

Study program: DENTISTRY	
Type and level of studies: Integrated academic studies, Level 1/2	
Course unit: Clinical endodontics and restoration of endodontically treated teeth	
Teacher in charge: Associate Professor Milica Popovic, DDM, MSc, PhD	
Language of instruction: ENGLISH	
ECTS: 4	
Prerequisites: enrolled in the tenth semester	
Semester: WINTER SEMESTER (10th semester)	
Course unit objective: The course main objective is providing students with knowledge and skills of the treatment of endodontic and periapical tissues as well as of the restoration of endodontically treated teeth.	
Learning outcomes of Course unit:	
<p>The main outcome of this course is to provide the students with knowledge and experiences associated with endodontic therapy and restoration of endodontically treated teeth, which includes:</p> <ul style="list-style-type: none"> • Patient management in the clinical environment • Obtainment of patient's medical and dental histories • Utilization of endodontic diagnostic tests • Interpretation of clinical and radiographic exams • Making proper pulpal and periapical diagnosis • Elaboration and discussion on treatment plans • Setting the indications and contraindications for root canal therapy • Endodontic treatment of uncomplicated cases • Setting the indications and contraindications for the restoration of endodontically treated teeth • Selection of the appropriate methods and materials for the restoration of endodontically treated teeth • Outcome assessments on endodontically treated teeth 	
Course unit contents	
<p><i>Theoretical classes</i></p> <p><i>Pulpal and periapical lesions, classification, clinical picture. Diagnosis and classification of pulpal and periapical lesions. Introduction to endodontic therapy. Urgent endodontic treatment. Endodontic retreatment – indications and treatment methods. Dynamics and flow of reparation in periapical lesions after endodontic treatment. Outcome assessment of endodontic therapy. Materials for direct and indirect pulp capping. Specifics of canal morphology in tooth root apices. Biomechanical principles in restoration of endodontically treated teeth. Retention of tooth restorations and the selection of appropriate methods in cases of extensive tooth destructions. Methods for the restoration of endodontically treated teeth. Condition optimization for tooth restoration. Materials and techniques for successful restoration of endodontically treated teeth.</i></p>	
<p><i>Practical classes</i></p> <p><i>Patient management in the clinical environment. Principles of obtaining patient's medical and dental histories. Endodontic diagnosis and interpretation of clinical and radiographic exams. Treatment plan. Trepanation, access cavity formation, initial patency exploration, odontometry. Root canal instrumentation techniques. Root canal irrigation and medication. Principles and techniques of root canal obturation. Infected root canal therapy. Treatment of acute conditions in periradicular lesions. Chronic apical periodontitis therapy. Assessment of tooth trauma. Selection of appropriate materials and methods for filling retention in cases of extensive tooth destructions. Materials and techniques for successful restoration of endodontically treated teeth. Listing and discussing potential advantage and disadvantage of different treatment modalities for non-healing endodontically treated teeth.</i></p>	
Literature	
<ul style="list-style-type: none"> • Bergenholtz G, Hørsted-Bindslev P, Reit C. Textbook of Endodontology, 2nd ed., Wiley-Blackwell, 2010. • Tronstad L. Clinical endodontics: a textbook, 3rd edition, Thieme; TPS, 2009. • Mjor IA. Pulp-dentin biology in restorative dentistry, 1st ed., Quintessence Pub Co, 2002. 	
Number of active teaching hours	Other classes

Lectures: 15	Practice: 45	Other forms of classes:	Independent work:
Teaching methods: Lectures, practice in a clinic			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	15	oral examination	55
practical classes/tests		written examination	30
Seminars/homework		
Project			
Other			

Grading system		
Grade	No. of points	Description
10	95-100	Excellent
9	85 – 94	Exceptionally good
8	75 – 84	Very good
7	65 – 74	Good
6	55 – 64	Passing
5	< 55	Failing

(Table 5.2) Course unit description