



Module (Course Syllabus) Catalogue

2022-2023

Collogo / Instituto	Erbil Technical Health and Medical college			
College/Institute	Erbil Technical Health and Medical college			
Department	Prosthetics and Orthotics			
Module Name	Anatomy and Human Movement			
Module Code	AHM104			
Degree	Technical Diploma Bachler			
	High Diploma Master PhD			
Semester	1 st			
Qualification	Master in Rheuamtology and Medical Rehabilitation			
Scientific Title	Assistant lecturer			
ECTS (Credits)	6 ECTS			
Module type	Prerequisite Core Assist.			
Weekly hours	4 hr			
Weekly hours (Theory)	(4)hr Class (160)Total hrs Workload			
Weekly hours (Practical)	()hr Class ()Total hrs Workload			
Number of Weeks	12			
Lecturer (Theory)	Dr. Zekra Ali Aziz			
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Lecturer (Practical)				
E-Mail & Mobile NO.				
Websites				

Course Book

	-This course introduces the student to the integrated approach to the study of the physical structure of the musculoskeletal system and their functional relationship to the movements of the human body.
Course Description	-The course will give to students an in-depth appreciation of the movements of extremities, vertebral column, temporomandibular joint; normal and abnormal posture, balance, and gait.
	-This course will help the students/clinician to recognize the relationships between normal structure and function,abnormal structure and dysfunction.
	-This foundation should lead to improved evaluation and develop intervention approaches to different conditions and/or dysfunctions
	-understanding the anatomy of human muscles and skeleton of the upper and lower limb to provide therapeutic modalities based on the principles of actions and nerve supply.
	This course aims to provide the student with a comprehensive knowledge of structures and functions of the musculoskeletal system related to movement and its applications sufficient for the study of orthotics and prosthetics.
	More specifically, the student is expected to perform the following:
Course objectives	1. Define and apply anatomical terminology, position, and planes of movement.
	2. Identify and name the bones of the human body, locate and identify their landmarks, and describe the types, structure, and function of bones.
	3. Identify the types of joints in the human body and their general functional characteristics. Identify and describe the anatomy of specific joints, selected ligaments, and bursa of the human body.
	4. Identify and name the muscles of the upper extremity, lower extremity, neck, trunk, and face. Identify the bony origins and insertions of the muscles and explain and demonstrate the action of the muscles.
	5- Identify anatomical principle of upper and lower limb related to human health and diseases.

	Reading and understanding of study notes							
	• Par	ticipation in forum and	l discussions					
Student's obligation	• Par	ticipation in active con	nmunication wi	th the lectur	er			
	• Reg	gular assignment subm	ission					
	• Lab required during							
Required Learning	Lectures notes, videos, audios, platform-based conferences, homework exercises, homework correction and guidance, live consultation and problem-solving, self-study.							
Materials								
	-	projector, lab material						
	Task		Weight	Due	Relevant Learning Outcome			
		De mar Dereciaren	(Marks)	Week	Outcome			
		Paper Review	10%	4 th &11 th	24586			
	A	Homework	2%	4 011	3,4,5,&6			
Evaluation	Assignments	Class Activity	8%	6 th	1&2			
	ļnn	Report Seminar	070	0	102			
	len	Essay						
	ts	Project	8%	10 th	3,5,&6			
	Qui	5	8%	All	All			
		lterm Exam	24%					
	Final Exam		40%					
	Total		100%					
	1 -Ability to develop general knowledge in Prosthetics and orthotics and understand the subjects of the module.							
Specific learning	2- Ability to understand and use, of general anatomy in Prosthetics and orthotics							
outcome:	3-de	monstrate the ability to	think critically and solve problems.					
	4- Ability to apply knowledge in practice.							
	5- Ability to make a reasoned decision.6- Apply understanding of humananatomy of upper and lower limb on demonstration of evidence based practicle .							
		natomy of Movement,	1		ised Edition)			
Course References:	Blan	dine Calais-German.						
	2. Anatomy and human movement - structure and function, Nigel							
	Palastanga, Roger SoamesChurchill Livingstone, 2012.							
	3. Kinesiology of the Musculoskeletal System: Foundations for							
	J. N	nesiology of the widsc	uloskeletal Syst	em. rounda				

Rehabilitation, 2nd Edition, Donald	A. Neumann.				
4- Gary's Anatomy of the Human B	4- Gary's Anatomy of the Human Body, Henry Gary				
5- Clinical anatomy By Regions 9th	5- Clinical anatomy By Regions 9th edition, Richard Snell.				
	 6- Gary's Anatomy for student, 3rd edition, Richard L Drake. 				
6- Gary's Anatomy for student, 3	edition, Richard L D	гаке.			
Course topics (Theory)	Week	Learning Outcome			
Basic anatomy: Introduction to anatomy, definition, subdivisions Body Cavities, Body Regions, anatomical position, terms related to movement, and planes.	· _	2			
Skeletal system , Cartilage, and types, Bone, classification, development, Ossification. the axial skeleton, appendicular skeleto	on.	1			
Articular System, Classification, Synovial Joints, classification, Innervation and blood supply of the joints, Muscular System Muscle types, nerve and blood supply of the muscles, Skeletal muscles, classification function.	3 rd	2			
Nervous System, brain, PNS, Functional Divisions.	4 th	2			
Musculoskeletal System of the Head and Neck, Organization and Regional Differences d of the vertebral column, Deep Back Muscl Movements in the vertebral column	es, 5 th	1			
The anatomy of the pelvic inlet and outlet and recognise their normal orientation. Explain sexual differences in pelvic skeletal anatomy.	6 th	3 & 5			
Midterm Exam					
Hip joint Bones, muscles, motions, Gluteal region, thigh.	7 th	6			
Knee joint, bones, muscles, and motion and muscles of the leg.	8 th	6			
Ankle joint and bones, muscles and motions and arches of the fo	pot. 9 th	6			
Shoulder (Pectoral) Girdle, bones, muscles, joints, movement, The shoulder joint, movements, Muscles of the Shoulder Joint, Comm Shoulder Pathologies.		4			
Musculoskeletal System of the (Thoracic Wall) Elbow complex: introduction muscle of elbow and forearm.	11 th	4			
Wrist Joint, bones, muscles, Motions , hand, bones , muscles, Join	ts 12 th	3			

and Motions.				
Final exam				
Questions Example Design Questions Example Design				
Q1-Choose the answer:				
1-The ankle joint				
A. is formed by the tibia, fibula, and the talus.				
B. has the deltoid ligament on the lateral side.				
C. is the joint for the movements of inversion and eversion.				
D. is a saddle type of joint				
E. All of the above is true.				
Q2 complete the following				
A is the lateral bone of the forearm.				
Q3-filling the blanks?				
1-the muscles of the arm are.				
A-				
В-				
C-				
D-				
2-Imaginary planes include				
A-				
B- C-				

Q4-Quiz:

1-The head of the femur sits in and articulates with the

A-Acetabulum B-os coxa C-glenoid cavity

Q5. Short essay

1-Name the extremity muscles that are located on the back

2- Name and give the origins, insertions, and motor innervations of the muscles that attach to the scapula.

3. Discuss inversion and eversion ankle sprains

Q6- matching list A to list B

List A List B

Supine scaphoid

Carpal bone when the body is lying on the back

Q6-ANSWER THE FOLLOWING BY TRUE OR FALES .and corrects the false.

1-T he elbow joint is an example of a hinge joint. True or False? True

2-The subscapularis muscle is innervated by the suprascapular nerve. True or False? False (he subscapularis muscle is innervated by the upper and lower subscapular nerves.

Extra notes:

External Evaluator: