



Study program: Integrated Academic Studies in Dental Medicine		
Course title: Dental Radiology		
Teachers: Branislav V. Bajkin, Bojana R. Milekić, Bojan B. Petrović, Sanja B. Vujkov, Ivana Ž. Gušić, Milica S. Jeremić-Knežević, Bojana D. Ramić, Karolina I Vukoje, Ivana R Kantardžić		
Course status: compulsory		
ECTS Credits: 2		
Condition: General Radiology		
Course aim Acquiring the knowledge for selcting and analysis of radiological images which is necessary for everyday dental procedures.		
Expected outcome of the course: <i>Knowledge</i> - Basic knowledge of radiological dental equipment. Mastering the knowledge in radiological methods in dental practice and indications for radiological diagnostics. Knowledge on normal X-ray anatomy. Recognizing the pathological changes on teeth, maxilla, mandible and temporomandibular joints. Choosing the method of radiological procedure according to the algorithm which is related to clinical picture of the patient. Learning about harmful effects and protection from ionizing radiation. The use of radiology in implantology. The use of radiology in clinical treatment of the patient. Allowed doses in radiological procedure. <i>Skills</i> - Selecting the most appropriate radiological methods for analysis of pathological changes. Knowledge of algorithms in dental radiological methods Analysis and recognition of normal and pathological processes on the analogue and digital display associating it with the clinical status of the patient. Recognizing pathological changes on the X-ray image and their use in clinical work. Protection of patients and medical staff from unnecessary X-ray radiation.		
Course description <i>Theoretical education</i> <ol style="list-style-type: none"> 1. Radiographic techniques in dentistry, radiation dosages, protection, analogue and digital techniques 2. Intraoral imaging techniques 3. Extraoral imaging technique 4. Normal radiological anatomy 5. Developmental anomalies of teeth 6. Caries and caries complication 7. Periodontal diseases 8. Dental and jaw trauma 9. Inflammatory diseases of upper and lower jaw 10. Tumors of upper and lower jaw 11. CT and MRI of upper and lower jaw 12. Paranasal cavities 13. Radiology of the temporomandibular joint 14. Radiology of the salivary glands 15. Ultrasound of soft tissues of the head and neck <i>Practical education</i> <ol style="list-style-type: none"> 1. Digital methods; 2. Pathological changes in teeth and periodontium 3. Pathology of the jaw, Paranasal cavities, Temporomandibular joint 4. Panoramic radiographs analysis, 5. Intraoral image analysis 6. CT and MRI analysis 7. Head radiology algorithms 		
Literature <i>Compulsory</i> <ol style="list-style-type: none"> 1. Pasler FA. Radiology: Color Atlas of Dental Medicine. New York: Georg Thieme Verlag Stuttgart; 2006. 2. Fuhrmann A. Dental radiology. Stuttgart: Georg Thieme Verlag; 2015 		
Number of active classes	Theoretical: 15	Practice: 15

Teaching methods			
Lectures; practices			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	10	Written	20
Practices	30	Oral	40
Colloquium		
Essay			