	М	EDIC	AL IMAGING I						
1	Course Title:	MEDIO	CAL IMAGING I						
2	Course Code:	TGTZ	TGTZ109						
3	Type of Course:	Comp	Compulsory						
4	Level of Course:		Short Cycle						
5	Year of Study:	1	1						
6	Semester:	1	1						
7	ECTS Credits Allocated:	7.00	7.00						
8	Theoretical (hour/week):	4.00	4.00						
9	Practice (hour/week):	4.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkis	h						
13	Mode of Delivery:	Face t	Face to face						
14	Course Coordinator:	Öğr. G	ör. Dr. SEFA IŞIKLAR						
15	Course Lecturers:	Öğr. G	Öğr.Gör. Sefa IŞIKLAR Öğr. Gör. Arzu Öden ACAR Öğr.Gör. İmren DEMİR						
16	Contact information of the Course Coordinator:	tlf: 022 Uludağ e-mail Phone	e-posta:sefaisiklar@uludag.edu.tr tlf: 02242940658 Uludağ Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Bursa. e-mail: sefaisiklar@uludag.edu.tr Phone number: 0224-2940658 Uludag University Vocational School of Health Services / Bursa.						
17	Website:								
18	Objective of the Course:		In this course, it is aimed to make gain the knowledge, skills and abilities to take radiography.						
19	Contribution of the Course to Professional Development:	knowle image: that th	With the Medical Imaging I course, adaptation to the physical knowledge of the X-ray device and the radiological anatomy in the images obtained through this device is provided, and it is ensured that the images are suitable for diagnostic evaluation and the difference of the pathological structure from the normal anatomy.						
20	Learning Outcomes:								
		1	Make preparations for radiographic examination						
		2	Get head radiographies						
		3	Get face radiographies						
		4	Get vertebra radiographies						
		5	Get thorax and abdomen radiographies						
			Get upper extremity radiographies						
		7	Get lower extremity radiographies						
		8	Get lung and heart radiographies						
		9	Make preparations to develop films						
		10	Print films, Make quality control processes of rdiography and dark room						
21	Course Content:								
		(Course Content:						

Week	Theoretical	Practice					
1	X-Ray Physics Course: Basic physics concepts Medical Imaging Course: Roentgenographic Terminology	Observation and application of the processes of radiologic examination					
2	X-Ray Physics Course: Structure of atom Nomenclature of atoms Ionization and ion Medical Imaging Course:	For Thorax / Lung PA and AP Imaging; • Patient Preparation • Landmark Points • Collimation and Image Recorder Factors • Patient Positioning • Technical Factor Settings					
3	AC PA-AP Radiographic Imaging Technique X-Ray Physics Course: Electromagnetic radiation Particle radiation	Thorax / Lung PA-AP R Criteria and Radiograph		g Evaluation			
	Medical Imaging Course: Thorax PA-AP Radiographic Imaging Evaluation Criteria and Radiographic Anatomy						
4	X-Ray Physics Course: Sources of radiation Discovery of X-rays Medical Imaging Course: Lung Lateral Radiography Apyclordotic Lung Radiography Right and Left A-P Oblique Lung Radiography	For Lung Lateral Radiography Apyclordotic Lung Radiography Right and Left AP Oblique Lung Radiography Tele PA / Lateral Radiography Standing Abdominal Radiography Direct Urinary System Radiography; • Patient Preparation • Landmark Points					
Activit	es	Number	Duration (hour)	Total Work Load (hour)			
Th e ore	X-Ray Physics Course: Basic parts of X-ray equipment-1	Atlas Axis (Sevikal 1st a Cervical Vertebrae A-P	nd 2nd Vertebrae)	AB 28.00			
	als/Labs	14	4.00	56.00			
Self stu	nnedical imaging Course. Cranto PA (Accipito-Frontal)	Lateral Cervicothoracic	due (Swimmers View)	98.00			
