propionibacterium acnes</i> , <i>Listeria</i>	3	15

10. Evaluation of the course				
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.				
Semester exam: 40 marks - Final exam: 60 marks				
11. Learning and teaching resources				



Jawetz, Melnick, & Adelberg's Medical Microbiology, 28 the edition 2019,	Required prescribed books (methodology) found(
Review Of Medical Microbiology (by Warren Livenson) Lippincott Microbiology	Main references (sources)
Journal of Medical Microbiology and Infectious Diseases	Recommended supporting books and references (scientific journals, reports,
Daily Science	Electronic references, Internet sites

## Course description

1 .Name of the course:	
Physiology	
2 .Course code	
TID 106	
3 .Semester/level:	
Second semester/first level	
4 .Date this description was prepared:	
4 / 4 / 2024	
5 .Available attendance forms:	
Presence	
6 .I will remain silent only later (I will be silent) / I will not be silent except with certainties (to you:)	
30theoretical hours + 30 practical hours / number of units 2	
7. Objectives of the course	
<p>1) Providing students with a sound scientific and practical theoretical background on many of the physiological principles The basic functions related to the various cells, organs and systems of the body and their relationship to different Covering diseases and necessary treatments, which are necessary and fundamental to understanding the effect of various medications on The effectiveness of the body's systems, as well as it helps and enables students to understand the importance of the science of the functions of the organs. And the practical experience of directly conducting many practical medical physiology experiments and obtaining have practical results that</p> <p>It often translates what students have received in the theoretical part.</p> <p>(2Enabling students to understand the basic principles of the physiological functions of different tissues and organs. Fafa</p> <p>For humans, and how to evaluate these functions and link them to natural and abnormal conditions and the roles of balance</p> <p>Physical in integrating the physiological state of the body.</p>	Objectives of the academic subject
8 .Teaching and learning strategies:	



Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Physiology of Different Muscles <u>Practical Part</u> Measurement of Arterial Blood Pressure by ‘sphygmomanometer’.	Emotional outputs And value - thinking skills through translation Analyze, evaluate and extract Ideas - implanting values Ethical principles of correct dealing with patients Transferable general and qualifying skills (other skills related to employability and To develop (Personal.)	3 2	1
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Physiology of Nerves: A) Nerve cells: <u>Practical Part</u> Re-experiment of blood pressure and comparison the results with electronic device results.	Performing - experiments The process - acquiring the skill In using the computer	32	3
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	B) Synaptic transmission: <u>Practical Part</u> Experiment of Cardiovascular responses(CVR) to exercises.	Giving the - student confidence Through discussion Seminars - Acquiring the skill in writing reports - Acquiring the skill In leadership - acquiring the skill In dealing and the spirit of teamwork Joint efforts (and stimulating the spirit of one team)	32	4
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Respiration A) Respiratory zones; <u>Practical Part</u> Measurement of arterial blood pressure in different positions_ supine & standing positions.		32	5
	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	B) Gas transport between the lungs and tissues;		3	6

,Reports Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	<u>Practical Part</u> Experiment of Clinical Thermometry (body temperature) Part 1.	2	
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	A) Introduction of renal Physiology: <u>Practical Part</u> Experiment of Clinical Thermometry (body temperature) Part 2.	32	7
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	B) Tubuloglomerular feedback and glomerulotubular balance; <u>Practical Part</u> Experiment of Triple response.	3 2	8
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Cardiovascular System: <u>Practical Part</u> Experiment of Lung Functions Test Part 1.	32	9
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	A) Origin and spread of cardiac excitation; B) Mechanical events of the cardiac cycle and cardiac output; <u>Practical Part</u> Experiment of Lung Functions Test Part 2.	32	10
	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	C) Local regulatory mechanisms: Hypertension; Heart	3	11

Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	failure; and Angina pectoris. <u>Practical Part</u> Experiment of Capillary Fragility Test, or (Hess Test) capillary resistance test.	2	
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory		3 2	12
			3 2	13
			3 2	14
			3 2	15

10. Evaluation of the course

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.

- The semester exam is 40 marks.
- Final exam: 60 marks

11. Learning and teaching resources

Guyton and Hall: Textbook of Medical Physiology. 14 <sup>ed</sup> , 2022. Ganong's Review of Medical Physiology. 25 <sup>ed</sup> , 2016. Ganong's Review of Medical Physiology. 26 <sup>ed</sup> , 2019.	Required prescribed books (methodology) found(
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<p>Guyton and Hall: Textbook of Medical Physiology. 14<sup>ed</sup>, 2022.  Ganong's Review of Medical Physiology. 25<sup>ed</sup>, 2016.  Ganong's Review of Medical Physiology. 26<sup>ed</sup>, 2019.</p>	<p>Main references (sources)</p>
<p>Human Physiology ‘‘An integrated Approach’’. 15<sup>ed</sup>, 2014.  Essentials of Human Physiology for Pharmacy. Laurie Kelly,  McCorry. 2<sup>nd</sup>, (2008).</p>	<p>Recommended supporting books  and references (scientific journals,  reports,</p>
<p><a href="http://www.physiologyplace.com">www.physiologyplace.com</a></p>	<p>Electronic references, Internet sites</p>

