

Study program: Integrated academic studies in Medicine			
Type and level of the study program: integrated academic studies			
Course title: Clinical radiology (M4-CRAD)			
Teacher: Mira L. Govorčin, Dušan M. Hadnadev, Viktor E. Till, Sanja S. Stojanović, Miloš A. Lučić, Duško B. Kozić, Robert R. Semnic, Katarina M. Koprivšek, Viktorija A. Vučaj-Ćirilović, Dragana D. Đilas, Dragana D. Bogdanović-Stojanović, Olivera R. Nikolić, Jovan D. Lovrenski, Dijana D. Nićiforović			
Course status: compulsory			
ECTS Credits: 4			
Condition: -			
Course aim Students are acquainted with radiologic appearance of hereditary, vascular, inflammatory, oncologic diseases of the thorax, abdomen, pelvis, osteomuscular, central nervous system and neck. In practical classes students are instructed in X-Ray, ultrasound, computerized tomography and magnetic resonance imaging interpretation. Teaching activities in Radiology are specific due to education in conventional radiology combined with novel diagnostic procedures.			
Expected outcome of the course: Student will be able to establish the diagnosis based on obtained diagnostic data and understand radiological findings. 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, ultrasonographic examination, to analyze radiography images, computed tomography and magnetic resonance images and to demonstrate particular techniques of interventional radiology.			
Course description <i>Theoretical education</i> <ul style="list-style-type: none"> - Radiological appearance of “head to toe” pathological conditions (malformations, variations, trauma, inflammatory diseases, primary benign and malignant tumours, secondary tumours); - Radiological characteristics of common disorders of respiratory-, digestive- and urinary system, acute abdomen, reproductive system (breast, female pelvis and male reproductive organs: prostate and scrotum); musculoskeletal and nervous system, acute abdomen in adult patients; - Radiological characteristics of common disorders of circulation-, respiratory-, nervous-, musculoskeletal- and urinary system and acute abdomen in children. <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, computerized tomography, magnetic resonance imaging); - Practical work with ultrasound; image analysis; - Practical work with magnetic resonance; image analysis; - Observing particular techniques in interventional radiology. 			
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. 			
Number of active classes			Other:
Lectures: 30	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			