Homew		1	12.00	12.00			
Project	Submento-vertex	For Oblique Radiograph	V of Thoracic / Dors	alvertebrae:			
Field S	tudies	0	0.00	0.00			
Midterr	Town (AP Axial Sella Tursika)	Collimation and Image	Recorder Factors	6.00			
Others		0	0.00	0.00			
Final E	Stervers	 Evaluation Criteria and 	Radiographic Ana	12,00			
Total V	Vork Load			218.00			
Total w	Basic parts of X-ray equipment-2 Of 10a0/30 ht X Ray fube evaluation rulers			7.07			
	Credit of the Course	Lumbar Vertebrae AP		7.00			
	Medical Imaging Course: Orbita PA Orbita Lateral Optical Foramen Nasal Lateral Mandible P-A Mandible Lat Oblique Mandible TMJ Waters (Parietoacantial) Caldwell	Lumbar Vertebras Lat Lumbosacral Vertebras Lat Oblique Lumbar Vertebrae Lumbosacral Vertebrae Oblique Sacrum AP Sacrum Lat Coccyx AP For coccyx Lat radiography; • Patient Preparation • Landmark Points • Collimation and Image Recorder Factors • Patient Positioning • Technical Factor Settings • Evaluation Criteria and Radiographic Anatomy					

7		
	X-Ray Physics Course:	X-ray machine Console / control panel
	Obtaining X-rays	X-ray generator
	Properties of X-rays	
		Cranium PA (Occipito-Frontal)
	Medical Imaging Course:	Cranium AP (Fronto-Occipital)
	Atlas Axis (Cervical 1st and 2nd Vertebrae)	Cranium Lat
	AP	Submento-vertex
	Cervical Vertebrae AP (3-7)	(Head Base, Head Axial)
	Cervical Vertebrae Lateral	Vertiko-submental
	Cervical Vertebrae Oblique	Town (AP Axial Sella Tursika)
	Lateral Cervicothoracic (Swimmers View)	Sella Tursika Lateral
	Thoracic / Dorsal Vertebrae AP	Schüller
	Thoracic / Dorsal Vertebras Lat	For Stenvers Radiography;
	Thoracic / Dorsal Vertebrae Oblique	Patient Preparation
		Landmark Points
		 Collimation and Image Recorder Factors
		Patient Positioning
		Technical Factor Settings
		Evaluation Criteria and Radiographic Anatomy
-	X Dov Dhypion Courses	
8	X-Ray Physics Course:	Obtaining X-rays
	X-ray quantification	Orthite DA
	Quality of X-rays	Orbita PA
		Orbita Lateral
	Medical Imaging Course:	Optical Foramen
	Lumbar Vertebrae AP	Nasal Lateral
	Lumbosacral Vertebras AP	Mandible P-A
	Lumbosacral Vertebras Lat	Oblique Mandible
	Oblique Lumbar Vertebrae	ТМА
	Lumbosacral Vertebrae Oblique	Waters (Paretoacantial)
	Sacrum AP	
	Sacrum Lat	
		Evaluation Criteria and Radiographic Anatomy
9		Factors affecting the quantity and quality of X-rays
	Interaction of X-rays with matter	
1		
	Scapula AP	Clavicula AP
	Seenula Lateral	Clavicula - AP 30 ° (Axial)
	Scapula Lateral	
	Clavicula AP	Acromioclavicular Joint AP
	Clavicula AP	
	Clavicula AP Clavicula - AP 30 ° (Axial)	Acromioclavicular Joint AP Ant Oblique in Sternoclavicular Joint
	Clavicula AP Clavicula - AP 30 ° (Axial) Acromioclavicular Joint AP	Acromioclavicular Joint AP Ant Oblique in Sternoclavicular Joint Shoulder AP
	Clavicula AP Clavicula - AP 30 ° (Axial) Acromioclavicular Joint AP Ant Oblique in Sternoclavicular Joint	Acromioclavicular Joint AP Ant Oblique in Sternoclavicular Joint Shoulder AP Shoulder AP Apical Oblique Axial
	Clavicula AP Clavicula - AP 30 ° (Axial) Acromioclavicular Joint AP Ant Oblique in Sternoclavicular Joint Shoulder AP	Acromioclavicular Joint AP Ant Oblique in Sternoclavicular Joint Shoulder AP Shoulder AP Apical Oblique Axial Shoulder Supraspinatus Outlet
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	Clavicula AP Clavicula - AP 30 ° (Axial) Acromioclavicular Joint AP Ant Oblique in Sternoclavicular Joint Shoulder AP Shoulder AP Apical Oblique Axial Shoulder Supraspinatus Outlet	Acromioclavicular Joint AP Ant Oblique in Sternoclavicular Joint Shoulder AP Shoulder AP Apical Oblique Axial Shoulder Supraspinatus Outlet For Shoulder Scapular Y Lateral Radiography; • Patient Preparation