## Course description

1 .Name of the course:	
Democracy and Human rights	
2 .Course code	
NTU 100	
3 .Semester/Year:	
First semester/first level	
4 .Date this description was prepared:	
1/10/2023	
5 .Available attendance forms:	
Presence	
6 .Number of academic hours (total) / number of units (total):	
30 theoretical hours / number of units 2	
7 .Objectives of the course	
Identifying the freedoms and rights of the individual and society and the role of each individual in it in terms of rights and duties, including In addition to the various state policies	Objectives of the academic subject
8 .Teaching and learning strategies:	





Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	-1 The right to vote 2 - The right to stand in elections 3 – Elections Periodical  The right to criticize the government	1	5
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Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	2 -Freedom to form associations 3 -Freedom to form and join unions To her:	1	6
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	MD exam		7
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Economic and social freedom Freedom of work 2- Freedom of ownership 3- Freedom of trade and industry	1	8
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	4 -Freedom of social security and health care/democracy	1	9
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Democracy in Iraq	1	10
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	National Assembly election transitional Iraq	1	11
Reports, Assignments, semi- semester oral and written	Blackboard PowerPoint Slides E- Learning	The objectives of the government	1	12

theory exams And a chapter				
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Forms of democracy/indirect democracy/semi-democracy Directly	1	13
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	People's participation in work Legislative/popular /proposal popular referendum	1	14
		Types of referendums/damages of referendums The general/popular solution	1	15

10 .Evaluation of the course	
Distribution of the score out of 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.	
- - Semester exam: 30 marks- Final exam: 70 marks	
11 .Learning and teaching resources	
Public freedoms and democracy / Al-Mustansiriya University lectures /University of Babylon	Main references (sources)

## Course description

1 .Name of the course:	
Crimes of Al- Baath Party in Iraq	
2 .Course code	
NTU 203	
3 .Semester/level:	
First semester/second level	
4 .Date this description was prepared:	
1/ 9/2023	
5 .Available attendance forms:	
Presence	
6 .Number of academic hours (total) / number of units (total):	
30 theoretical hours / number of units 2	
7 .Objectives of the course	
<p>1 -The primary goal of the crimes course is for students to become familiar with history. The tragedy caused by the Baath Party in Iraq.</p> <p>2 -Introducing students to the types of crimes and their countless numbers.</p> <p>2 -Educating the rising generations about the twisted ways of the tyrannical Baath administration system.</p> <p>3 -Study the motives behind carrying out Baath crimes against the people.</p> <p>4 -Study the political, administrative and military path of the Baath Party.</p>	Objectives of the academic subject
8 .Teaching and learning strategies:	



Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	The perpetrators of Baath crimes and its leaders The oppressor.	Emotional outputs And value - thinking skills through translation and analysis	2	5
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Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	The United Nations' view of crime The Baath.	Evaluate and extract Ideas - implanting moral values For correct operation For generations. Transferable general and qualification skills (other skills related to employability and personal development. -Performing practical experiments - Acquiring skill in using the computer	2	6
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Human rights and Baath crimes.	-Giving the student confidence by During the seminar discussion -Acquiring the skill in Writing reports.	2	7
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	The Baath regime's human rights violations		2	8
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Military crimes		2	9
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Political crimes		2	10
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Economic crimes		2	11

Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Civil crimes	2	12
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Social crimes	2	13
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Genocide crimes	2	14
Reports, Assignments, semi- semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E- Learning	Review the lectures carefully Comprehensive.	2	15

11 .Evaluation of the course				
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.				
-The semester exam is 30 marks. -Final exam: 70 marks				
12 .Learning and teaching resources				
			Required prescribed books (methodology) found(	

<p>Saddam Hussein Creation History Crime-  Abu Salam Abdullah- ,  Saddam resurrected a vision from within an authoritarian regime,  Youssef Sassoon -</p>	<p>Main references (sources)</p>
	<p>Recommended supporting books and references (scientific journals, reports,</p>
<p>United Nations Human Rights Organization website.</p>	<p>Electronic references, Internet sites</p>



## Course description

1 .Name of the course:	
Arabic Language	
2. Course code	
NTU 202	
3. Semester/Level:	
Second semester/second level	
4. Date this description was prepared:	
4 / 4 / 2024	
5. available attendance forms:	
Presence	
6. Number of academic hours (total) / Number of units (total):	
30 theoretical hours / number of units 2	
7. Objectives of the course	
<p>1 -The primary goal of the Arabic language is for students to be able to speak their own language. The department's students familiarize themselves with linguistic rules, recalling them, and using them.</p> <p>-2 Definition in speaking and writing.</p> <p>3 -Learn about Arabic culture and its huge heritage.</p> <p>-4 Study some famous literary texts and pieces in literature Arabic.</p> <p>5 -Study the rules of proper writing and dictation.</p>	<p>Objectives of the academic subject</p>
8. Teaching and learning strategies:	



Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Punctuation marks.	Mastering correct writing According to punctuation marks.	2	6
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Arabic calligraphy.	-Teaching students a skill Calligraphy and writing improvement Manual.	2	7
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Arabic literature.		2	8
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	The benefits of writing according to Al-Jahiz.		2	9
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	A short story about tigers a day Tenth.		2	10
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	A poem by the lover of the night NaziThe angels.		2	11
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Surat Al-Fajr, a study.		2	12
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	The marbuta tā.'		2	13
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	From the biography of the poet Nizar Qabbani		2	14
Mid-semester oral and written theory exams And a chapter	Blackboard PowerPoint Slides E-Learning	Communicate in language.		2	15

