

Biomechanics of prosthesis Course Description Form

1. Course Name					
Biomechanics of prosthesis					
2. Course Code					
IPT 112					
3. Semester / Level					
First /first					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
45 / 3					
7. Course Objectives					
Course Objectives			The ability to master angles and deviations w manufacturing limbs, the ability to put problems i perspective and find appropriate solutions, efficiency distributing the stress on the amputated limb.		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	3	Terminology of biomechanics	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
2	3	Study of force and its component.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
3	3	Static and dynamic equilibrium.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
4	3	Gait analysis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams

5	3	Relation ship between gait and force for B.K prosthesis.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
6	3	Relation ship between gait and force for B.K prosthesis.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
7	3	Force distribution on symes prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
8	3	design the symes prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
9	3	Exam	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
10	3	Alignment of symes prosthesis , the type of windows in the socket	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
11	3	Biomechanics of T.K prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
12	3	Alignment and force distribution of T.K prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
13	3	Alignment and force distribution of T.K prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
14	3	Biomechanics of A.k Prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
15	3	Check out of A.K and T.K prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams

10. Course Evaluation

Daily, monthly and final exams as well as weekly reports

11. Learning and Teaching Resources

Textbooks

Main references

Scientific resources within the Internet

English language Course Description Form

1. Course Name					
English language					
2. Course Code					
NTU 101					
3. Semester / Level					
First /first					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30 / 2					
7. Course Objectives					
Course Objectives		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.			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	2	Definition of basic English terms	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
2	2	English Language How many units are three in English	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
3	2	The eight parts of speech	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
4	2	Parts of speech2	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
5	2	Conversation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
6	2	Department of prosthetics and ambulance	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

7	2	Verb to be 1	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
8	2	Verb to be 2	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
9	2	Prepositions1	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
10	2	Preposition 2	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
11	2	Punctuation marks	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
12	2	Simple past tense	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
13	2	Simple past continuous tense	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
14	2	Past perfect tense	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
15	2	Sentence types	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

10. Course Evaluation

Daily, monthly and final exams as well as weekly reports

11. Learning and Teaching Resources

Textbooks

Main references

Scientific resources within the Internet

Parasites Course Description Form

1. Course Name					
Parasites					
2. Course Code					
IPT116					
3. Semester / Level					
Second /First					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (College) / Number of Units (College)					
45 / 3					
7. Course administrator name					
8. Course Objectives					
Course Objectives			Introducing the student to primary parasites (protozoa), methods of diagnosis and the diseases they cause, and familiarity with their epidemiological information, which helps to prevent and eradicate the prevailing parasitic diseases.		
9. Teaching and Learning Strategies					
<ul style="list-style-type: none"> • Adequate explanation of the course • Daily Tests • Student groups • Field visits 					
10. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Introduction to parasites	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	3	Classification of parasites	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Third	3	Host and its types	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	3	Classification of protozoans and their specifications	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Fifth	3	Roots	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Antamoeba: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Flagella	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Giardiasis - Trichomonas: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Leishmaniasis: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Trypanosoma: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Ciliary	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Plantidium: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Spores	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Plasmodium: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Fifteenth	3	Toxoplasma: form, pathogenesis and diagnostic methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
11. Course Evaluation					
Daily, monthly and final exams as well as weekly reports					
12. Learning and Teaching Resources					
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Main references					
Scientific research					
Scientific resources within the Internet					

Microbiology Course Description Form

1. Course Name					
Microbiology					
2. Course Code					
IPT115					
3. Semester/Level					
Second / First					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
45 / 3					
7. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> It aims to provide a broad introduction to bacteriology, classification of bacteria, bacterial cell structure and mode of operation, bacterial growth and methods of estimation and factors affecting it, metabolism, genetics and the biological and economic importance of bacteria. 		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups Field visits 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Introduction to Microbiology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	3	The structure and shape of bacteria, the classification of bacteria, the chemical composition and secondary structure of the bacterial cell.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Third	3	Physiology of bacteria, growth requirements, types of nutrition and factors affecting growth.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	3	Sterilization and disinfection . Classification of sterilization, physical and chemical methods.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Tools, equipment and devices used in the diagnosis of bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Infections, sources of infection, virulence, toxins and enzymes related to bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Cultivation media and their types	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	Chemical tests for the detection of bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	Anaerobic bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Clostridium	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Aerobic bacteria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	staphylococcus, general characteristics, toxin production, enzyme, immunomodulator, Allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	streptococci, general characteristics, toxin production, enzyme, immunomodulator, Allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Bacilli (Anthrax), general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Fifteenth	3	Bordetella and Haemophilus, general characteristics, toxin production, enzyme, immunomodulatory, allergy test.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
10. Course Evaluation					
Daily, monthly and final exams as well as weekly reports					
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Main references					
Scientific research					
Scientific resources within the Internet					

Manufacture prosthesis below knee joint Course Description Form

1. Course Name					
Manufacture prosthesis below knee joint					
2. Course Code					
IPT 110					
3. Semester / Level					
First /first					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 / 5					
7. Course Objectives					
Course Objectives			The ability to understand the basic foundations and principles of designing and manufacturing lower limbs, the ability to put problems into perspective and find appropriate solutions, directing students to understand the physiological and technical factors affecting the design and manufacture of lower limbs to ensure compatibility with the human body.		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	5	Prosthetic Manufacturing	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
2	5	Socket Design	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
3	5	Static and dynamic equilibrium.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
4	5	Component Selection	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
5	5	Alignment	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
6	5	Socket Fabrication.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams

7	5	Suspension Systems	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
8	5	design the symes prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
9	5	Exam	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
10	5	Prosthetic Foot Design	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
11	5	Biomechanics of T.K prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
12	5	Gait Training	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
13	5	Alignment and force distribution of T.K prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
14	5	Biomechanics of A.k Prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
15	5	Check out of A.K and T.K prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams