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9	Lumbosacral Vertebras AP Lumbar Vertebras Lat Lumbosacral Vertebras Lat Oblique Lumbar Vertebrae Lumbosacral Vertebrae Oblique Sacrum AP Sacrum Lat Coccyx AP Coccyx Lat X-Ray Physics Course: Interaction of X-rays with matter Medical Imaging Course: Scapula AP	Mandible P-A Mandible Lat Oblique Mandible TMA Waters (Paretoacantial) For Caldwell Radiography; • Patient Preparation • Landmark Points • Collimation and Image Recorder Factors • Patient Positioning • Technical Factor Settings • Evaluation Criteria and Radiographic Anatomy Factors affecting the quantity and quality of X-rays Scapula AP Scapula Lateral Clavicula AP

10	X-Ray Physics Course:	Interaction of X-rays with matter
	Diagnostic methods	
	Image formation	Shoulder Sulcus Intertubercularis Tangential
	Radiological image formation	Shoulder Posterior Oblique (Cavitas glenoidalis)
	Computerized radiography (CR)	Shoulder Inferosuperior Axial Projection
		Shoulder AP Abduction
	Medical Imaging Course:	Humerus Transthoracic Lateral
	Shoulder Sulcus Intertubercularis Tangential	Humerus AP
	Shoulder Posterior Oblique (Cavitas	Humeral Lateromedial
	glenoidalis)	Humeral Mediolateral (Rotational)
	Shoulder Inferosuperior Axial Projection	Elbow AP
	Shoulder AP Abduction	Elbow Lateral
	Humerus Transthoracic Lateral	Coyle Method
	Humerus AP	Elbow Acute Flexion AP Projection
	Humeral Lateromedial	Patient Preparation
	Humeral Mediolateral (Rotational)	Landmark Points
	Elbow AP	
		Collimation and Image Recorder Factors
	Elbow Lateral	Patient Positioning Tackning
	Coyle Method	Technical Factor Settings
	Elbow Acute Flexion AP Projection	Evaluation Criteria and Radiographic Anatomy
11	X-Ray Physics Course:	Image formation
	Radiological image formation	
	Digital radiography (DR)	Forearm AP
		Forearm Lateral
	Medical Imaging Course:	Wrist PA
	Forearm AP	Lateral Wrist
	Forearm Lateral	Wrist Lateral Flexion / Extension
	Wrist PA	Wrist Oblique
	Lateral Wrist	Wrist Radiocarpal Joint
	Wrist Lateral Flexion / Extension	Wrist Dorsal Angled
	Wrist Oblique	Ulnar Wrist on Deviation
	Wrist Radiocarpal Joint	Wrist Radial Deviation
	Wrist Dorsal Angled	Wrist PA Axial Scaphoid
	Ulnar Wrist on Deviation	Wristband AP
	Wrist Radial Deviation	Carpal Tunnel Radiogram
	Wrist PA Axial Scaphoid	Hand PA
	Wristband AP	Hand Lateral
	Carpal Tunnel Radiogram	Hand Oblique
	ELPA	Phalanx for AP Radiography;
	Hand Lateral	Patient Preparation
	Hand Oblique	Landmark Points
	Phalanx AP	Collimation and Image Recorder Factors
		Patient Positioning
		Technical Factor Settings
		Evaluation Criteria and Radiographic Anatomy

12 X-Ray Physics Course: Distinguishable structures by radiographic Radiographic quality Radiological image formation Computerized radiography (CR) Digital radiography (CR) Digital radiography (CR) Medical Imaging Course: Petvis AP Asial "Outlet" Petvis AP Asial "Outlet" Petvis SD Dique (Judet) Petvis Didique (Judet) Hip Joint Lateral Axiolateral Projection Hip AP Oblique (Frog Leg) Projection Andren-von Rosen Radiography SU AP SU			
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		extbooks, References and/or Other laterials:							Main resource: Aiding resources: -Basic Radiology Technique, Prof. Dr. Tamer KAYA -Introduction to radiology, Prof. Dr. Ercan TUNCEL -Course notes of medical imagining 1 Prof. Dr. Müfit PARLAK, Academician Sefa Işıklar							
23	Assesm	nent														
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