10. Evaluation of the decision					
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.					
-The semester exam is 30 marks. -Final exam: 70 marks					
11 .Learning and teaching resources					
General Arabic book. A group of authors.			Required prescribed books (methodology) found(		
Collection of Arabic Lessons, Mustafa Al-Ghalayini- Dictionary of Language and Literature, Magdy Wahba and others - Meanings of grammar, Fadel Al-Samarrai.-			Main references (sources)		
the rules of Arabic language and literature.			Recommended supporting books and references (scientific journals, reports)		
Nour Library to download free books.			Electronic references, Internet sites		

## Course description

1. Name of the course:	
Professional Ethics	
2. Course code	
NTU 204	
3 .Semester/level:	
Second semester/second level	
4. Date this description was prepared:	
2024 / 4 / 4	
5 .Available attendance forms:	
Presence	
6 .Number of academic hours (total) / number of units (total):	
30theoretical hours / number of units 2	
8 .Objectives of the course	
It is to provide students with a sound theoretical background on the principles of ethics in terms of identifying theories of ethics. Medical ethics and the laws of practicing the profession that regulate	Objectives of the academic subject
9. Teaching and learning strategies:	

-Brainstorming strategy - Teamwork strategy - Discussion strategy -Case study strategy - Inductive teaching strategy - Alpha maps strategy Himiya - Practical field training strategy - Self-learning strategy -E-learning strategy	Education strategies
-Study strategy -Conclusion strategy - Divergent practice strategy - Switching strategy Ideas - strategy for providing examples	Learning strategies

10 .Course structure:

Evaluation method	Learning method	Name of the unit or topic	Learning outcomes required	hours	The week
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Introduction to Pharmacy Ethics (Theoretical considerations).	Cognitive outputs 1-How to work Patients. 2-Learning using different scientific techniques 3 -Improving interaction With various ethical issues The technology facing the market Work.	1	1
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Law and Ethics	4-The ability to write and draft reports related to the ethical laws that Must be adhered to By the technician.  Acquiring skills - preparing students capable of dealing in accordance with moral laws	1	2
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Code of Ethics for Pharmacists.	With patients. - Acquiring the skill in writing scientific reports	1	3

			Emotional outputs and value - Thinking skills through translation		
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	The Common Ethical in Care Considerations in Pharmaceutical Practice (Beneficence, .	Analyze, evaluate and extract Ideas - implanting values	1	4
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Common Ethical Considerations in Pharmaceutical Care Practice Autonomy, Honesty	Ethical principles of correct dealing with patients Transferable general and qualification skills (other skills related to employability and To develop (Personal.) Performing - experiments	1	5
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Common Ethical Considerations in Pharmaceutical Care Practice Informed Consent, Confidentiality, Fidelity .....	The process - acquiring the skill In using the computer Giving the student - confidence Through discussion Seminars - Acquiring the skill in writing reports - Acquiring the skill	1	6
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Interprofessional Relations.	In leadership - acquiring the skill In business	1	7
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Making decisions. ethical		1	8
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Ethical issues related to clinical pharmacy research.		1	9

Reports, Assignments, exams	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Ethical problems in the pharmacist's clinical practice.	1	10
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Oral theory  And editorially  Half a semester  And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory  Blackboard PowerPoint slides E-learning Conduct experiments  Blackboard PowerPoint slides E-learning Conduct experiments laboratory			
Reports, Assignments, semi-semester oral and written theory exams  And a chapter  Reports, Assignments, semi-semester oral and written theory exams  And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Preventing misuse of medicines.	1	11
Reports, Assignments, semi-semester oral and written theory exams  And a chapter  Reports, Assignments,	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Case studies in pharmacy ethics.	1	12



semi-semester oral and written theory exams				
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Special problem areas like abortion	1	13
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Ethical issues related to contraception	1	14
Reports, Assignments, semi-semester oral and written theory exams And a chapter	Blackboard PowerPoint slides E-learning Conduct experiments laboratory	Ethical issues related to sterilization	1	15
Reports, Assignments, semi-				

semester oral and written theory exams					
11 .Evaluation of the course					
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.					
				Semester exam: 30 marks	-
				Final exam 70 marks	-

12 .Learning and teaching resources	
Ruth Rodgers, (ed.); fast track: Law and Ethics in Pharmacy Practice. Pharmaceutical Press 2010. Joy Wingfield and David Badcott . Pharmacy Ethics and Decision Making. Pharmaceutical Press2007	Required prescribed books (methodology) found(
Robert J. Cipolle, Linda M. Strand, Peter C. Morley. Pharmaceutical Care Practice: The Clinician's Guide, 2nd Edition. Robert m. Veatch and Amy Haddad. Case Studies in Pharmacy Ethics. second edition. Copyright © 2008 by Oxford University Press, Inc.	Main references (sources)
	Recommended supporting books and references (scientific journals, ,reports
	Electronic references, Internet sites