10. Course Evaluation

Daily, monthly and final exams as well as weekly reports

11. Learning and Teaching Resources

Textbooks

Main references

Scientific resources within the Internet

Anatomy Course Description Form

1. Course Name					
Anatomy					
2. Course Code					
TIDO 107					
3. Semester/Level					
Second /First					
4. Description preparation date					
2025/2/2					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
60 / 4					
7. Course administrator name					
8. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> The student's knowledge of the anatomy of the human body and organs, as well as knowledge of the relationship between them. 		
9. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups Field visits 					
10. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	4	Anatomical trends and body surfaces	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	4	Anatomy of the heart, its location according to the chest wall and the number of shades	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Third	4	Anatomy of the lungs, its location according to the chest wall and the number of ribs	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	4	Abdominal anatomy and dividing the abdomen vertically and horizontally	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	4	Anatomy of the stomach - its sections and its relationship to other organs	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Sixth	4	Anatomy of the liver and spleen and their location according to bodily surfaces	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	4	Anatomy of the small intestine and its relationship to other organs in the abdominal cavity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	4	Anatomy of the cecum and its location within the abdominal cavity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	4	Bile cyst anatomy and location	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	4	Anatomy of the uterus and its location within the pelvic cavity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	4	Skeleton, Skull and Spine	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	4	Shoulder bones, plank and collarbone	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	4	Forearm bone and parts	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	4	Hand and thigh bones	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	4	Pelvic bones and lower limbs	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

11. Course Evaluation

Daily, monthly and final exams as well as weekly reports

12. Learning and Teaching Resources

Textbooks

Main references

Scientific research

Scientific resources within the Internet

Anatomy of lower limb Course Description Form

1. Course Name					
Anatomy of lower limb					
2. Course Code					
IPT 114					
3. Semester / Level					
First semester/first level					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
First semester/first level					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30 practical hours + 15 theoretical hours / number of units 3					
7. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> The ability to master angles and deviations when manufacturing limbs, the ability to put problems into perspective and find appropriate solutions, the ability to use modern means to reach appropriate therapeutic methods, and efficiency in distributing the stress on the amputated limb. 			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Introduction in anatomy and term of anatomy	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	3	Classify of bone and kind of bone	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Third	3	Bone of Lower extremity-pelvic bone	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	3	Bone of Femur	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Fifth	3	Bone of Tibia , Fibula	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	3	Bones of Foot	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Introduction in Muscular system	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	The kind of muscles	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	The muscles of anterior border of pelvic reign (origin, insertion and action)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	The muscles of posterior border of pelvic reign (origin, insertion and action)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	The muscles of Iliac border of pelvic reign (origin, insertion and action)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	The muscles of the anterior border of Thigh reign (origin, insertion and action)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	The muscles of posterior border of Thigh reign (origin, insertion and action)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Fourteenth	3	The muscles of medial & lateral border of Thigh reign (origin, insertion and action)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Exam	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory and laboratory	Exams

10. Course Evaluation

Daily, monthly and final exams as well as weekly reports

11. Learning and Teaching Resources

Textbooks

Main references

Scientific resources within the Internet

Locomotors Diseases Course Description Form

1. Course Name					
Locomotors Diseases					
2. Course Code					
IPT 113					
3. Semester / Level					
second semester/first level					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/2					
7. Course Objectives					
Course Objectives		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..			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Introduction in orthopedic	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Second	2	Glossary terminology ;[orthoepadic med. Terms]	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Third	2	Clinical methods & approached. History , investigations & examination.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourth	2	Clinical methods & approached. History , Investigations & examination.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifth	2	Deformities :general causes / A cqwired &congenital	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

Sixth	2	Cont. :common deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	2	Arthritis : acute & chronic : definition , clinical exam	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	2	Arthritis :clinical features ; diagnoses & management	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	2	Arthritis : RA, OA, infective & gout	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	2	Bone tumors : Benign& malignant	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	2	Introduction in neurological disease , locomotors disorders	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	2	Cerebral palsy	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	2	Fractures : complication	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourteenth	2	Uses of orthosis in soft tissue dis & injuries	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifteenth	2	Revision	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

10. Course Evaluation

Daily, monthly and final exams as well as weekly reports

11. Learning and Teaching Resources

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Main references

Scientific resources within the Internet

Manufacture prosthesis above knee joint Course Description Form

1. Course Name					
Manufacture prosthesis above knee joint					
2. Course Code					
IPT 111					
3. Semester / Level					
2/2/2025					
4. Description preparation date					
Second semester/first level					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
75 / 5					
7. Course Objectives					
Course Objectives			The ability to understand the basic foundations and principles of designing and manufacturing limbs above the knee, the ability to put problems into perspective and find appropriate solutions, directing students to understand the physiological and technical factors affecting the design and manufacture of upper limbs to ensure compatibility with the human body		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	5	Prosthetic Socket: The component of the above-knee prosthesis that interfaces with the residual limb	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
2	5	Suspension System: The mechanism used to secure the prosthetic limb to the residual limb, ensuring proper fit and function	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
3	5	Prosthetic Knee Joint: The artificial joint component of the above-knee prosthesis that mimics the function of the knee.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
4	5	Prosthetic Foot: The artificial foot component of the above-knee prosthesis, which provides support and stability during walking	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
5	5	Alignment: The process of ensuring that the prosthetic components are correctly aligned to optimize function and comfort	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams

