

## REQUIREMENTS

<b>Semmelweis University Faculty of Dentistry</b> Department of Conservative Dentistry
<b>Name of the course:</b> CONSERVATIVE DENTISTRY AND ENDODONTICS IV. <b>Credit value:</b> 3 <b>Lessons (in hours):</b> 56 <b>lectures:</b> 0 <b>practices:</b> 4 <b>seminars:-</b> <b>Type of the course:</b> <u>compulsory</u> obligatory    elective    elective <b>Frequency of announcement (per semester or year):</b> per year (9th semester)
<b>Academic year:</b> 2020-2021
<b>Subject code<sup>1</sup>:</b>
<b>Lecturer of the course:</b> Zsuzsanna Tóth DMD, PhD  <b>Contact:</b> Department of Conservative Dentistry, 1088 Budapest, Szentkirályi u. 47. Phone: +361-317-1598  <b>Function:</b> clinical director, associate professor
<b>The goals of the course in point of view of the education:</b> Endodontic semester, in addition to patient examination, taking medical and dental history, stomatooncological screening, establishing the diagnosis, preparing a treatment plan, emphatically the root canal treatment of single and multi-rooted teeth and the revision of root fillings take place with the routine application of isolation procedures.
<b>Location of the course (address of lecture hall, seminar room etc.):</b> Dental Educational Center, Department of Conservative Dentistry, 1088 Budapest, Szentkirályi u. 47. First floor operating rooms (111, 113, 114).
<b>Competences acquired by completion of the course:</b> By the end of the endodontic semester the students gain more experience in performing root canal treatments and more independent work will develop.
<b>Pre-study requirements and prerequisites of course registration and completion:</b> <ul style="list-style-type: none"><li>- Prosthodontics III.</li><li>- Conservative Dentistry and Endodontics III.</li></ul>
<b>Number of students required for announcement of course (min., max.):</b> -
<b>Method of course registration:</b> Neptun system
<b>Detailed course/lecture description<sup>2</sup>:</b> (to facilitate credit recognition in other institutions) <b>Detailed weekly curriculum:</b> The subject is taught with four practical hours per week, there is no lecture. During the exercises the students deal with root canal treatments and revisions within the framework of clinical care under the supervision of practice leader.
<b>Courses (obligatory and elective) which in part or entirely overlap the topics of above course:</b> Upon successful completion of the subject student patient care solves complex and more complex tasks more confidently and independently within the framework of both the Conservative Dentistry and

Endodontics and the Clinical Dentistry subject. The acquired knowledge will gradually expand.

**Special academic work required for completion of the course<sup>3</sup>:-**

**Attendance on practices and lectures, replacement in case of missed sessions:**

Participation at practice is obligatory, the absenteeism at any reason may not exceed 25% of the practices. More than 10 minutes delay from practice is considered absence. Three delays (till 10 minutes) are counted as one absence. We cannot provide an opportunity to replace a practice. Absence does not need to be justified.

**Consequences of absence from sessions and exams:**

Work done at practice is controlled and valued by practice teacher. Students during the semester write at least five „small tests” to give proof of their theoretical knowledge. There is no retake for missed tests. Three delays (upto 10 minutes) are counted as one absence. More than 10 minutes delay from one practice is also an absence. A maximum of 3 absences are allowed. We cannot ensure a date to remedy absence. In these cases signature can not be given.

**Method of checking acquired knowledge during the study period<sup>4</sup>:**

Students must arrive prepared for the practice, which is regularly checked and evaluated orally and/or in writing by the supervisor. Students during the semester write at least five „small tests” to give proof of their theoretical knowledge. There is no possibility to retake the missed tests or to correct a test. The work done on the practices is monitored and evaluated by the practice leaders at all times.

**Requirements of an accepted semester (*signature of the lecturer*):**

A minimum of 75% attendance is required at the practices, absences at any way may not exceed 25% of the practices.

The condition for signing the semester is the appropriate level of continuous and even theoretical preparation and the appropriate level of practical performance. The grades given for theory and practice must separately reach an average of 2.0.

Until the 13th week a photographic case report should be submitted to the practice leader.