### Course description

<b>1.Name of the course:</b>
Anatomy of upper limbs and trunk
<b>2.Course code</b>
IPT 212
<b>3.Semester/Year:</b>
Second semester/second level
<b>4.Date this description was prepared:</b>
7 / 4 / 2024
<b>5.Available attendance forms:</b>
Presence
<b>6.Number of academic hours (total) / number of units (total):</b>
15theoretical hours / 30 practical hours. Number of units: 3

## 7.Objectives of the course

7.Objectives of the course	
<p>1-The ability to use modern tools specialized in anatomy</p> <p>2 - Proficiency in dealing with the structure of the arm through knowledge of the smallest anatomical details.</p> <p>3- The ability to develop appropriate solutions to the obstacles of installing the limb on the arm</p>	<p><b>Objectives of the academic subject</b></p>



Study subject: Anatomy of upper limbs and torso

Study stage: Second

Evaluation method	Learning method	Subject name	Required learning outcomes	hours	The week
Tests and reports	Theoretical + practical	Introduction in anatomy and term of anatomy	Knowledge and practical application	3	1
Tests and reports	Theoretical + practical	Bone of Upper extremity- Clavicle bones	Knowledge and practical application	3	2
Tests and reports	Theoretical + practical	Bone of Scapula	Knowledge and practical application	3	3
Tests and reports	Theoretical + practical	Bone of Humerus	Knowledge and practical application	3	4
Tests and reports	Theoretical + practical	Bone of Ulna	Knowledge and practical application	3	5
Tests and reports	Theoretical + practical	Bone of Radius	Knowledge and practical application	3	6
Tests and reports	Theoretical + practical	Bones of Hand	Knowledge and practical application	3	7
Tests and reports	Theoretical + practical	The muscles of anterior border of Shoulder reign (origin, insertion and action)	Knowledge and practical application	3	8
Tests and reports	Theoretical + practical	The muscles of posterior border of Shoulder reign (origin, insertion and action)	Knowledge and practical application	3	9
Tests and reports	Theoretical + practical	Revision	Knowledge and practical application	3	10
Tests and reports	Theoretical + practical	Application in anatomical terms	Knowledge and practical application	3	11
Tests and reports	Theoretical + practical	Use the skeleton to show the Clavicle bone	Knowledge and practical application	3	12
Tests and reports	Theoretical + practical	Use the skeleton to show the Scapula bone	Knowledge and practical application	3	13
Tests and reports	Theoretical + practical	Use the skeleton to show the Humerus bone	Knowledge and practical application	3	14
Tests and reports	Theoretical + practical	Use the skeleton to show the Ulna bone	Knowledge and practical application	3	15

## 10.Evaluation of the course

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today  
And daily, oral and monthly exams  
editorial, reports, etc.

- The semester exam is 40 marks.
- Final exam: 60 marks

## 11.Learning and teaching resources

Atlas of Human Anatomy by Frank H. Netter

The methodical book

Greys Anatomy for Students by Richard Drake and A. Wayne Vogl

External sources

## Course description

1- 1- Name of the course:

Biomaterials

2- Course code

IPT213	
3- Semester/Year:	
Second semester/second level	
4- The date this description was prepared:	
7/4/2024	
5- Available forms of attendance:	
Presence	
6- Number of academic hours (total) / Number of units (total):	
30 theoretical hours / number of units 2	
7- Objectives of the course	
<p>1 - Lightness and flexibility. Biomaterials allow the manufacture of lightweight and flexible limbs and supports, which makes it easy for a person to wear them and use them efficiently. Some biomaterials are characterized by high strength and hardness, which makes them ideal for use in prosthetic limbs that need to withstand pressure and severe use.</p> <p>- 2 Suitability and adaptation, as these materials allow for the formation and customization of limbs and supports precisely according to the needs of the individual, which makes it easier for the person to use them comfortably and effectively.</p> <p>3 Corrosion resistance: Some biomaterials provide high resistance to corrosion, which extends the life of prosthetic limbs and medical supports</p>	Objectives of the academic subject
8. Teaching and learning strategies:	
<p>-Brainstorming strategy - Teamwork strategy - Discussion strategy          -Case study strategy - Inductive teaching strategy - Alpha maps strategy          The importance of the practical field training strategy-          -Self-learning strategy          E-learning strategy -</p>	<p><b>Education strategies</b></p> <p><b>Learning strategies</b></p>



<ul style="list-style-type: none"><li>-Study strategy</li><li>-Conclusion strategy - Divergent practice strategy - Switching strategy</li></ul> <p>Where are the ideas?</p> <ul style="list-style-type: none"><li>-Strategy for providing examples</li></ul>	
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<b>9.Course structure:</b>
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The second stage		Name of material: Biomaterials	Learning Outcomes	Course structure:	
Tests and reports	theoretical	Use of Biomaterials	Knowledge and practical application	2	1
Tests and reports	theoretical	Biomaterials in Organs	Knowledge and practical application	2	2
Tests and reports	theoretical	Materials for use in the Body	Knowledge and practical application	2	3
Tests and reports	theoretical	Selection of Biomedical Materials	Knowledge and practical application	2	4
Tests and reports	theoretical	Materials Evaluation	Knowledge and practical application	2	5
Tests and reports	theoretical	Polymers	Knowledge and practical application	2	6
Tests and reports	theoretical	Metals	Knowledge and practical application	2	7
Tests and reports	theoretical	Ceramics	Knowledge and practical application	2	8
Tests and reports	theoretical	Biological Soft Tissue Materials	Knowledge and practical application	2	9
Tests and reports	theoretical	Mechanical properties of Biomaterial	Knowledge and practical application	2	10
Tests and reports	theoretical	Thermal Properties	Knowledge and practical application	2	11
Tests and reports	theoretical	Bio-Ceramics	Knowledge and practical application	2	12
Tests and reports	theoretical	Biomedical Application in Medicine	Knowledge and practical application	2	13
Tests and reports	theoretical	Modern Biotechnology Techniques	Knowledge and practical application	2	14
Tests and reports	theoretical	Advancements in Biotechnology	Knowledge and practical application	2	15