6	5	Component Selection: Choosing the appropriate materials and components for constructing above-knee prosthetics	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
7	5	Fabrication Techniques: Methods used to manufacture above-knee prosthetic components, such as casting and machining.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
8	5	design the system prosthesis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
9	5	Exam	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
10	5	Gait Training: Teaching patients how to walk with their above-knee prosthetics effectively and safely	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
11	5	Above-Knee Prosthetics: Artificial limbs designed to replace limbs lost above the knee due to various conditions or injuries	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
12	5	Amputation: The surgical removal of a limb, often necessary due to trauma, vascular disease, or cancer.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
13	5	Residual Limb: The remaining portion of a limb after amputation, which serves as the interface with the prosthetic device.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
14	5	Prosthetic Socket: The component of the above-knee prosthesis that interfaces with the residual limb, providing support and attachment.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
15	5	Check out of A.K and T.K prosthesis.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Computer Course Description Form

1. Course Name					
Computer					
2. Course Code					
NTU102					
3. Semester / Level					
First / First					
4. Description preparation date					
2025/2/2					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 / 30					
7. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> The student is familiar with the different computer applications and can distinguish between the types of software that can be dealt with 		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	The concept of networks and their types - the concept of the Internet and its operation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	2	Description of the home screen and its components -How to connect to the World Wide Web	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Third	2	How to take advantage of popular search engines such as Google	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	2	Learn how to search for information and how to access it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	2	Excel program to identify the concept of the program - benefits - specifications, features and methods of operation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Sixth	2	Learn about the home screen and its components and contain various menus and active tools	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	2	The concept of the cell - the types of basic data and how to enter it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	2	How to save a work page - Close the program and close the file	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	2	Using some functions provided by the program such as count, SQRT, Ave, sum, Min, Max and other relevant useful statistical functions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	2	Learn about the editing process provided by the software and	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	2	How to copy data or transfer data and learn about the concept of copying calculations as well as the concept of relative cells and absolute cells	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	2	Control cell width – change its style and theme through the use of formatting tools	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	2	Word program to identify the concept of the program - its benefits - specifications, features and methods of operation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	2	Various Word applications	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	2	SPSS Statistical Program - Program Concept and Operation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

10. Course Evaluation

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Scientific resources within the Internet

Human Rights and Democracy Course Description Form

1. Course Name					
Human Rights and Democracy					
2. Course Code					
NTU 100					
3. Semester / Level					
First /First					
4. Description preparation date					
2025/2/2					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/2					
7. Course Objectives					
Course Objectives			Identify the freedoms due to members of society and the role of each individual in terms of rights and duties, as well as identify the various state policies		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	The concept of freedom and democracy	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Second	2	Rights and duties of the citizen	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Third	2	The concept of the state and government	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Fourth	2	Intellectual and cultural freedom	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Fifth	2	Economic and social freedom	Explanation of the lecture with the presence of means of illustration	Classroom	Exams

Sixth	2	Right to vote and participate in elections	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Seventh	2	Freedom to form trade unions and associations	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Eighth	2	Freedom of social security and health care	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Ninth	2	Democracy, its goals and ways to achieve it	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Tenth	2	Forms of democracy	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Eleventh	2	Democracy in Iraq	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Twelfth	2	People's participation in legislative work	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Thirteenth	2	The referendum and its types and causes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Fourteenth	2	Popular referendum and popular solution	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Fifteenth	2	Election of the Iraqi Transitional National Assembly	Explanation of the lecture with the presence of means of illustration	Classroom	Exams

10. Course Evaluation

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Textbooks

Main references

Scientific resources within the Internet

Sport Course Description Form

1. Course Name					
Sport					
2. Course Code					
NTU104					
3. Semester/Level					
Second /First					
4. Description preparation date					
2025/2/2					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/2					
7. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> The course aims to provide the student with the concept of exercises and their historical development, introduce him to the different exercise schools, introduce him to the original and derived exercise situations and special situations, develop the basic motor skills of exercise, as well as identify some types of sports, their laws and benefits. 		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups Field visits 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Introduction to sport and its benefits	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Second	2	Terms in the anatomy of the human body	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Third	2	The skeletal system of the human body	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Fourth	2	Muscular system of the human body	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams

Fifth	2	The nervous system of the human body	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Sixth	2	Sports Medicine and Sports Injuries	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Seventh	2	First aid for sports injuries	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Eighth	2	Fatigue and ways to treat it	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Ninth	2	Ethics and sportsmanship	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Tenth	2	Football Laws	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Eleventh	2	Basketball Laws	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Twelfth	2	Volleyball Laws	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Thirteenth	2	Tennis Laws	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Fourteenth	2	Swimming radiance and its benefits	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams
Fifteenth	2	Athletes of the arena and the field and its laws	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and sports hall	Exams

10. Course Evaluation

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Main references

Scientific resources within the Internet

Laboratory and Workshop Safety Course Description Form

1. Course Name					
Safety of laboratories and workshops					
2. Course Code					
TID108					
3. Semester/Level					
second /First					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/2					
7. Course Objectives					
Course Objectives			Identify the rules of safety and security and the ability to deal with sources of hazards in laboratories and workshops		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Basic equipment to be available in the laboratory (laboratory arrangements)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Second	2	Safety precautions when handling laboratory instruments, chemicals	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Third	2	Safety precautions upon completion of laboratory work	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourth	2	Fires and their types	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
fifth	2	Fire extinguishing means	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

Sixth	2	Personal Protective Equipment	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	2	Chemical hazards - and how to deal with them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	2	Radiological hazards	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	2	Biological hazards	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	2	Laboratory (medical) waste disposal	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	2	First aid in laboratories	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	2	Use of warning signs in the laboratory	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	2	Environmental factors and their impact on safety and health (light, noise, heat, humidity)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourteenth	2	Safety in Field Studies	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifteenth	2	Chemical and medical storage methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

