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|  **UNIVERSITY OF NIŠ** |
| **Course Unit Descriptor** | **Faculty**  |  |
| **GENERAL INFORMATION** |
| Study program  | **INTEGRATED ACADEMIC STUDIES OF DENTISTRY** |
| Study Module (if applicable) |  |
| Course title | Radiology |
| Level of study | [x] Bachelor [ ]  Master’s [ ]  Doctoral |
| Type of course | [x]  Obligatory [ ]  Elective |
| Semester  |  [ ]  Autumn [x] Spring |
| Year of study  | III |
| Number of ECTS allocated | 5 |
| 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)** |
| To introduce students to the diagnostic imaging methods of contemporary dento-maxillo-facial radiology: radiography, digital computerized radiography, echo tomography, computerized tomography, magnetic resonance, invasive examination methods as well as to basic application of these methods in examination of other organs and systems.Upon completing the course students mastered application principles, indications for application and algorithms of applications of diagnostic imaging methods and recognition of radiological signs of the most common diseases of teeth, jaws, paranasal cavities, bones of the head, salivary glands and temporomandibular joints. |
| **SYLLABUS (brief outline and summary of topics, max. 10 sentences)** |
| Theoretical teaching* Fundamentals of medical application of ionizing radiation and the physics of image methods (X-ray, ultrasound, computerized tomography, magnetic resonance imaging), and intervention radiology
* Principles of radiological examination (intraoral, extraoral, standard x-ray methods and special techniques, endoradiographyc methods),
* Implementation and indications for X-ray examination methods, computed tomography, ultrasound, magnetic resonance imaging,
* Basic principles and indications for intraoral, standard extraoral radiographical methods, special techniques of radiography and interventional radiology,
* Most common radiological symptoms of respiratory changes, digestive, urinary systems, acute abdomen, reproductive system (breast, female pelvis and male reproductive organs: prostate and scrotum), musculoskeletal and nervous system, acute abdomen in adult patients and children,
* Radiological anatomy and symptoms in dento-maxillofacial region, dental anomalies,
* Congenital jaw anomalies, teeth and jaw diseases, x-ray diagnosis of facial bones and teeth fractures, radiological diagnosis of expansive jaw process, radiology of paranasal cavities, temporomandibular joints, salivary glands, radiotherapy of the maxillofacial region.

Practical teaching* Demonstration of X-ray appearance of standard apparatus and X-ray device for radiography of dental and maxillofacial region with insight into their work and monitoring the protected area
* Radiography and images obtained with computed tomography, practical work on ultrasound and image analysis, work on magnetic resonance analysis of the obtained scans,
* Observing certain interventional radiology techniques
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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** |