10.Evaluation of the course	
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.	
- The semester exam is 30 marks. -Final exam 70 marks	
11.Learning and teaching resources	
Introduction to Biomaterials By Joon .B Park and R.S. Lakes	The methodical book
Biomaterials : A Basic Introduction by Qizhi Chen and Stanley S. Leung	External sources

### Course description

1- Name of the course:
Physiotherapy methods
2- Course code

IPT215	
3- Semester/Year:	
First semester/second level	
4- The date this description was prepared:	
7/4/2024	
5- Available forms of attendance:	
Presence	
6- Number of academic hours (total) / Number of units (total):	
30 theoretical hours / number of units 2	
7- Objectives of the course	
<p>1-Physical therapy aims to improve the individual's ability to use prosthetic limbs efficiently and effectively in movement and daily performance</p> <p>-2 Strengthening the muscles and improving flexibility. Physical therapy includes exercises to strengthen the muscles surrounding the prosthetic limbs and improve their flexibility, which facilitates the movement process and reduces the risk of injury.</p> <p>3 - Improving balance and motor coordination, as physical therapy includes exercises to improve the individual's balance and motor coordination using prosthetic limbs</p>	Objectives of the academic subject
8. Teaching and learning strategies:	
<p>-Brainstorming strategy - Teamwork strategy - Discussion strategy</p> <p>-Case study strategy - Inductive teaching strategy - Alpha maps strategy</p> <p>The importance of the practical field training strategy-</p> <p>-Self-learning strategy</p> <p>-E-learning strategy</p>	<p>Education strategies</p> <p>Learning strategies</p>

<ul style="list-style-type: none"><li>-Study strategy</li><li>-Conclusion strategy - Divergent practice strategy - Switching strategy</li></ul> <p>Where are the ideas?</p> <ul style="list-style-type: none"><li>-Strategy for providing examples</li></ul>	
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9.Course structure:
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The second stage		Title of the article: Physical therapy methods	Learning Outcomes	Course structure	
Tests and reports	theoretical	Physical Therapy Techniques	Knowledge and practical application	2	1
Tests and reports	theoretical	Muscles and Tendons	Knowledge and practical application	2	2
Tests and reports	theoretical	Strength training exercises	Knowledge and practical application	2	3
Tests and reports	theoretical	Stretching exercises	Knowledge and practical application	2	4
Tests and reports	theoretical	Balance Techniques	Knowledge and practical application	2	5
Tests and reports	theoretical	Pain Management	Knowledge and practical application	2	6
Tests and reports	theoretical	Massage Techniques	Knowledge and practical application	2	7
Tests and reports	theoretical	Coordination exercises	Knowledge and practical application	2	8
Tests and reports	theoretical	Psychological Adaptation Techniques	Knowledge and practical application	2	9
Tests and reports	theoretical	Progress Monitoring	Knowledge and practical application	2	10
Tests and reports	theoretical	Prosthetic Use	Knowledge and practical application	2	11
Tests and reports	theoretical	Injury Prevention	Knowledge and practical application	2	12
Tests and reports	theoretical	Performance Enhancement	Knowledge and practical application	2	13
Tests and reports	theoretical	Irritation Reduction Techniques	Knowledge and practical application	2	14
Tests and reports	theoretical	Self – care Instructions	Knowledge and practical application	2	15

.10 Course evaluation	
Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.	
- The semester exam is 30 marks. -Final exam 70 marks	
.12 Learning and teaching resources	
Prosthetic Rehabilitation by Kevin Carroll and Henry Lew	The methodical book
Physical Rehabilitation : Evidence – Based Examination , Evaluation , and intervention by Michelle H. Cameron , Linda Monroe	External sources

### Course description

1 .Name of the course:
Manufacture prosthesis below knee joint
2. Course code
IPT 110
3. Semester/level:
First semester/first level
4. Date this description was prepared:
7/4/2024
5. Available attendance forms:
Presence
6. Number of academic hours (total) / number of units (total):





Tests and reports	Theoretical + practical	Prosthetic Foot Design	Knowledge and practical application	5	10
Tests and reports	Theoretical + practical	Biomechanics of T.K prosthesis	Knowledge and practical application	5	11
Tests and reports	Theoretical + practical	Gait Training	Knowledge and practical application	5	12
Tests and reports	Theoretical + practical	Alignment and force distribution of T.K prosthesis	Knowledge and practical application	5	13
Tests and reports	Theoretical + practical	Biomechanics of A.k Prosthesis	Knowledge and practical application	5	14
Tests and reports	Theoretical + practical	Check out of A.K and T.K prosthesis	Knowledge and practical application	5	15

#### 11 .Evaluation of the course

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams  
editorial and reporting

- The semester exam is 40 marks.
- Final exam: 60 marks

#### 12 .Learning and teaching resources

1. “Prosthetics and Orthotics: Lower Limb and Spine” By William H. Frizzell , Michael J. Michael:

Required prescribed books (methodology) found(

Prosthetics and Orthotics: Lower Limb and Spine” by Bella J. May , Margery A. Lockard

Main references (sources)

Recommended supporting books and references (scientific journals, reports,

USP

Electronic references, Internet sites



Study subject: Fabrication of limbs above the knee.

