

كلية الطب - جامعة الموصل

Gross Anatomy for PhD – الدكتوراه

Course Description

What you should write here? A course description that provides a brief summary of the most important characteristics of the course and lists the learning outcomes expected from the student to achieve when he has made maximum use of the available learning opportunities.

Educational Institution/ college	University of Mosul/ CMUM	
The department offering the course	Anatomy	
Name of Academic Program	Ph.D.	
Academic Year/Level	1 st year (Theoretical year)	
Title of the course	Gross anatomy	
Code	McAnPhDA	
Total Course Hours	Practical hours= ١٢٠	Total= ٢١٠
	Theoretical hours= ٩٠	
Details of any educational expert and /or IEE of the course	Name	Dr.basim idrees dhannoon al-kalo
	Email	basim.idrees @alnoor.edu.iq
	affiliation	alnoor university college
Date of specification approval	١-٩-٢٠٢٣	

General Aims of Course

The overall aim of the course is to provide the students with the basic anatomical knowledge of the normal structure of the human body at the level of the upper limb, thorax and lower limb and to integrate these anatomical facts with more advanced knowledge of clinical sciences.

Intended learning outcomes (ILOs) of the course:

Methods of assessment

By the end of the course, students should be able to:		of each outcome type
A. Knowledge and understanding:	<p>A¹-Describe the principal distinguishing features of bones of the upper limb</p> <p>A²-List the muscles of the upper limb and their main action and nerve supply including the rotator cuff muscles.</p> <p>A³-List the muscles that are attached to the arm and forearm and their action and nerve supply</p> <p>A⁴-Define the axilla, Describe the boundaries and borders of the axilla</p> <p>A⁵-List the contents of the axilla.</p> <p>A⁶-Describe the components of the joints of the upper limb.</p> <p>A⁷-Describe the stability of the shoulder joint.</p> <p>A⁸-Describe the cubital fossa, list the contents of the cubital fossa.</p> <p>A⁹-Understand the clinical importance of the cubital fossa</p> <p>A¹⁰-Describe the components of the elbow joint.</p> <p>A¹¹-List the muscles acting on the elbow joint</p> <p>A¹²-Describe the components of the wrist joint.</p> <p>A¹³-List the muscles acting on the wrist joint</p> <p>A¹⁴-Describe the carpal tunnel and the flexor and extensor retinacula and the structures passing in relation to the retinacula</p> <p>A¹⁵-Describe the snuffbox.</p> <p>A¹⁶-Describe the movement of the fingers and list the muscles acting on the fingers.</p> <p>A¹⁷-Describe the principal distinguishing features of bones of the thoracic cage</p> <p>A¹⁸-List the muscles of the thoracic wall and their main action and nerve supply.</p> <p>A¹⁹-List the contents of intercostal space.</p> <p>A²⁰-Define the pleura.</p>	

	<p>A٢١-Describe lungs.</p> <p>A٢٢-Describe the components of the mediastinum.</p> <p>A٢٣-Describe the surface anatomy of the heart.</p> <p>A٢٤-Describe the chambers of the heart.</p> <p>A٢٥-Understand the conductive system of heart.</p> <p>A٢٦-List the blood supply of the heart.</p> <p>A٢٧-List the posterior mediastinal structures.</p> <p>A٢٨-Describe the principal distinguishing features of bones of the lower limb</p> <p>A٢٩-List the muscles of the lower limb and their main action and nerve supply.</p> <p>A٣٠-List the cutaneous nerves of the lower limb.</p> <p>A٣١-Define the femoral triangle, Describe the boundaries and borders of the triangle</p> <p>A٣٢-List the boundaries and contents of the adductor canal.</p> <p>A٣٣-Describe the components of the joints of the lower limb.</p> <p>A٣٤-Describe the stability of the hip joint.</p> <p>A٣٥-Describe the popliteal fossa, list the content of the popliteal fossa.</p> <p>A٣٦-Understand the clinical importance of the gluteal region and popliteal fossa</p> <p>A٣٧-Describe the components of the knee joint.</p> <p>A٣٨-List the muscles acting on the knee joint</p> <p>A٣٩-Describe the components of the ankle joint.</p> <p>A٤٠-List the muscles acting on the ankle joint</p> <p>A٤١-Describe the flexor and extensor</p>	
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	<p>retinacula and the structures passing in relation to the retinacula</p> <p>A ٤٢-Describe the soles of feet.</p> <p>A ٤٣-Describe the movement of the toes and list the muscles acting on them.</p> <p>A ٤٤..Describe the principal distinguishing features of bones of the skull.</p> <p>A ٤٥.List the muscles of the head as well as neck and their main action and nerve supply.</p> <p>A ٤٦.List the layers of the scalp.</p> <p>A ٤٧.List the cutaneous nerves of scalp and face.</p> <p>A ٤٨.Describe the boundaries and contents of the triangles of the neck.</p> <p>A ٤٩.Describe the subclavian, common carotid arteries.</p> <p>A ٥٠.Describe the internal jugular vein and vagus nerve.</p> <p>A ٥١.Understand the anatomical and clinical importance of the thyroid gland.</p> <p>A ٥٢.Understand the anatomical and clinical importance of the salivary glands.</p> <p>A ٥٣.List the lymphatics of head and neck.</p> <p>A ٥٤.Describe the muscles of mastication.</p> <p>A ٥٥.Describe orbit, ear and nose.</p> <p>A ٥٦.Describe the mouth and tongue.</p> <p>A ٥٧.Describe the pharynx and larynx.</p> <p>A ٥٨.Describe the surface anatomy of abdominal wall.</p> <p>A ٥٩.List the muscles of the abdominal wall.</p> <p>A ٦٠.List the nerve and blood supply of abdominal wall</p> <p>A ٦١.Define the rectus sheath.</p> <p>A ٦٢.List the contents of rectus sheath.</p> <p>A ٦٣.List the boundaries and contents of the inguinal canal.</p> <p>A ٦٤.Understand the clinical importance of the inguinal canal.</p>	
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	<p>A^{٦٥}.Describe peritoneum.</p> <p>A^{٦٦}.Describe the anatomy, blood and nerve supply of stomach, spleen, liver and gall bladder.</p> <p>A^{٦٧}.Describe the anatomy, blood and nerve supply of pancreas, small and large intestine.</p> <p>A^{٦٨}.Describe the Portal vein and portal circulation & Lymphatic drainage of abdomen.</p> <p>A^{٦٩}.List the branches and tributaries of abdominal aorta and inferior vena cava.</p> <p>A^{٧٠}.Describe the Autonomic innervation of abdomen and Lumbar plexus.</p> <p>A^{٧١}.Describe the anatomy, nerve supply, blood supply and lymphatics of kidneys and the suprarenal glands.</p> <p>A^{٧٢}.Understand the anatomy, nerve and blood supply of the diaphragm.</p> <p>A^{٧٣}.Describe the principal distinguishing features of bones of the pelvis.</p> <p>A^{٧٤}.List the muscles and contents of perineum.</p> <p>A^{٧٥}.Describe the male and female urethra and bladder.</p> <p>A^{٧٦}.Describe the genital organs in both sexes.</p> <p>A^{٧٧}.Understand the clinical importance of pelvic diaphragm.</p> <p>A^{٧٨}.List the blood supply and nerve supply of the pelvis.</p>	
B. Professional Skills	<p>B^٧-Locate the peripheral pulses and evaluate their features</p> <p>B^٨-Locate the brachial artery pulsation for efficient blood pressure assessment.</p> <p>B^٩-Locate the dorsalis pedis artery pulsation for efficient blood supply to foot.</p> <p>B^{١٠}-Locate the apex of the heart to see whether the heart is enlarged.</p> <p>B^{١١}-Elicit the normal anatomical structures on X-rays.</p>	

