


<b>University of Niš</b> <b>Faculty of Medicine</b>	<b>Study program:</b> <b>INTEGRATED ACADEMIC STUDIES OF MEDICINE</b> <i>ACCREDITATION 2018</i>	
<b>Course: Radiology</b>		
<b>Course head:</b> prof. dr Dragan Stojanov		
<b>Course status:</b>	Required	
<b>Semester:</b> VII	<b>Study year:</b> IV	
<b>ECTS:</b> 4	<b>Course code:</b> M-IV-24	
<b>Course purpose:</b>		
Students should gain knowledge about all diagnostic imaging modalities (x-ray diagnosis, echotomography, computerized tomography, magnetic resonance imaging, invasive diagnostic methods). Principles of minimal invasive therapy – interventional radiology methods.		
<b>Course outcome:</b> (knowledge, skills, attitudes)		
Upon completion of the course, students will be able to select properly most appropriate radiological methods for particular clinical situations and to recognize the principal signs of most common diseases in x-ray images, echotomograms, CT and MRI scans, and appropriately inform the patients about interventional radiology methods.		
<b>Nr. of classes of active teaching: 60</b>		
<b>Lectures: 30</b>	<b>Practice: 30</b>	
<b>Course content</b>		
<u>Theoretical teaching</u>		
Basic elements of physics of examination methods (x-ray, ultrasound, CT, MRI), use and indications for x-ray examination methods, computerized x-ray, radiology networks and exchange of information, basic use of echotomography, principles of use and indications for CT, use and indications for MRI, basics of invasive diagnosis (arteriography, percutaneous examination methods), interventional radiology methods (angioplasty, stents, percutaneous drainage, intraarterial injections, endovascular treatment of intracranial aneurisms).		
<u>Practical teaching</u>		
Observation of x-ray and CT equipment and attendance of examinations from the protected chambers, analysis of x-rays and CT scans, practical work in sonography and image analysis, attendance of MRI and image analysis, demonstration of particular interventional radiology techniques.		
<b>3. Seminars</b>		
	Seminar topics are defined at the beginning of classes and refer to the content of practical instruction.	
<b>Recommended literature:</b>		
<ol style="list-style-type: none"> <li>1. Lazić J. RADIOLOGIJA, Medicinska knjiga 1997</li> <li>2. Petar Bošnjaković, Dragan Stojanov, Zoran Radovanović, Slađana Petrović. Praktikum kliničke radiologije. Treće izmenjeno i dopunjeno izdanje. DATA Status, Beograd, 2016.</li> </ol>		
<b>Teaching methods:</b>		
<ul style="list-style-type: none"> <li>▪ Theoretical teaching: lectures, slide and video-clip aided;</li> <li>▪ Practical instruction: analysis of x-rays and images obtained at echotomography, CT and MRI; attendance at ultrasound and MRI examinations, real time and video demonstrations of interventional radiology methods;</li> <li>▪ Seminars;</li> <li>▪ Knowledge tests;</li> <li>▪ Consultations: regularly during the school year;</li> <li>▪ Pre-exam practice: for each exam term and for all groups of students.</li> </ul>		
<b>Required previously passed exams:</b>		
Internal propedeutics		
<b>Grade (max. 100 points)</b>		

**Pre-exam obligations**

Pre-exam obligations (Activity during classes, Seminars, Colloquiumi)

Work during practice classes

Practical exam: recognition of disease signs in x-rays, US, CT, and MRI images

Oral exam: 5 questions in various areas

- Attendance and activity at lectures: 0 – 5 points
- Activity at practice classes: 0 – 5 points
- Seminar papers: 0 – 10 points
- Tests: 0 – 20 points

**Final exam**

- Practical exam: 0 – 30 points
- Oral exam: 0 – 30 points