Study stage: First

Evaluation method	Learning method	Subject name	Required learning outcomes	hours	The week
Tests and reports	Theoretical + practical	Prosthetic Socket: The component of the above-knee prosthesis that interfaces with the residual limb	Knowledge and practical application	5	1
Tests and reports	Theoretical + practical	Suspension System: The mechanism used to secure the prosthetic limb to the residual limb, ensuring proper fit and function.	Knowledge and practical application	5	2
Tests and reports	Theoretical + practical	Prosthetic Knee Joint: The artificial joint component of the above-knee prosthesis that mimics the function of the knee.	Knowledge and practical application	5	3
Tests and reports	Theoretical + practical	Prosthetic Foot: The artificial foot component of the above-knee prosthesis, which provides support and stability during walking	Knowledge and practical application	5	4
Tests and reports	Theoretical + practical	Alignment: The process of ensuring that the prosthetic components are correctly aligned to optimize function and comfort	Knowledge and practical application	5	5
Tests and reports	Theoretical + practical	Component Selection: Choosing the appropriate materials and components for constructing above-knee prosthetics.	Knowledge and practical application	5	6
Tests and reports	Theoretical + practical	Fabrication Techniques: Methods used to manufacture above-knee prosthetic components, such as casting and machining.	Knowledge and practical application	5	7
Tests and reports	Theoretical + practical	design the system prosthesis	Knowledge and practical application	5	8
Tests and reports	Theoretical + practical	Exam	Knowledge and practical application	5	9
Tests and reports	Theoretical + practical	Gait Training: Teaching patients how to walk with their above-knee prosthetics effectively and safely	Knowledge and practical application	5	10
Tests and reports	Theoretical + practical	Above-Knee Prosthetics: Artificial limbs designed to replace limbs lost above the knee due to various conditions or injuries	Knowledge and practical application	5	11
Tests and reports	Theoretical + practical	Amputation: The surgical removal of a limb, often necessary due to trauma, vascular disease, or cancer.	Knowledge and practical application	5	12
Tests and reports	Theoretical + practical	Residual Limb: The remaining portion of a limb after amputation, which serves as the interface with the prosthetic device.	Knowledge and practical application	5	13

Tests and reports	Theoretical + practical	Prosthetic Socket: The component of the above-knee prosthesis that interfaces with the residual limb, providing support and attachment.	Knowledge and practical application	5	14
Tests and reports	Theoretical + practical	Check out of A.K and T.K prosthesis	Knowledge and practical application	5	15

## 10. Evaluation of the course

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial, reports, etc.

- The semester exam is 40 marks.
- Final exam: 60 marks

## 11. Learning and teaching resources

Prosthetics and Orthotics: Lower Limb and Spine” by William H. Frizzell , Michael J. Michael:	Required prescribed books (methodology) found(
Prosthetics and Orthotics: Lower Limb and Spine” by Bella J. May , Margery A. Lockard	Main references (sources)
Prosthetic Restoration and Rehabilitation of the Upper and Lower Extremity” by Mary Bartha:	Recommended supporting books and references (scientific ,journals, reports
world wide web	Electronic references, Internet sites



## 9. Course structure:

### 1-Course structure

Study subject: Manufacture of orthotics for the upper extremities			Study stage: Second		
Evaluation method	Learning method	Subject name	Required learning outcomes	hours	The week
Tests and reports	Theoretical + practical	Orthotic Device: A device designed to support, align, prevent, or correct deformities or to improve the function of movable parts of the body.	Knowledge and practical application	8	1
Tests and reports	Theoretical + practical	Socket Design: The process of designing the interface between the residual limb and the orthotic socket.	Knowledge and practical application	8	2
Tests and reports	Theoretical + practical	Component Selection: Choosing the appropriate materials and components for constructing upper-limb orthotic devices	Knowledge and practical application	8	3
Tests and reports	Theoretical + practical	Alignment: Ensuring the correct alignment of the orthotic components to optimize function and comfort	Knowledge and practical application	8	4
Tests and reports	Theoretical + practical	Suspension Systems: Mechanisms used to secure the orthotic device to the body, ensuring proper fit and function.	Knowledge and practical application	8	5
Tests and reports	Theoretical + practical	Prosthetic Joint: The artificial joint component of an orthotic device, designed to mimic the function of the natural joint.	Knowledge and practical application	8	6
Tests and reports	Theoretical + practical	Fabrication Techniques: Methods used to manufacture upper-limb orthotic components, such as casting and machining.	Knowledge and practical application	8	7
Tests and reports	Theoretical + practical	Gait Training: Teaching patients how to walk with their orthotic devices effectively and safely.	Knowledge and practical application	8	8
Tests and reports	Theoretical + practical	Exam	Knowledge and practical application	8	9
Tests and reports	Theoretical + practical	Socket Design	Knowledge and practical application	8	10
Tests and reports	Theoretical + practical	Upper limb Orthosis	Knowledge and practical application	8	11
Tests and reports	Theoretical + practical	Prosthetic Arm	Knowledge and practical application	8	12
Tests and reports	Theoretical + practical	Orthotic Hand	Knowledge and practical application	8	13