10. Course Evaluation

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Scientific research

Scientific resources within the Internet

Arabic Course Description Form

1. Course Name					
Arabic Language					
2. Course Code					
NTU103					
3. Semester / Level					
Second /First					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/2					
7. Course Objectives					
Course Objectives				It aims to enable students with Arabic language skills and issues at all levels: phonetic, morphological, grammatical, semantic, stylistic, and written	
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Introduction to linguistic errors	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Second	2	Rules for writing an elongated and compartment thousand	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Third	2	Al-Daad and Al-Zaa	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourth	2	Hamza writing	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifth	2	Punctuation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

Sixth	2	Noun and verb and differentiate between them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	2	Effects	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	2	Number	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	2	Applications of common linguistic errors	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	2	Noon and Tanween	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	2	Formal aspects of administrative discourse	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	2	Meanings of prepositions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	2	Solar and lunar letters	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourteenth	2	T tied and long	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifteenth	2	T Open	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

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Physiology Course Description Form

1. Course Name					
Physiology					
2. Course Code					
TID106					
3. Semester / Level					
First /First					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
60 / 4					
7. Course administrator name					
Hind Tareq Hamad					
8. Course Objectives					
Course Objectives				The student's knowledge of the function of each organ in the human body and its role in the balance of the body	
9. Teaching and Learning Strategies					
<ul style="list-style-type: none"> • Adequate explanation of the course • Daily Tests • Student groups • Field visits 					
10. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	4	Blood – its components – blood swab – blood volume – red blood cells – number of red blood cells – shape – method of counting them	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	4	Leukocytes - their number - types - the normal proportions of each type - the work of white blood cells.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Third	4	Blood clotting – blood acidity – blood discs and their function.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	4	Anemia – types of anemia.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Fifth	4	Jaundice - its types - causes of jaundice - erythrocyte decomposition.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Sixth	4	Cardiovascular system – Overview of the anatomy of the circulatory system – Anatomy of the heart – Heart valves.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	4	The location of the heart relative to the surface of the living body - the heart as a pump - cardiac subtraction.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	4	ECG – cardiac sounds – cardiac valve areas – natural sounds.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	4	Arterial blood pressure – silent blood flow – atmospheric pressure – blood pressure measurement.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	4	Factors affecting blood pressure - high - low - central control of blood vessels - measurement of high blood pressure - low.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	4	Respiratory system – respiratory muscles – diaphragm – diaphragm function relative to the lungs.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	4	Respiratory volumes – spare volume of exhalation – reserve volume of inhalation – vital capacity – factors affecting vital capacity.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	4	Diseases that affect the effectiveness of respiratory volumes – nasal function.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	4	Pulmonary alveoli function	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	4	Digestive system – mouth – pharynx.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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Medical Terminology Course Description Form

1. Course Name					
Medical terminology					
2. Course Code					
TID109					
3. Semester / Level					
First /First					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 / 30					
7. Course Objectives					
Course Objectives		The student's knowledge of comprehensive and detailed information about the terminology used to describe the organs and structures of the human body, the different types of tests and their medical abbreviations, and enable him to understand the bulk of the discussions in English for any topic within the systematic lectures, seminars and external conferences.			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups Field visits 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Introduction to Medical Terminology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Second	2	Root	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Third	2	Prefix	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourth	2	Subsequent	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifth	2	Mobile Splicing Rules	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Sixth	2	Connecting forms	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

Seventh	2	Medical terminology and pathology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	2	Terminology of the heart, circulation and nervous system	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	2	Gastrointestinal and urinary terminology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	2	Lymphatic system terminology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	2	Respiratory terminology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	2	Teeth and maxillofacial	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	2	Terms of conditions and trends	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourteenth	2	Musculoskeletal terminology	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifteenth	2	Terminology of the skeletal system	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

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Scientific research

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Biomechanics of orthosis Course Description Form

1. Course Name					
Biomechanics of orthosis					
2. Course Code					
IPT 208					
3. Semester / Level					
Second semester/second level					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
45/3					
7. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> The ability to master angles and deviations when manufacturing limbs Efficiency in distributing the stress on the amputated limb 			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Mechanics of Orthosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Second	3	Moment of equilibrium.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Third	3	Free body diagram	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Fourth	3	Bending moment	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Fifth	3	Design of Orthosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Sixth	3	Function of orthosis joint	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams

Seventh	3	Affected of joint on gait	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Eighth	3	Kinamtics and acceleration	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Ninth	3	Equilibrium for ankle deformity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Tenth	3	Effectd of rigidity equipment	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Eleventh	3	Mechanic of function of AFO	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Twelfth	3	Examine the AFO	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Thirteenth	3	Biomechanics of ankle foot deformity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Fourteenth	3	Biomechanics of ankle foot gait	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
Fifteenth	3	Exam	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams

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Scientific resources within the Internet

Biomaterials Course Description Form

1. Course Name					
Biomaterials					
2. Course Code					
IPT213					
3. Semester / Level					
Second semester/second level					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/2					
7. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> 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. 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. Corrosion resistance: Some biomaterials provide high resistance to corrosion, which extends the life of prosthetic limbs and medical supports. 			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Use of Biomaterials	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Second	2	Biomaterials in Organs	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Third	2	Materials for use in the Body	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourth	2	Selection of Biomedical Materials	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

Fifth	2	Materials Evaluation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Sixth	2	Polymers	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	2	Metals	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	2	Ceramics	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	2	Biological Soft Tissue Materials	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	2	Mechanical properties of Biomaterial	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	2	Thermal Properties	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	2	Bio-Ceramics	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	2	Biomedical Application in Medicine	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourteenth	2	Modern Biotechnology Techniques	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifteenth	2		Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

