



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		The Anatomy Of Medical Imaging Techniques							
Course Code		TG104		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	76 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course is, to gain knowledge and skills about anatomic structures on conventional, digital, fluoroscopic and cross sectional radiographies							
Course Content		Anatomic structures on the Head and Face Radiography Anatomic structures on the Lung and Body Radiography Anatomic structures on the Upper and Lower Extremity Radiography Anatomic structures on the mammography images Cross sectional Anatomy of Head and Neck Computed Tomography (CT) Cross sectional Anatomy of Body (Thorax, Abdominal, Vertebrae) CT Cross sectional Anatomy of Upper and Lower Extremity CT Cross sectional Anatomy of Head and Neck Magnetic Resonance Imaging (MRI) Cross sectional Anatomy of Body (Thorax, Abdominal, Vertebrae) MRI Cross sectional Anatomy of Upper and Lower Extremity MRI Anatomic structures of Cerebral and Neck Anjiography Anatomic structures of Thoracal and Abdominal Anjiography Anatomic structures of Upper and Lower Extremity Anjiography Anatomic structures of Digestive, Biliary and urogenital System							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)		Lec. Emir Hüseyin NEVAİ							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Gerard J. Tortora, Bryan Derrickson, Principles of Anatomy and Physiology, Wiley Press, 13th Edition
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Week	Weekly Detailed Course Contents	
1	Theoretical	Anatomical Structures Head and face radiograms
2	Theoretical	Anatomical Structures on the lung and body radiograms
3	Theoretical	Anatomical Structures on the upper and lower extremity radiograms
4	Theoretical	Anatomical Structures On The Mammogram Images
5	Theoretical	Cross sectional anatomy in head and Neck CT
6	Theoretical	Cross sectional anatomy in Body (Thorax, Abdominal and Vertebrae) CT
7	Theoretical	Cross sectional anatomy in upper and Lower Extremity CT
8	Intermediate Exam	Midterm Exam
9	Theoretical	Cross sectional anatomy in head and Neck MRI
10	Theoretical	Cross sectional anatomy in Body (Thorax, Abdominal and Vertebrae) MRI
11	Theoretical	Cross sectional anatomy in upper and Lower Extremity MRI
12	Theoretical	Anatomical Structures of Cerebral and Neck Anjiographies
13	Theoretical	Anatomical Structures of Thoracal and Abdominal Anjiographies
14	Theoretical	Anatomical Structures of upper and Lower Extremity Anjiographies
15	Theoretical	Anatomical Structures of upper and Lower Extremity Anjiographies

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Individual Work	14	0	2	28
Midterm Examination	1	2	1	3



Final Examination	1	2	1	3
Total Workload (Hours)				76
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	Learns anatomic structures on contrast radiography
2	Learns anatomic structures on Manyetik Rezonans Imaging
3	Learns anatomic structures on Computed Tomography
4	Learns anatomic structures on Conventional and Digital radyography
5	Learns anatomic structures on human body and anatomical planes

### Programme Outcomes (Medical Imaging Techniques)

1	To be able to get information the working principles of Radiology, Nuclear Medicine and Radiotherapy devices, and distinguish their components, use these devices in accordance with operating instructions.
2	To be able to perform the procedures in accordance with the examination of Radiology and Nuclear Medicine imaging .
3	To be able to apply the radiotherapy treatment, planned by radiation physicist with instruction of radiotherapist.
4	To be able to develop and perform the film printing of the images that obtained by imaging techniques of Radiology, Nuclear Medicine
5	To be able to evaluate the images that obtained by imaging techniques of Radiology, Nuclear Medicine in terms of radiographic quality and takes the necessary measures.
6	To be able to know the medical and radiologic terminology, and pronounce and use them correctly
7	To be able to take the necessary measures in accordance with the rules of Radiation safety and protection from radiation, and apply them.
8	To be able to distinguish the anatomical structures on images, obtained by the conventional and cross-sectional imaging techniques of Radiology, Nuclear medicine.
9	To be able to communicate well with patient, their family and the hospital staff.
10	To be able to move with own professional duties, powers and responsibilities of the consciousness and apply the rules of professional ethics.
11	To be able to adapt to a multi-disciplinary team work.
12	To be able to have a basic knowledge of human physiology.
13	To be able to distinguish anatomical structures.
14	To be able to establish a cause-and-effect relationship between events.
15	To be able to have the ability of analytical thinking and problem solving.
16	To be able to apply the basic principles of first aid.
17	It has basic knowledge about human anatomy
18	Understanding the basic concepts and principles of physics while providing, in the medical field and in particular medical imaging students better understand the issues involving technical vocational courses
19	OHS 'basic concepts; work accidents, occupational diseases, occupational physicians, occupational safety specialist, İSGB, OSGB, hazard classes, risk assessment, OHS employee representatives is
20	Have basic knowledge about basic medical practices and makes applications

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P2		5			
P3			5		
P5	5				
P6	5				
P10				5	
P15					5