Tests and reports	Theoretical + practical	Biomechanics of A.k Prosthesis	Knowledge and practical application	8	14
Tests and reports	Theoretical + practical	Check out of A.K and T.K prosthesis	Knowledge and practical application	8	15

## 10.Evaluation of the course

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams editorial and reporting

- The semester exam is 40 marks.
- Final exam: 60 marks

## 11 .Learning and teaching resources

1. “Prosthetics and Orthotics: Lower Limb and Spine” By William H. Frizzell , Michael J. Michael:	Required prescribed books (methodology) found(
Prosthetics and Orthotics: Lower Limb and Spine” by Bella J. May , Margery A. Lockard	Main references (sources)
	Recommended supporting books and references (scientific journals, reports,
world wide web	Electronic references, Internet sites

## Course description

1. Name of the course:	
Proposal	
2. Course code	
IPT 214	
3. Semester/level:	
Second semester/second level	
4. Date this description was prepared:	
7/4/2024	
5. Available attendance forms:	
Presence	
6. Number of academic hours (total) / number of units (total):	
30 practical hours / number of units 2	
8. Objectives of the course	
Providing an opportunity for students to apply the knowledge and skills they have acquired during their studies to a practical project in the field of limb and support industry and developing the practical skills necessary to complete the graduation project such as planning, organization and communication.	Objectives of the academic subject



-Brainstorming strategy - Teamwork strategy - Discussion strategy -Case study strategy - Inductive teaching strategy - Alpha maps strategy Himiya - Practical field training strategy - Self-learning strategy -E-learning strategy           -Study strategy -Conclusion strategy - Divergent practice strategy - Switching strategy Ideas - strategy for providing examples	Teaching strategies           Learning strategies
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## 9. Course structure

Study subject: Graduation project			Study stage: Second		
Evaluation method	Learning method	Subject name	Required learning outcomes	hours	The week
Tests and reports	practical	Research Proposal	Knowledge and practical application	2	1
Tests and reports	practical	Literature Review	Knowledge and practical application	2	2
Tests and reports	practical	Methodology	Knowledge and practical application	2	3
Tests and reports	practical	Data collection	Knowledge and practical application	2	4
Tests and reports	practical	Data Analysis	Knowledge and practical application	2	5
Tests and reports	practical	Results	Knowledge and practical application	2	6
Tests and reports	practical	Discussion	Knowledge and practical application	2	7
Tests and reports	practical	Conclusion	Knowledge and practical application	2	8
Tests and reports	practical	Recommendation	Knowledge and practical application	2	9
Tests and reports	practical	Google scholar	Knowledge and practical application	2	10
Tests and reports	practical	Mendeley	Knowledge and practical application	2	11
Tests and reports	practical	References	Knowledge and practical application	2	12
Tests and reports	practical	Researches Discussion	Knowledge and practical application	2	13

## 10. Evaluation of the decision

Distributing the grade from 100 according to the tasks assigned to the student by the relevant supervisor, and giving the grade by a specialized committee to discuss the students in the department.

### Course description

1. Name of the course:	
Sport	
2. Course code	
NTU103	
3. Semester/level:	
Second semester/first level	
4. Date this description was prepared:	
7/4/2024	
5. Available attendance forms:	
Presence	
6. Number of academic hours (total) / number of units (total):	
15 theoretical hours + 15 practical hours / number of units 2	
7. Objectives of the course	
Promoting health and physical fitness by providing - opportunities for students to practice physical activity, promoting physical fitness and general health, developing sports skills such as physical strength, endurance, balance and coordination, enhancing sportsmanship and interaction between students .through sports activities and cooperation in sports investigation	Objectives of the academic subject
8 .Teaching and learning strategies:	

-Brainstorming strategy - Teamwork strategy - Discussion strategy  
-Case study strategy - Inductive teaching strategy - Alpha maps strategy  
Himiya - Practical field training strategy - Self-learning strategy  
-E-learning strategy

-Study strategy  
-Conclusion strategy - Divergent practice strategy - Switching strategy  
Ideas - strategy for providing examples