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Main references

Scientific resources within the Internet

Parasites Course Description Form

1. Course Name					
Parasites					
2. Course Code					
IPT 216					
3. Semester / Level					
first semester/second level					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
45/3					
7. Course Objectives					
Course Objectives		The new parasites are specially designed to enable Dravis to create new software, which is world-famous, which is world-famous, with what we need to design and program software Why do we need more features, methods, methods, and new methods This article has become brief, character design methods and the main part of it.			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	3	Defines the parasites ,parasitology types of parasites Types of host Classification of parasites Protozoa + metazoan Metazoa [helminthes and arthropoda]	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
2	3	Introduction generally in characteristic feature of protozoa and classification:- Rhizopoda ,Mastigophora ,Cilophora (ciliate) ,Telospora	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
3	3	Class Rhizopoda Pathogenic amoeba Entamoeba histolytica Morphology ,life cycle ,Pathogenicity Lab.diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
4	3	Few of morphology ,pathogenicity ,diagnosis of :- Entamoeba gingivalis , A canthamoeba ,Naegleria	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
5	3	Non pathogenic amoeba Different between Entamoeba coli and E. histolytica . and morphology , Lab, diagnosis of Iodamoeba butschlii , Endolimax nana ,E. dispar ,Dientamoeba fragilis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

6	3	Class Mastigophor or Flagellates generally introduction in characteristic feature and classification in (intestinal flagellate, blood and tissue flagellates ,genital flagellates). Intestinal Flagellate :- Giardia lamblia ,Chilomastix mesnili ,Trichomonas hominis ,Morphology ,life cycle ,pathogenicity ,and lab. Diagnosis .	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
7	3	Genital flagellate Trichomonas vaginales Oral flagellates Trichomonas tenax Morphology ,pathogenicity and lab. diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
8	3	Tissue and blood flagellate Haemoflagellates forms. Lishmania donovani Lishmania tropica Lishmania braziliensis Morphology ,life cycle ,pathogenicity, Lab. diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
9	3	Trypanosoma cruzi Trypanosoma brucei Morphology ,life cycle ,pathogenicity, Lab. Diagnosis Sample of Tse-tse fly and Reduviid bug.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
10	3	Class Ciliophra (cilata) Blattidium coli Morphology ,life cycle ,pathogenicity, Lab. diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
11	3	Class Sporozoa Generally introduction of characteristic features of sporozoa. Life cycle in generally of Plasmodium spp. In man and insects.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
12	3	Plasmodium vivax Plasmodium ovale pathogenicity, Lab. Diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
13	3	Plasmodium malariae Plasmodium falciparum pathogenicity, Lab. diagnosis and short notes of parasites Babesia spp. The defferentes in lab. diagnosis with Plasmodium spp.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
14	3	Isosporia belli , Toxoplasma gondii Morphology ,life cycle ,pathogenicity, Lab. Diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
15	3	Cryptosporidium spp. Morphology ,life cycle ,pathogenicity, Lab. Diagnosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

10. Course Evaluation

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11. Learning and Teaching Resources

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Main references

Scientific resources within the Internet

Physiotherapy methods Course Description Form

1. Course Name					
Physiotherapy methods					
2. Course Code					
IPT215					
3. Semester / Level					
First /second					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
45/3					
7. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> Physical therapy aims to improve the individual's ability to use prosthetic limbs efficiently and effectively in movement and daily performance 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. Improving balance and motor coordination, as physical therapy includes exercises to improve the individual's balance and motor coordination using prosthetic limbs. 			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	3	Physical Therapy Techniques	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
2	3	Muscles and Tendons	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
3	3	Strength training exercises	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
4	3	Stretching exercises	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
5	3	Balance Techniques	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

6	3	Pain Management	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
7	3	Massage Techniques	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
8	3	Coordination exercises	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
9	3	Psychological Adaptation Techniques	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
10	3	Progress Monitoring	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
11	3	Prosthetic Use	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
12	3	Injury Prevention	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
13	3	Performance Enhancement	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
14	3	Irritation Reduction Techniques	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
15	3	Self – care Instructions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

10. Course Evaluation

Daily, monthly and final exams as well as weekly reports

11. Learning and Teaching Resources

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Main references

Scientific resources within the Internet

Properties of Material Course Description Form

1. Course Name					
Properties of Material					
2. Course Code					
IPT 211					
3. Semester / Level					
First semester/second level					
4. Description preparation date					
2025/2/2					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/ 2					
7. Course Objectives					
Course Objectives			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		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> • Adequate explanation of the course • Daily Tests • Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	2	Power and energy systems	Theoretical	Classroom	Tests and reports
2	2	Work and stress	Theoretical	Classroom	Tests and reports
3	2	Stress and tension	Theoretical	Classroom	Tests and reports
4	2	Stress and emotion	Theoretical	Classroom	Tests and reports
5	2	The breed and its types	Theoretical	Classroom	Tests and reports
6	2	The relationship between stress and tension	Theoretical	Classroom	Tests and reports
7	2	Constant movement	Theoretical	Classroom	Tests and reports
8	2	Hooke's law	Theoretical	Classroom	Tests and reports
9	2	Kinetic measurements	Theoretical	Classroom	Tests and reports
10	2	Fragility	Theoretical	Classroom	Tests and reports
11	2	Plastic for orthotics and prosthetics	Theoretical	Classroom	Tests and reports

12	2	Thermal plastic	Theoretical	Classroom	Tests and reports
13	2	Plastic T.H/PP.RT/PVC/ACP	Theoretical	Classroom	Tests and reports
14	2	Plastic LT and its application	Theoretical	Classroom	Tests and reports
15	2	Thermal assembly	Theoretical	Classroom	Tests and reports

