

Anatomy of Musculoskeletal anatomy (practical) course plan

Semester: 2 nd	Year: 2024-2025						
M.D. program Course Syllabus							
Course Title: Musculoskeletal anatomy practical	Department: Department of Anatomical Sciences						
Course Code: 1234079	Instructor: Dr. Vajihe Asgari						
Location of teaching the course:	Credit Hours: 30 hours						
Prerequisite: none	Credit Units: 0.6 (20h)						
Office address: Faculty of Medicine, Department of Anatomical Sciences							
Tel: 031-37929155	Email: v.asgari@med.mui.ac.ir						
Number of students : 70							
Brief course description: This course covers the upper and lower limbs anatomy							
Learning outcomes: On satisfying the requirements of this course, students will have the knowledge and skills to: <ol style="list-style-type: none"> 1. Identify and correct orientation the bones of the upper and lower limbs. 2. Identify superficial fascia and its contents and parts of deep fascia. 2. Identify and describe the muscles of upper and lower limbs (origin and insertion). 3. Explain the anatomical spaces of the upper and lower limbs. 4- Describe the arteries and nerves of the upper and lower limbs. 							
References (Text books): <ol style="list-style-type: none"> 1- Grant's Dissector - Last edition 2- ADAM Interactive software 3- A Colour Atlas of Human Anatomy - Mc MINN 4- Clinical Atlas (Netter). 							
ASSESSMANT TOOLS (The assessment tools that will be used to test students ability to understand the course material and gain the skills and competencies stated in learning outcomes) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Midterm Exam</td><td style="text-align: center;">10</td></tr> <tr> <td>Final Exam</td><td style="text-align: center;">10</td></tr> <tr> <td>TOTAL MARKS</td><td style="text-align: center;">20</td></tr> </table>		Midterm Exam	10	Final Exam	10	TOTAL MARKS	20
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Students responsibilities:							

- 1- Prepare for the class in advance
- 2- Break down every system into its basic components.
- 3- Use the lectures outline (PowerPoint presentations) and handouts (if any) as a guideline for your study.
- 4- Study the course components using the required book, atlas and the websites.
- 5- Reconstruct the system so that it is functional and understandable.
- 6- Students are expected to spend 2-3 hours studying for each hour in class.

ATTENDANCE RULES

- Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class.
- Absence of one session will result in a first written warning. Absence of two sessions or more will result in a 0.25 point deduction on the final score for each session.
- Absence of more than three sessions will result in forfeiting the course and the student will not be permitted to attend the final examination.
- The instructor and written proof will be required to delete any absences from his/her attendance records.
- If the midterm and final exam questions are online, it will be described in the submitted videos and photos.

Department's Attitudes

Ethics, Critical thinking, hard work and discipline:

Examination attitudes Any evidence of cheating on a test will result in the student receiving (0 mark) for the test and will be announced through the lectures so all the students will be informed.

The instructor will be the final authority on whether cheating has occurred.

Mid exam date:

Final exam date: According to the university schedule

row	Instructor	Course topics	Time (Hour)	Date
1	Dr. Asgari	Upper limb osteology -Scapula: In placement, surfaces, borders, angles and process Clavicle: In placement, surfaces, borders and ends -Humerus: In placement, upper end - lower end and shaft.	2	The first week 3/02/2025
2	Dr. Asgari	Continuation of upper limb osteology -Radial: In placement, upper end, lower end and shaft Ulna: In placement, upper end, lower end and shaft. Hand: The bones of the wrist, palm and fingers.	2	Second week 10/02/2025
3	Dr. Asgari	Axillary cavity Walls: pectoral, scapular, thoracic and lateral Cavity	2	Third week

		contents: axillary artery and its branches, axillary vein.		17/02/2025
4	Dr. Asgari	Continuation of the axillary cavity Cavity content: Brachial plexus (roots, trunk, cords and its branches) Shoulder area: Trapezius muscles, deltoid, rhomboids, etc. Triangular and quadrangular spaces and their contents.	2	Forth week 20/02/2025
5	Dr. Asgari	Arm area: -Anterior compartment: muscles, Coracobrachialis and Brachialis -Posterior compartment: more muscle then Arteries and nerves: Brachial artery, Musculocutaneous, median, ulna and radial nerves.	2	Fifth week 24/02/2025
6	Dr. Asgari	Forearm area: - Anterior compartment: superficial and deep group muscles Arteries and nerves: radial arteries, ulnar, ulnar and median nerves Cubital cavity: definition and contents.	2	Sixth week 2/3/2025
7	Dr. Asgari	Continuation of forearm area: Posterior compartment: superficial and deep group muscles Arteries and nerves: Posterior interosseous artery, arterial radial nerve Area of the hand: palms of the hands, tenor muscles, hypotenuses and lumbricals, superficial arch of the palm (using modeling).	2	Seventh week 9/3/2025
8	Dr. Asgari	Lower limb osteology Hip: In placement, surfaces, borders in general and ilium, pubis and ischium Femur: In placement, upper end, lower end and shaft.	2	Eighth week 16/03/2025
	Dr. Asgari	Continuation of lower limb osteology Tibia: In placement, upper end, lower end and shaft	2	Ninth week 2/04/2025

		Fibula: In placement, upper end, lower end and shaft Foot: The bones of the ankle (talus, calcaneus, etc.) The sole of the foot.		
9	Dr. Asgari	Gluteal region Gluteal muscles, Short Rotator muscles, Gluteal arteries and nerves.	2	Tenth week 6/04/2025
10	Dr. Asgari	Thigh area: Posterior compartment: hamstring muscles, sciatic nerve, etc. Anterior compartment: quadriceps and sartorius muscles medial compartment: adductor muscles (Brevis, longus, Magnus, Gracilis, etc.) spaces: femoral triangle and its contents, adductor canal and its contents.	2	Eleventh week 13/04/2025
11	Dr. Asgari	Leg area Anterior compartment: muscles, arteries and nerves External compartment: muscles, arteries and nerves Posterior compartment: superficial and deep muscles, arteries and nerves Popliteal cavity: its scope and contents.	2	Twelfth week 20/04/2025
12	Dr. Asgari	Foot area The muscles of the back of the foot, the sole of the foot, the muscles of the first, second, and third layers of the sole of the foot Internal and external plantar vessels and nerves (use of modeling)	2	Thirteenth week 27/04/2025
13	Dr. Asgari	Answer to your questions and prepare for the practical final exam	2	Fourteenth week 4/05/2025
14		Final exam, according to the university schedule		