

Program of study : Dentistry

Course : Endodontics

Abbreviation : ST1/ZAB21

Schedule : 26 hours of seminars
39 hours of practical training

Course Distribution : 3rd year, 6th semester

Number of credits : 5

Course form : Seminars, practical trainings

Seminars:

Guarantor: Doc. MUDr. Květoslava Nováková, CSc.
Main lecturer: MDDr. Pavel Holík, Ph.D.
Lecturers: MDDr. Alexandr Jusku
MDDr. Magdalena Ďurinová
Stomatolog Yuliya Morozova, Ph.D.
MDDr. Barbora Novotná
MDDr. Lucia Somolová

Seminars: Continuous
Tuesday 13.00–14.30 seminar room UZQ203100

	Date	Topic	Hours	Lecturer
1	14.2.2023	Contents of the field. Topography of the pulp chamber, histology and physiology of the dental pulp, dentin, periodontium, cementum. Pulp-periodontal organ. Teeth anatomy and morphology.	2	Nováková/Novotná
2	21.2.2023	Equipment of endodontic workplace, tools and instruments for root canal treatment.	2	Nováková/Jusku
3	28.2.2023	Techniques and methods of root canal shaping.	2	Nováková/Ďurinová
4	7.3.2023	Rotary endodontics.	2	Nováková/Somolová
5	14.3.2023	Disinfectants in endodontics. Intracanal medicaments. Crown temporary reconstructions.	2	Nováková/Morozova
6	21.3.2023	Root canal obturation.	2	Nováková/Morozova

7	28.3.2023	Indications and contraindications of endodontic treatment. Complications of endodontic treatment and their prevention	2	Nováková/Somolová
8	4.4.2023	Caries near the pulp, caries penetrating into the pulp (pathomorphology, diagnosis, treatment).	2	Nováková/Morozova
9	11.4.2023	Reversible and irreversible pulp diseases. Differential diagnosis.	2	Nováková/Novotná
10	18.4.2023	Inflammation of the apical periodontium.	2	Nováková/Ďurinová
11	25.4.2023	Acute conditions in endodontics. Examination algorithm, treatment options.	2	Nováková/Morozova
12	2.5.2023	Postendodontic restoration, root canal retreatment. Surgical procedures additional to endodontic treatment. Criteria for success of endodontic therapy.	2	Nováková/Morozova
13	9.5.2023	Principles of endodontic treatment of temporary dentition and permanent immature teeth. Maturogenesis and apexification. Indications for surgical-conservative treatment. Indications for extraction of permanent immature teeth.	2	Nováková/Somolová

Praktical trainings:

Guarantor: Doc. MUDr. Květoslava Nováková, CSc.

Main lecturer: MDDr. Pavel Holík, Ph.D.

Study: Continunous Wednesday 13.00–15.15

	Date	Topic	Hours
1	15.2.2023	Pulp-dentin organ and periodontium. Defensive mechanisms of the dental pulp against dental caries. Examination in endodontics, clinical tests, X-ray in endodontics.	3
2	22.2.2023	Topographic ratios of pulp chamber and root canals.	3
3	1.3.2023	Equipment and instruments in endodontics.	3
4	8.3.2023	Shaping of the root canals, the basic principles, techniques and methods.	3
5	15.3.2023	Rotary endodontics.	3

6	22.3.2023	Disinfectants in endodontics: irrigation, Intracanal medicaments. Crown temporary reconstructions.	3
7	29.3.2023	Root canal obturation.	3
8	5.4.2023	Indications and contraindications of endodontic treatment. Complications of endodontic treatment and their prevention.	3
9	12.4.2023	Caries near the pulp, caries penetrating into the pulp. Reversible and irreversible pulp diseases.	3
10	19.4.2023	Inflammation of the apical periodontium.	3
11	26.4.2023	Techniques of local anaesthesia.	3
12	3.5.2023	Acute treatment in endodontics.	3
13	10.5.2023	Postendodontic restoration, root canal retreatment. Surgical procedures additional to endodontic treatment. Credit test.	3

Completed by: Credit, final exam

Conditions for participation on practical trainings:

- 1) The student is required to come at least 10 minutes before the beginning of the practical exercise in order to prepare for practical exercises.
- 2) The student is required to attend practical exercises in clean, white working clothes and shoes. If she/he does not do so, she/he will be excluded from practicing with the necessity of substitution.
- 3) The use of mobile phone and other similar devices is prohibited in practical exercises. If a student breaks the rule, she/he will be excluded from practicing with the necessity of substitution.
- 4) If a student violates educational or ethical rules, he/she will be excluded from the practical exercise with the necessity of substitutions.
- 5) The student can miss only 1/3 of the compulsory education - with the necessity of apology to the teacher and substitution of the missed practical/seminar.
- 10% of the allowed absence without apology and substitution applies only to subjects where the practical training contains 10 or more practical exercises / seminars. However, it is recommended to apologize to the teacher in person / by email.
- 6) If the student does not have sufficient knowledge

in the practical exercise, he/she will be excluded from the practical exercise with the necessity of substitution

Requirements (for credit):

90% participation in practical exercises
Continuous checking of knowledge (oral exam, tests)
Check up of practical limits

Credit test – student must pass min. 70%

Practical part of the credit: practical task + diagnosis and treatment plan of a clinical case (this will take place after the end of the practical trainings – during Microscopic endodontics)

According to Dean of Faculty of Medicine, LF – B-18/14 to study and test order in Olomouc in the semester the student can substitute up to 1/3 compulsory education provided good excuses for missed hours

Literature:

Kenneth Hargreaves, Louis Berman. Cohen's Pathways of the Pulp Expert Consult. 11th Edition. Mosby, 2015

Mahmoud Torabinejad, Ashraf Fouad, Richard Walton. Endodontics. Principles and Practice. 5th Edition. Saunders, 2014

Models and instruments: Endoset (hand and rotary endodontic instruments)

Plastic tooth models with root canals