**Type of the exam: Semifinal exam (Colloquium)**

**Requirements of the exam<sup>5</sup>:**

A topic with two questions should be drawn on the exam and a documented endodontic case should also be presented. The examinee will also receive an intraoral X-ray, from which he/she must determine what teeth are visible on it, what diagnosis can be set up and what treatment is needed. Receiving an unsatisfactory (1) on any part of the examination means failure. Topic lists are found on our homepage.

**Endodontic colloquium topics:**

1a Medical and dental history, examination and treatment planning in endodontics

1b Goal, indication, contraindication and the steps of the root canal treatment

2a Making diagnosis in endodontics

2b Access cavity preparation and length determination

3a. Preparatory steps before root canal treatment

3b Root canal preparing techniques by hand instruments

4a Anatomy and histology of the pulp and periapical tissues

4b Root canal preparing techniques by mechanical instruments

5a Causes and characteristics of pulpitis

5b Objective of the obturation: apical, coronal and lateral seal

6a Pathology, symptoms and therapy of pulpal diseases

6b Materials for root canal obturation

7a Pathology, symptoms, diagnosis and therapy of reversible pulpitis

7b Methods (techniques) of root canal obturation and their instrumentation

8a The pathology, symptoms, diagnosis and therapy of irreversible pulpitis  
 8b Restoration of endodontically treated tooth. Requirement, principles and concepts  
 9a Classification of periradicular lesions  
 9b Procedural accidents during access preparation, shaping, cleaning and obturation  
 10a Pathology, symptoms, diagnosis and therapy of acute and chronic apical periodontitis  
 10b Complications by root canal treatment. Vertical (longitudinal) root fracture: causes, diagnosis, treatment and prevention. Evaluation of success and failure in root canal treatment.  
 11a Pathology, symptoms, diagnosis and therapy of condensing osteitis  
 11b Orthograde retreatment. Consideration, case selection and retreatment techniques  
 12a Pathology, symptoms, diagnosis and therapy of acute and chronic apical abscess  
 12b Removal of fractured instruments  
 13a Endodontic radiography. Interpretation, limitation, mistakes and differential diagnosis  
 13b Indication, contraindication of surgical endodontic treatment in case of root canal treated teeth  
 14a Odontogen focal infection  
 14b. Treatment of deep carious lesion, maintenance of the vital pulp  
 15a Microbiology of the infected root canal  
 15b Endodontic emergencies  
 16a Systemic and local medication in endodontic treatment  
 16b Advantages, disadvantages and difficulties by microscopic endodontic treatment  
 17a Instruments, used by root canal treatment and root canal obturation  
 17b Bleaching discoloured teeth. Causes of discoloration, indication and contraindication of bleaching. Bleaching materials and techniques

**Grading of courses<sup>6</sup>:**

A prerequisite for applying for the colloquium is the existence of the semester signature. The grade of the colloquium is five levels.

**Exam registration:**

In Neptun system

**Rules of repeating exams: -**

In Neptun system based on the current university study and exam regulations.

**List of textbooks, lecture notes and recommended textbooks:**

1. Ritter AV, Boushell LW, Walter R: Sturdevant's Art and Science of Operative Dentistry. 7th ed. St. Louis, Mosby, 2018.
2. Torabinejad M, Walton RE, Fouad AF: Endodontics. Principles and Practice. 5th ed. St.Louis, Missouri, Saunders/Elsevier 2014
3. Hargreaves KM, Berman LH: Cohen's Pathways of the Pulp. 11th ed. St. Louis, Missouri, Mosby/Elsevier 2015

**Signature of course lecturer:**

Zsuzsanna Tóth DMD, PhD

**Signature of head of department:**

Zsuzsanna Tóth DMD, PhD

**Date of submission:**

**Opinion of OKB:**

**Notes from the Dean's Office:**

**Signature of Dean:**

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<sup>1</sup> Filled out by the Dean's Office following approval

<sup>2</sup> Detailed and numbered for each week of theoretical and practical lessons one by one, indicating the names of lecturers and instructors

<sup>3</sup> Eg. field practice, medical chart analysis, survey conducting, etc.

<sup>4</sup> Eg. homework, report, midterm exam etc. Topics, dates, method of retake and replacement.

<sup>5</sup> List of topics in case of theoretical exam, thematic and method in case of practical exam.

<sup>6</sup> Method of inclusion of theoretical and practical exams. Method of inclusion of midterm assessments.