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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  |  |
| **GENERAL INFORMATION** |
| Study program  | **INTEGRATED ACADEMIC STUDIES OF MEDICINE** |
| Study Module (if applicable) |  |
| Course title | Radiology |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [x]  Autumn [ ] Spring |
| Year of study  | IV |
| Number of ECTS allocated | 4 |
| Name of lecturer/lecturers | Prof. Dr Dragan StojanovProf. Dr Petar BošnjakovićProf. Dr Sladjana PetrovićProf. Dr Zoran Radovanović |
| Teaching mode |  [x] Lectures [x] Group tutorials [x]  Individual tutorials [ ] Laboratory work [ ]  Project work [ ]  Seminar [ ] Distance learning [ ]  Blended learning [ ]  Other |
| **PURPOSE AND OVERVIEW (max. 5 sentences)** |
| Introducing the students with all diagnostic imaging modes which are applied in modern medicine (radiological diagnostics, echo tomography, computerized tomography, magnetic resonance, interventional radiology.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 MR images and to demonstrate particular techniques of interventional radiology. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| **Theoretical classes:*** 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; • Radiological anatomy and symptomatology of pathological conditions (malformations, variations, trauma, inflammatory diseases, primary benign and malignant tumours, secondary tumours);
* Radiological symptomatology 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 symptomatology of common disorders of circulation-, respiratory-, nervous-, musculoskeletal- and urinary system and acute abdomen in children.

**Practical classes:** * 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.
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| **LANGUAGE OF INSTRUCTION** |
| [x] Serbian (complete course) [x]  English (complete course) [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_\_ (complete course)[ ] Serbian with English mentoring [ ] Serbian with other mentoring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **ASSESSMENT METHODS AND CRITERIA** |
| **Pre exam duties** | **Points** | **Final exam** | **points** |
| **Activity during lectures** |  | **Written examination** |  |
| **Practical teaching** |  | **Oral examination** |  |
| **Teaching colloquia** |  | **OVERALL SUM** | **100** |
| **\*Final examination mark is formed in accordance with the Institutional documents** |