10. Course Evaluation

Daily, monthly and final exams as well as weekly reports

11. Learning and Teaching Resources

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Main references

Scientific resources within the Internet

Computer Course Description Form

1. Course Name					
computer					
2. Course Code					
NTU 200					
3. Semester / Level					
Second/ second					
4. Description of preparation date					
2025/2/2					
5. Available attendance formats					
weekly attendance					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30 / 2					
7. Course Objectives					
Course Objectives			Familiarize the student with various computer applications and be able to distinguish between the types of software that can be handled, and identify artificial intelligence and the prospects of dealing with it and how to benefit from it in all areas of life.		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	2	Introduction to artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
2	2	History of artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
3	2	Artificial intelligence techniques and methods	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
4	2	Challenges and ethical considerations in artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
5	2	Artificial intelligence in smartphones and virtual assistants such as siri / Google assistant	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams

6	2	Applications of artificial intelligence in education, health, finance, transport and marketing	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
7	2	The impact of artificial intelligence on society	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
8	2	Artificial intelligence and international relations	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
9	2	Artificial intelligence and the future of humanity.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
10	2	Ethics of artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
11	2	Artificial intelligence, privacy and surveillance	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
12	2	Future directions in artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
13	2	Modern research and emerging technologies in the field of artificial intelligence	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
14	2	Future outlook	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams
15	2	The role of intelligence in smartphones	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Laboratory	Exams

10. Course Evaluation
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Scientific resources within the Internet

Sample Course Description of the Crimes of the Baath Regime in Iraq

1. Course Name					
Crimes of the Baath regime in Iraq					
2. Course Code					
NTU203					
3. Semester / Level					
First / Second					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 / 30					
7. Course Objectives					
Course Objectives		Introducing the Baath regime and its emergence in Iraq and the types of crimes practiced by it over decades and studying the motives behind the implementation of various crimes against the Iraqi people.			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none">• Adequate explanation of the course• Daily Tests• Student groups					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Basic political terminology	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Second	2	The emergence of the Baath Party in Iraq	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Third	2	Types of crime	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Fourth	2	Causes and motives of the crime	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Fifth	2	Perpetrators of Baath regime crimes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams

Sixth	2	The United Nations' view of the crimes of the Baath regime	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Seventh	2	Human rights and crimes of the Baath regime	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Eighth	2	Human rights violations by the Baath regime	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Ninth	2	Military crimes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Tenth	2	Political crimes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Eleventh	2	Economic crimes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Twelfth	2	Civil offenses	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Thirteenth	2	Social crimes	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Fourteenth	2	Genocide	Explanation of the lecture with the presence of means of illustration	Classroom	Exams
Fifteenth	2	Mass graves	Explanation of the lecture with the presence of means of illustration	Classroom	Exams

10. Course Evaluation

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Scientific resources within the Internet

lower limbs orthosis manufacturing Course Description Form

1. Course Name					
lower limbs orthosis manufacturing					
2. Course Code					
IPT206					
3. Semester / Level					
Second /second					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
120 / 8					
7. Course Objectives					
Objectives		1-Efficiency in communicating with workers in the field of support industry and exchanging experiences 2-Emphasizing the knowledge and skill required to perform duties and responsibilities. Technician in prosthetics. Efficiently . 3-The ability to identify amputation areas and find the appropriate support for them 4-The ability to use molding and sculpting devices to achieve optimal manufacturing.			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	8	History of Orthosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
2	8	Motor disability	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
3	8	Foot deformities (F.O)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
4	8	Foot deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
5	8	Foot deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams

6	8	Foot deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
7	8	Ankle deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
8	8	Foot deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
9	8	Foot deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
10	8	Foot deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
11	8	knee deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
12	8	Foot deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
13	8	Foot deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
14	8	Hip deformities HKFO	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams
15	8	Exam	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and Workshop	Exams

10. Course Evaluation

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Scientific resources within the Internet

Upper limb orthosis Manufacturing Course Description Form

1. Course Name					
Upper limb orthosis Manufacturing					
2. Course Code					
IPT 207					
3. Semester / Level					
First /Second					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
120 / 8					
7. Course Objectives					
Course Objectives			The ability to understand the basic foundations and principles of how to design and manufacture upper limb orthotics, the ability to put problems into definition and find appropriate solutions, and encourage students to think creatively and invent new and innovative designs for upper limb orthotics.		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	8	Orthotic Device: A device designed to support, align, prevent, or correct deformities or to improve the function of movable parts of the body.	Theoretical + practical	Classroom+Workshop	Tests and reports
Second	8	Socket Design: The process of designing the interface between the residual limb and the orthotic socket.	Theoretical + practical	Classroom+Workshop	Tests and reports
Third	8	Component Selection: Choosing the appropriate materials and components for constructing upper-limb orthotic devices	Theoretical + practical	Classroom+Workshop	Tests and reports
Fourth	8	Alignment: Ensuring the correct alignment of the orthotic components to optimize function and comfort	Theoretical + practical	Classroom+Workshop	Tests and reports

Fifth	8	Suspension Systems: Mechanisms used to secure the orthotic device to the body, ensuring proper fit and function.	Theoretical + practical	Classroom+Workshop	Tests and reports
Sixth	8	Prosthetic Joint: The artificial joint component of an orthotic device, designed to mimic the function of the natural joint.	Theoretical + practical	Classroom+Workshop	Tests and reports
Seventh	8	Fabrication Techniques: Methods used to manufacture upper-limb orthotic components, such as casting and machining.	Theoretical + practical	Classroom+Workshop	Tests and reports
Eighth	8	Gait Training: Teaching patients how to walk with their orthotic devices effectively and safely.	Theoretical + practical	Classroom+Workshop	Tests and reports
Ninth	8	Exam	Theoretical + practical	Classroom+Workshop	Tests and reports
Tenth	8	Socket Design	Theoretical + practical	Classroom+Workshop	Tests and reports
Eleventh	8	Upper limb Orthosis	Theoretical + practical	Classroom+Workshop	Tests and reports
Twelfth	8	Prosthetic Arm	Theoretical + practical	Classroom+Workshop	Tests and reports
Thirteenth	8	Orthotic Hand	Theoretical + practical	Classroom+Workshop	Tests and reports
Fourteenth	8	Biomechanics of A.k Prosthesis	Theoretical + practical	Classroom+Workshop	Tests and reports
Fifteenth	8		Theoretical + practical	Classroom+Workshop	Tests and reports