	<p>B٧.Locate the carotid artery pulsation for efficient resuscitation.</p> <p>B٧.Locate the exact site of inguinal canal to determine the type of inguinal hernia.</p>	
C. intellectual skills	<p>C١-Integrate the anatomical facts with the basic clinical knowledge required for proper examination of a patient in order to reach a proper diagnosis</p> <p>C٢-Relate the surface markings of different structures and determine the position or course of internal structures</p> <p>C٣-Correlate the anatomical knowledge with clinical signs seen in cases of nerve injuries of upper and lower limbs.</p> <p>C٤.Correlate the anatomical knowledge with clinical signs seen in cases of injuries of male urethra and scalp.</p>	
D. General and Transferable Skills	<p>D١-read and appraise scientific papers related to anatomy</p> <p>D٢-present scientific facts in a well-organized matter</p> <p>D٣-use advanced technology to search for facts and prepare presentations</p> <p>D٤-work as an effective team member.</p>	
E. Attitude outcomes	<p>E١-The student will be alert because they learn how to pay attention.</p> <p>E٢-they will respond actively and share in the discussion with lecturer and with each other.</p> <p>E٣-valuing of the behaviors, ideas, personality, and ways of dealing.</p> <p>E٤-resolving problems between them according to these ethical values.</p> <p>E٥-the values become fixed in their minds thus controlling their behaviors.</p>	

Course structure

topic	No. Of lectures	No. Of practical sessions	Lecturers responsible to deliver the course
Anatomy of the upper limb	١٤	٢٠	Dr. Mona
thorax	١٤	١٨	Dr. Ahmed
Anatomy of the lower limb	١٤	٢٠	Dr. Mayson

Head and neck	٢٠	٢٦	Dr. Mayson
Abdomen	١٦	٢٠	Dr. Ahmed
Pelvis	١٢	١٦	Dr. luma

Teaching and learning methods	
١. Theoretical lectures	٣ lectures / week
٢. Practical labs or clinical sessions	<p>small groups teaching</p> <p>Plastinated cadavers, skeletons, bone and organ specimens will be available for students</p> <p>X-ray imaging films will be available to learn different bony landmarks*note: submit a copy of the logbook for evaluation</p>
٣. Seminars and presentations	Each student is required to present ٤ seminar on specific subject
٤. Others/example e-learning	Google classroom

Assessment methods (mark%):		Feedback method (for each assessment method)
Formative assessments	<p>١. formative quiz during lectures</p> <p>٢. discussion panels during assessment lab</p> <p>٣. completing Logbook</p>	<p>١. Ask the learner what went well.</p> <p>٢. Tell the learner what went well.</p> <p>٣. Ask the learner what could be improved.</p> <p>٤. Determine for the student the steps that can improve his performance</p>

Summative assessments	1. midcourse exam: 30% (10 practical, 20 theoretical) 2. final course exam: 70% (30 practical, 40 theoretical).	
Total	100%	Pass mark=60%

Resources and requirements

Essential textbooks	1. Cunningham`s Manual of Practical Anatomy, (theoretical and practical, vol. 1, 2 and 3) 2. Grant Atlas of Anatomy 3. Snell`s Clinical Anatomy by Regions
Recommended books and references (scientific journals, reports,)	1. Gray`s Anatomy 2. Atlas of Human Anatomy by FH Netter 3.
Other resources, Electronic References, Websites	Will be included in the lectures accordingly

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