

Study program: Integrated academic studies in Medicine			
Type and level of the study program: integrated academic studies			
Course title: General radiology (M3-GRAD)			
Teacher: Kozić B. Duško, Koprivšek M. Katarina, Lovrenski D. Jovan, Lučić A. Miloš, Nikolić R. Olivera, Prvulović Bunović M. Nataša, Stojanović S. Sanja, Til E. Viktor			
Course status: compulsory			
ECTS Credits: 4			
Condition: -			
Course aim Students are acquainted with radiology physics and radiographic anatomy. In practical classes students are instructed of diagnostic imaging modalities, radiography, ultrasound, computerized tomography and magnetic resonance imaging, as well as angiographic procedures.			
Expected outcome of the course: Student will be introduced to the spectrum of imaging methods, their basic principles and utilization. Particular attention is paid to accurate indications and becoming accustomed with the diagnostic options of particular categories of radiological examination. Student will accomplish necessary skills to perform X-ray, ultrasonography examination, to analyze radiography images, computed tomography and MR images and to demonstrate particular techniques of interventional radiology. Detailed knowledge of the anatomical details in each diagnostic modality will be required.			
Course description <i>Theoretical education</i> <ul style="list-style-type: none"> - Basics of medical application of ionizing radiation; physics of imaging methods (X-ray, ultrasound, computed tomography, magnetic resonance imaging); interventional radiology; - Application and indications for radiological examinations (X-ray, computed tomography, ultrasound, magnetic resonance imaging); - Basic principles and indications for invasive diagnostic and intervention-radiology methods; <i>Practical education: exercises, other forms of education, research related activities</i> <ul style="list-style-type: none"> - Demonstration of radiology-imaging equipment and instruments and their operations; - Analysis of radiology images and scans (X-ray, CT, MR); - Practical work with ultrasound; image analysis; - Practical work with magnetic resonance; image analysis; - Observing particular techniques in interventional radiology. - Detailed identification of the anatomical structures on each diagnostic modality 			
Literature <i>Compulsory</i> <ol style="list-style-type: none"> 1. Gunderman RB. Essential Radiology: Clinical Presentation, Pathophysiology, Imaging. Thieme, 2014. 2. Herring W. Learning Radiology: Recognizing the Basics, 3e. Elsevier Science, 2015. 3. Wicke L. Atlas of Radiologic Anatomy. Saunders, 2004. 			
Number of active classes			Other:
Lectures: 15	Practice: 30	Other types of teaching:	
Research related activities:			
Teaching methods Lectures, practical work			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	5	Written	60
Practices	5	Oral	
Colloquium	30		
Essay			