10. Course Evaluation

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Main references

Scientific resources within the Internet

Manufacturing of upper limbs prosthesis Course Description Form

1. Course Name					
Manufacturing of upper limbs prosthesis					
2. Course Code					
IPT 209					
3. Semester / Level					
First /second					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
45 / 3					
7. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> -1 Competence in dealing with patients during the installation of a hand or arm -2 Proficiency in casting special molds and the hand carving method -3 The ability to interact with those specialized in the field of handicrafts. 4- Distinguish between what is required, whether the case requires an electronic or mechanical hand 			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	3	Cosmetic prosth. For partial.	Theoretical + practical	Classroom and Workshop	Tests and reports
2	3	Cosmetic prosth. For partial	Theoretical + practical	Classroom and Workshop	Tests and reports
3	3	Cosmetic prosth for blow elbow	Theoretical + practical	Classroom and Workshop	Tests and reports
4	3	Cosmetic prosth for above elbow	Theoretical + practical	Classroom and Workshop	Tests and reports

5	3	Cosmetic prosth for above elbow	Theoretical + practical	Classroom and Workshop	Tests and reports
6	3	Cosmetic prosth for above elbow	Theoretical + practical	Classroom and Workshop	Tests and reports
7	3	Cosmetic prosth through shoulder	Theoretical + practical	Classroom and Workshop	Tests and reports
8	3	Cosmetic prosth through shoulder	Theoretical + practical	Classroom and Workshop	Tests and reports
9	3	Stump examination	Theoretical + practical	Classroom and Workshop	Tests and reports
10	3	Mechanical prosth. through' .wrist	Theoretical + practical	Classroom and Workshop	Tests and reports
11	3	Mechanical prosth. through below elbow	Theoretical + practical	Classroom and Workshop	Tests and reports
12	3	Mechanical prosth. through below elbow	Theoretical + practical	Classroom and Workshop	Tests and reports
13	3	Mechanical prosth. through below elbow	Theoretical + practical	Classroom and Workshop	Tests and reports
14	3	Mechanical prosth. through below elbow	Theoretical + practical	Classroom and Workshop	Tests and reports
15	3	Introduction about the myoelectric prosth.	Theoretical + practical	Classroom and Workshop	Tests and reports

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Scientific resources within the Internet

Anatomy of upper limbs and trunk Course Description Form

1. Course Name					
Anatomy of upper limbs and trunk					
2. Course Code					
IPT 212					
3. Semester / Level					
Second semester/second level					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
45/ 3					
7. Course Objectives					
Course Objectives		1-The ability to use modern tools specialized in anatomy -2 Proficiency in dealing with the structure of the arm through knowledge of the smallest anatomical details . 3- The ability to develop appropriate solutions to the obstacles of installing the limb on the arm			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> • Adequate explanation of the course • Daily Tests • Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	3	Introduction in anatomy and term of anatomy	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Second	3	Bone of Upper extremity- Clavicle bones	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Third	3	Bone of Scapula	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourth	3	Bone of Humerus	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifth	3	Bone of Ulna	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

Sixth	3	Bone of Radius	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Seventh	3	Bones of Hand	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eighth	3	The muscles of anterior border of Shoulder reign (origin, insertion and action)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Ninth	3	The muscles of posterior border of Shoulder reign (origin, insertion and action)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Tenth	3	Revision	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Eleventh	3	Application in anatomical terms	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Twelfth	3	Use the skeleton to show the Clavicle bone	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Thirteenth	3	Use the skeleton to show the Scapula bone	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fourteenth	3	Use the skeleton to show the Humerus bone	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams
Fifteenth	3	Use the skeleton to show the Ulna bone	Explanation of the lecture with the presence of means of illustration and practical application	Classroom and laboratory	Exams

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11. Learning and Teaching Resources

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Main references

Scientific resources within the Internet

Locomotors Diseases Course Description Form

1. Course Name					
Locomotors Diseases					
2. Course Code					
IPT 210					
3. Semester / Level					
first / second					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Presence					
6. Number of Credit Hours (Total) / Number of Units (Total)					
30/2					
7. Course Objectives					
Course Objectives		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..			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	2	Introduction & clinical methods, Ankle & foot disorders : club foot , pes plans , pes cares	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
2	2	Metatarsal lesions; metatarsalagia..., Finger lesions : Hallux rigidus , hummer toe.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
3	2	Knee lesions : Gemu varum , valgus , hyperextension, Hip lesions : CDH , pesrthe's disease	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
4	2	Hip lesions : (cont.), Spines lesions: cervical & lumbar ; Spin bifida , Kyphosis , Scoliosis , Torricelli's	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
5	2	Rheumatoid arthritis & deformities , Ortheoarthritis & deformities	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

6	2	Revision, Metabolic disorders : DM, Scurvy & Rickets ,	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
7	2	Metabolic disorders : DM, Scurvy & Rickets , Short limb : causes , management in general	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
8	2	Muscle atrophy : e.g poliomyelitis, Cerebral palsy	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
9	2	Peripheral nerve lesion : Radial plexus inj , radial , ulnar N , Peripheral nerve lesion : & median	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
10	2	Peripheral nerve lesion : sciatic N , pop N & tibialis, Peripheral nerve lesion	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
11	2	Cervical prolapsed disc, Limber PID & sciatic a	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
12	2	Surgical management in orthopaedic , Physiotherapy : in orthopedic	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
13	2	Physiotherapy : in orthopedic, Manipulation treatment of orthopedic lesions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
14	2	The effect of orthosis [rules] in orthopedic , Protective orthosis	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
15	2	Revision	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

