

Vocational School of Health Services / Radiotherapy

2024 - 2025 Academic Year

RADIOLOGICAL ANATOMY

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
RADIOLOGICAL ANATOMY	RAD1228200	Spring Semester	2+0	2	4
Prerequisites Courses					
Recommended Elective Courses	MEDICAL IMAGING DEVICES				
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Prof.Dr. Cengiz EROL				
Name of Lecturer(s)	Lect. Navid KHERADMAND				
Assistant(s)					
Aim	The purpose of this course is to gain knowledge and skills about the radiographic images and anatomical structures obtained from conventional, digital, fluoroscopic and cross-sectional methods.				
Course Content	This course contains; Introduction to Anatomy and Basic Medical Terminology, Basic Concepts of Radiologic Anatomy, Radiologic Anatomy of Movement System I, Radiologic Anatomy of Movement System II, Radiological Cross-Sectional Anatomy I, Radiological Cross-Sectional Anatomy II, Radiologic Anatomy of the Circulatory System, Mid-term exam, Radiologic Anatomy of the Digestive System, Radiologic Anatomy of the Respiratory System, Radiologic Anatomy of the Nervous System, Radiologic Anatomy of Reproductive System, Radiological Anatomy of the Urinary System, Peripheral Organizations.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. explain basic anatomy concepts			16, 9	A	
1.1. Summarizes the concepts of radiological anatomy			16, 9	A	
1.2. Summarizes the human body systems.			16, 9	A	
2. express the radiological anatomy and approaches of partitions.			16, 9	A	
2.1. Summarizes the radiological anatomy of the motion system.			16, 9	A	
2.2. Summarizes the radiological anatomy of the digestive system and urogenital system.			16, 9	A	
2.3. Summarizes the radiological anatomy of the circulatory system and respiratory system.			16, 9	A	
2.4. Summarizes the radiological anatomy of the nervous system.			16, 9	A	
3. explain the basics of the application, and imaging.			16, 9	A	
3.1. Recognizes the structure of a cross-sectional radiological anatomy.			16, 9	A	
3.2. Recognizes between conventional and digital X-rays on the anatomical structures.			16, 9	A	
3.3. Recognizes anatomical structures on computed tomography images.			12, 16, 9	A	
3.4. Recognizes the anatomic structures on magnetic resonance imaging.			12, 9	A	
3.5. Recognizes anatomical structures on radiographs.			16, 9	A	
Teaching Methods	12: Problem Solving Method, 16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction to Anatomy and Basic Medical Terminology	Pre-Reading			
2	Basic Concepts of Radiologic Anatomy	Pre-Reading			
3	Radiologic Anatomy of Movement System I	Pre-Reading			
4	Radiologic Anatomy of Movement System II	Pre-Reading			
5	Radiological Cross-Sectional Anatomy I	Pre-Reading			
6	Radiological Cross-Sectional Anatomy II	Pre-Reading			
7	Radiologic Anatomy of the Circulatory System	Pre-Reading			
8	Mid-term exam	Pre-Reading			
9	Radiologic Anatomy of the Digestive System	Pre-Reading			
10	Radiologic Anatomy of the Respiratory System	Pre-Reading			
11	Radiologic Anatomy of the Nervous System	Pre-Reading			
12	Radiologic Anatomy of Reproductive System	Pre-Reading			
13	Radiological Anatomy of the Urinary System	Pre-Reading			
14	Peripheral Organizations	Pre-Reading			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

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Resources

- 1- BESİM AYTEKİN, ÜSTÜN AYDINGÖZ, HAKAN AKBULUT, Radiologic Diagnosis Handbook for Physicians and Medical Students, Türkiye Klinikleri Publishing House Ankara, 1992.
- 2- FERNER- H, STAUBESAND, J. Sobotta Atlas of Human Anatomy, 10th ed. Urban & Schwarzenberg, Munich, 1982.
- 3- FRANK H. Netter M.D, T. HANSEN John ph. D., Atlas of Human Anatomy, University of Rochester School of Medicine and Dentistry Rochester, Nobel Medical Bookstores, New York, 2005.
- 4- MOELLER T:B., E.Reif (Editor, Civan IŞLAK), Cross-Sectional Anatomy Pocket Atlas Computed Tomography and Magnetic Resonance Imaging, Volume I: Head and Neck, Nobel Medical Bookstores, 2007.
- 5- MOELLER T:B., E.Reif (Translation, Deniz ÇEBİ OLGUN), Cross-Sectional Anatomy Pocket Atlas Computed Tomography and Magnetic Resonance Imaging, Volume II: Thorax, Heart, Abdomen, Pelvis, Nobel Medical Bookstores, 2007.
- 6- MOELLER T:B., E.Reif (Editor: Kaya KANBEROĞLU, M.Halit YILMAZ, İlknur MUMYAPAN), Cross-Sectional Anatomy Pocket Atlas Computed Tomography and Magnetic Resonance Imaging, Volume III: Spine, extremities, joints, Nobel Medical Bookstores, 2007.
- 7- SANCAK Bedia, Meserret CUMHUR, Functional Anatomy, ODTÜ Geliştirme Vakfı Yayıncılık ve İletişim AŞ Ankara, 2008
- 8- Frank Slaby, Eugene R.Jacobs, Radiographic Anatomy Harwell Publishing Company; New edition edition (Dec 1992)
<http://www.anatomyatlases.org/atlassofanatomy/index.shtml> <http://www.ect.downstate.edu/courseware/rad/atlas/> <http://www.rad.washington.edu/sitemap> radiological anatomy <http://www.e-radiography.net> □
Lecture notes