Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Radiologic Technology Department

RA733 Advanced Anatomy
Second Semester 2023-2024

Course Catalog
2 Credit Hours. This course will provide a review of the gross anatomy of the entire body. Detailed study of gross anatomical structures will be conducted systematically for location, relationship to other structures and function. Structures are located and identified in axial (transverse), sagittal, coronal and orthogonal (oblique) planes. Illustrations and anatomic images will be compared with MR, ultrasound and CT images in the same imaging planes and at the same level when applicable. The characteristic appearance of each anatomical structure as it appears on CT, MR and ultrasound, when applicable, will be stressed.
Teaching Method: On Campus

Text Book	
Title	Atlas of Human Anatomy
Author(s)	Frank H. Netter
Edition	7th Edition
Short Name	1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
2	Cross-Sectional Human Anatomy	David L. Felten et al	3rd Edition	
3	Clinical Anatomy by Systems	Richard S. Snell	8th Edition	

Instructor	
Name	**Dr. Mustafa Alhasan**
Office Location	Faculty of Applied Medical Sciences

Office Hours	Sun : 15:00 - 16:00 Mon : 12:30 - 15:30 Tue : 15:00 - 15:30 Wed : 14:30 - 16:00
Email	mkalhasan@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Wed : 12:30 - 14:30 Room: LAB

Teaching Assistant
Rasha Elshayib(Section 1)

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to Radiological Anatomy 1	From **1**, From **2**, From **3**
Week 2	Introduction to Radiological Anatomy 2	From **1**, From **2**, From **3**
Week 3	Cross-Sectional Anatomy 1	From **1**, From **2**, From **3**
Week 4	Cross-Sectional Anatomy 2	From **1**, From **2**, From **3**
Week 5	Surface Anatomy and Landmark Identification 1	From **1**, From **2**, From **3**
Week 6	Surface Anatomy and Landmark Identification 2	From **1**, From **2**, From **3**
Week 7	Musculoskeletal Anatomy 1	From **1**, From **2**, From **3**
Week 8	Musculoskeletal Anatomy 2	From **1**, From **2**, From **3**

Week 9	Neuroanatomy	From **1**, From **2**, From **3**
Week 10	Neuroanatomy	From **1**, From **2**, From **3**
Week 11	Clinical Correlations and Case Studies	From **1**, From **2**, From **3**
Week 12	Clinical Correlations and Case Studies	From **1**, From **2**, From **3**
Week 13	Correlation of radiological findings with clinical presentations	From **1**, From **2**, From **3**
Week 14	Case studies illustrating anatomical variations and pathology	From **1**, From **2**, From **3**
Week 15	Review of common anatomical variants and imaging artifacts	From **1**, From **2**, From **3**
Week 16	Revision	From **1**, From **2**, From **3**

Mapping of Course Outcomes to Program Outcomes	**Course Outcome Weight (Out of 100%)**	**Assessment method**
Demonstrate a comprehensive understanding of human anatomy as visualized through radiological imaging.	20%	mid
Identify and interpret anatomical structures in various imaging modalities, including computed tomography (CT) and magnetic resonance imaging (MRI).	20%	mid
Analyze cross-sectional anatomy images to localize anatomical structures and pathology	20%	mid
Apply knowledge of surface anatomy to clinical practice, including patient positioning and landmark identification.	20%	final
Correlate radiological findings with anatomical structures and clinical presentations.	20%	final

Relationship to Program Student Outcomes (Out of 100%)												
PLO B1	PLO B2	PLO B3	PLO B4	PLO B5	PLO B6	PLO B7	PLO M1	PLO M2	PLO M3	PLO M4	PLO M5	PLO M6

Evaluation	
Assessment Tool	**Weight**
mid	50%
final	50%

Policy	
Statement on Professionalism	Professional behavior is expected of students at all times. Attitude and professional behavior are a minimum criterion for passing this class. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lecture, leaving a lecture prior to its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.
Cheating	University regulations will be applied on cases of cheating and/or plagiarism
Cell phone	The use of cellular phone is prohibited in class rooms and during exams. The cellular phone must be switched off in class rooms and during exams.
Attendance	No points will be count for points attendance of this class, however attending the lectures will greatly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes!
Absences	University regulations will be applied. Students are not allowed to be absent for more than 20% of lectures for any reason or excuse. If a student exceeds the absence limit, he or she will not be allowed to sit for future course exams. (Please review university regulation for more details)
Make-up Exam	Make-up exams is entitled for students who miss the exam with accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (Please review university regulation for more details)
Feedback	Concerns, complaints, questions, and/or feedback are appreciated and will be important for the instructor. You can contact your instructor using the e-mail or during office hours.

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