10. Course Evaluation

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Scientific resources within the Internet

Arabic Course Description Form

1. Course Name					
Arabic Language					
2. Course Code					
NTU202					
3. Semester / Level					
Second / Second					
4. Description preparation date					
2/2/2025					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 / 30					
7. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> Introducing the Arab culture by understanding the rules and principles of the Arabic language and enabling students to master their Arabic language through the ability to write the correct texts and the appropriate expression of various situations and situations within their medical specialization. 			
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Language is human identity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Second	2	The Arabic language and its origins	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Third	2	Syntax	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourth	2	Counting rules	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

Fifth	2	The style of the condition in the Arabic language	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Sixth	2	Dictation and writing	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	2	Punctuation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	2	Calligraphy	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	2	Arabic literature	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	2	The merits of writing for Al-Jahiz	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	2	Short Story (Tigers on the Tenth Day)	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	2	The poem of the night lover by Nazik Al-Malaika	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	2	Study of Surat Al-Fajr	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourteenth	2	T tied	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifteenth	2	Communication in the language	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

10. Course Evaluation

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Professional Ethics Course Description Form

1. Course Name					
Professional Ethics					
2. Course Code					
NTU204					
3. Semester / Level					
Second / Second					
4. Description preparation date					
2025/2/2					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 / 30					
7. Course Objectives					
Course Objectives				Identify the basic ethics of the profession for workers in medical specialties and qualify the graduate to deal professionally with his profession and achieve compatibility with himself and his professional environment (the patient, his companions, health workers and medical devices).	
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> • Adequate explanation of the course • Daily Tests • Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
1	2	- Principles of professional ethics in the stages of civilizational developments. - Principles of professional ethics in Arab and Islamic civilization. - Etiquette of dealing with patients in hospitals since ancient times until now.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
2	2	Professional behavior: definition, concept, practical applications, relationship between employees and their superiors.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
3		Basic ethics of the profession - Characteristics of professional ethics as a guide and guide for behavior. - How to employ professional ethics from the position of the guide to the behavior of the	Explanation of the lecture with the presence of means of illustration and	Classroom	Exams

	2	individual and his emotions and his ability to make the appropriate decision. -Characteristics and qualities of health workers... - Appearance, behavior and commitment. Moral and legal rights of the patient	practical application		
4	2	Behavioral / human - interactive - collective patterns. Its definition, nature, motives, interpretations, and factors affecting it.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
5	2	Communication/linguistic and non-linguistic styles - Definition, types, effects, design of successful communication methods. - How communication styles affect behavior, listening and listening, and how to practice it with practical examples.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
6	2	Behavioral attitudes and tendencies. - Definition, classification, factors affecting them, methods of measurement.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
7	2	Values, customs and traditions. - Definition, classification, factors affecting them, methods of measurement.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
8	2	Personality styles and how to deal with them. - Definition of personality - types - relationship to the profession. - Technician's personality and manifestations	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
9	2	Conditions for improving mental health - Definition, factors affecting it, prevention of mental illness, the role of mental health in professional preparation.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
10	2	Conditions of professional compatibility and associated employment relationship. - Concept, conditions, poor professional availability.	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

11	2	Job description of the graduate's work	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
12	2	<ul style="list-style-type: none"> - Behavioral dealing with the patient. - Receiving the patient, dealing with him, gaining his trust and maintaining the secrets of the profession. - Scheduling the requirements of the required procedure. - Maintaining the patient's needs. 	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
13	2	<p>Behavioral handling of medical devices and equipment.</p> <ul style="list-style-type: none"> - Daily access to devices, tools, solutions and other requirements and preparing them for daily work, sustaining, maintaining and maintaining them. Preparing the necessary medicines for work and good disposition of them. 	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
14	2	<p>Occupational Safety</p> <ul style="list-style-type: none"> -Prevention of work hazards and accidents. Prevention of the risks of bacterial, toxic and radioactive contamination. Prevention of thoughts of infection with infectious and communicable diseases. Avoid wrong practices in the field of work. 	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
15	3	<p>Applications in professional conduct.</p> <ul style="list-style-type: none"> - Field visits to hospitals and other health institutions to view and exchange experience and information. 	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

10. Course Evaluation
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Statistics Course Description Form

1. Course Name					
Statistics					
2. Course Code					
TID205					
3. Semester / Level					
First / Second					
4. Description preparation date					
2025/2/2					
5. Available attendance formats					
Attendance on a weekly basis					
6. Number of Credit Hours (College) / Number of Units (College)					
2 / 30					
7. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> Ability to deal with various statistical methods and their vital applications within the field of medical laboratories. 		
8. Teaching and Learning Strategies					
<ul style="list-style-type: none"> Adequate explanation of the course Daily Tests Student groups 					
9. Course Structure					
Week	Hours	Subject	Learning method	Attendance Forms	Evaluation method
First	2	Basic concepts in mathematics	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Second	2	Division equation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Third	2	Purpose and continuity	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourth	2	Biostatistics	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifth	2	Statistical concepts	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

Sixth	2	The concept of probability	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Seventh	2	Calculation and counting techniques	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eighth	2	Probability distribution	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Ninth	2	Frequency distribution table	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Tenth	2	Measures of central tendency	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Eleventh	2	Methods of data classification and tabulation	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Twelfth	2	Derivative	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Thirteenth	2	Derivative of Trigonometric Functions	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fourteenth	2	Integration	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams
Fifteenth	2	Deviation and contrast	Explanation of the lecture with the presence of means of illustration and practical application	Classroom	Exams

10. Course Evaluation

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