Teaching strategies

Learning strategies

## 9 .Course structure:

<b>Academic subject: Sports. Academic</b>						<b>stage: First</b>	
<b>Evaluation method</b>	<b>Learning method</b>	<b>Subject name</b>	<b>Required learning outcomes</b>	<b>hours</b>	<b>The week</b>		
Tests and reports	Theoretical + practical	History of Sport	Knowledge and practical application	2	1		
Tests and reports	Theoretical + practical	Physical Education	Knowledge and practical application	2	2		
Tests and reports	Theoretical + practical	Sport Science	Knowledge and practical application	2	3		
Tests and reports	Theoretical + practical	Exercise Physiology	Knowledge and practical application	2	4		
Tests and reports	Theoretical + practical	Sports Psychology	Knowledge and practical application	2	5		
Tests and reports	Theoretical + practical	Biomechanics	Knowledge and practical application	2	6		
Tests and reports	Theoretical + practical	Coaching	Knowledge and practical application	2	7		
Tests and reports	Theoretical + practical	Physical fitness	Knowledge and practical application	2	8		
Tests and reports	Theoretical + practical	Football	Knowledge and practical application	2	9		
Tests and reports	Theoretical + practical	Basketball	Knowledge and practical application	2	10		
Tests and reports	Theoretical + practical	Exam	Knowledge and practical application	2	11		
Tests and reports	Theoretical + practical	Sport medicine	Knowledge and practical application	2	12		
Tests and reports	Theoretical + practical	Hand ball	Knowledge and practical application	2	13		
Tests and reports	Theoretical + practical	Volleyball	Knowledge and practical application	2	14		
Tests and reports	Theoretical + practical	Swimming	Knowledge and practical application	2	15		

## 10 .Evaluation of the course

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams  
editorial and reporting

- The semester exam is 40 marks.
- Final exam: 60 marks

## 11 .Learning and teaching resources

- 1- Essentials of Strength Training and Conditioning” by Thomas R. Baechle and Roger W. Earle:
- 2- “Sport Psychology: Concepts and Applications” by Richard H. Cox

Required prescribed books  
(methodology)  
found(

Exercise Physiology: Theory and Application to Fitness and Performance” by Scott K. Powers and Edward T. Howley

Main references (sources)

Recommended supporting  
books and references  
(scientific journals,  
,reports

## Course description

1 .Name of the course:	
Occupational safety	
2. Course code	
TIDO 108	
3. Semester/level:	
Second semester/first level	
4. Date this description was prepared:	
7/4/2024	
5. Available attendance forms:	
Presence	
6. Number of academic hours (total) / number of units (total):	
30 theoretical hours / number of units 2	
7. Objectives of the course	
Promoting safety awareness in workshops and laboratories and the necessity of adhering to security and preventive measures, providing students with the necessary knowledge about potential risks in workshops and laboratories and how to deal with them, developing practical skills such as using personal protective equipment and dealing with hazardous materials, encouraging students to take responsibility and make the right decisions regarding safety in Workshops and laboratories and enhancing communication and cooperation with colleagues and supervisors to ensure a safe and healthy work environment in laboratories .and workshops	Objectives of the academic subject
8 .Teaching and learning strategies:	

-Brainstorming strategy - Teamwork strategy - Discussion strategy  
-Case study strategy - Inductive teaching strategy - Alpha maps strategy  
Himiya - Practical field training strategy - Self-learning strategy  
-E-learning strategy

-Study strategy  
-Conclusion strategy - Divergent practice strategy - Switching strategy  
Ideas - strategy for providing examples

Teaching strategies

Learning strategies





## 9. Course structure:

Study subject: Laboratory and workshop safety.			Study stage: First		
Evaluation method	Learning method	Subject name	Required learning outcomes	hours	The week
Tests and reports	theoretical	Safety procedures	Knowledge and practical application	2	1
Tests and reports	theoretical	Hazardous materials	Knowledge and practical application	2	2
Tests and reports	theoretical	Personal protective Equipment	Knowledge and practical application	2	3
Tests and reports	theoretical	Emergency procedures	Knowledge and practical application	2	4
Tests and reports	theoretical	Risk Assessment	Knowledge and practical application	2	5
Tests and reports	theoretical	Chemical Handling	Knowledge and practical application	2	6
Tests and reports	theoretical	Laboratory Safety	Knowledge and practical application	2	7
Tests and reports	theoretical	Fire Safety	Knowledge and practical application	2	8
Tests and reports	theoretical	Workshop safety procedures	Knowledge and practical application	2	9
Tests and reports	theoretical	Exam	Knowledge and practical application	2	10
Tests and reports	theoretical	Emergency Exits	Knowledge and practical application	2	11
Tests and reports	theoretical	Electrical safety	Knowledge and practical application	2	12
Tests and reports	theoretical	Chemical storage	Knowledge and practical application	2	13
Tests and reports	theoretical	Training and Drills	Knowledge and practical application	2	14
Tests and reports	theoretical	Fire Suppression Systems	Knowledge and practical application	2	15

## 10 .Evaluation of the course

Distribution of the score from 100 according to the tasks assigned to the student, such as preparation today And daily, oral and monthly exams  
editorial and reporting

- The semester exam is 30 marks.
- Final exam 70 marks

## 11 .Learning and teaching resources

Laboratory Safety for Chemistry Students” by Robert H. Hill Jr. and David C. Finster Laboratory Safety: Theory and Practice” by Neal Langerman	Required prescribed books (methodology) found(
Guidelines for Laboratory Design: Health, Safety, and Environmental Considerations” by Louis J. Di Berardinis Chemical Process Safety: Fundamentals with Applications” by Daniel A. Crowl and Joseph F. Louvar:	Main references (sources)
	Recommended supporting books and references (scientific journals, reports,