



**LECTURE PROGRAMME  
IV course, VII semester**

| <b>№</b> | <b>TOPIC</b>   | <b>HOURS</b> |
|----------|--|--------------|
| 1.       | <b>Infection control in dental practice</b> – its importance, modes of transmission of infections, ways of spreading the infection. Precautions that can be taken for the protection of the dentists, the patient's and the environment. Ways of controlling the spread of infections. Special features of the infection control in Operative Dentistry and Endodontics.   | <b>1 h.</b>  |
| 2.       | <b>Ergonomics of the workplace.</b> Occupational diseases and their prophylaxis. Teamwork.   | <b>1 h.</b>  |
| 3.       | <b>Dental caries</b> – fundamentals, incidence of caries in adults, etiological factors: dental biofilm with cariogenic bacteria, carbohydrate foods, enamel resistance, saliva, pathogenesis (theories, hypotheses, conceptions). Pathomorphological changes in the hard-dental tissues and pulp during caries progression.   | <b>1 h.</b>  |
| 4.       | <b>The main symptoms of dental caries</b> (increased sensitivity, colour change, loss of integrity of the tooth, loss of function). Caries classification based on the extent of the caries, on its localization and on its progression. Methods for examining clinically visible caries lesions.  | <b>1 h.</b>  |
| 5.       | <b>Dental caries</b> – clinical features, diagnostics, differential diagnosis.   | <b>1 h.</b>  |
| 6.       | <b>Early caries detection</b> – methods. Non-operative treatment of dental caries (motivational strategies in oral hygiene, changes in the patient's diet, increasing enamel resistance, saliva testing).  | <b>1 h.</b>  |
| 7.       | <b>Non-operative treatment methods</b> – ozone therapy, air abrasion, laser, sealants, chemical-mechanical caries debridement. Minimally invasive preparations (enameloplasty).  | <b>1 h.</b>  |
| 8.       | <b>Pain management in operative dentistry.</b> Pain perception and reaction – reflex arc, gate control theory of Melzack and Wall.<br>Management of the pain through:<br>1/ The central nervous system (psychoprophylaxis, hypnosis, audioanalgesia, acupuncture, premedication and general anaesthesia).<br>2/ Local anaesthesia (infiltrative anaesthesia, nerve block anaesthesia, intraligamentary anaesthesia, endosseous anaesthesia).<br>3/ Local block of the pain impulse (atraumatic work, contact anaesthesia, electroodontanalgesia, TENS-method). | <b>1 h.</b>  |
| 9.       | <b>Dentin caries</b> – Caries media, Caries profunda. Areas of caries progress in the dentin. Medico-biological basis of the treatment of the dentin wound in deep caries lesions – characteristics of the dentin wound, types of dentin located over the pulp, clinical differentiation. Medicaments and materials for the treatment of deep caries lesions – pharmacodynamics of the basic medicaments and materials, explanation of the one-step and two-step treatment of deep caries lesions.   | <b>1 h.</b>  |
| 10.      | <b>Root caries</b> (of the cementum, adult caries). Cementum – structure, function. Risk factors for the development of root caries. Diagnostics, types, and development stages of root caries. Clinical features. Differential diagnosis. Treatment – special features, problems and risks, materials, and medicaments. Prophylaxis.  | <b>1 h.</b>  |

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| 11. | <b>Secondary caries</b> – definition, frequency, localization, clinical features, and diagnostics. Etiology, treatment, and prophylaxis.  | 1 h.         |
| 12. | <b>Clinical features, diagnostics, and treatment of rampant caries.</b> Medical approach when treating rampant caries. Clinical protocol for rampant caries treatment.  | 1 h.         |
| 13. | <b>Amalgam and cast-metal restorations – biomechanical problems.</b> Characteristics of the cavity preparation – determining the borderlines of the cavity, resistance, and retention form, replacing a restoration, preparation forms with tuber defense, secondary retention form (dentin pins, amalgam pins, collars). Choosing the correct type of amalgam – instruments. Connected amalgam restorations. Restoration of occlusion. Restoration of the proximal contacts, connection with the marginal gingiva in class II amalgam restoration. Advantages and disadvantages. | 1 h.         |
| 14. | <b>Composite and glass-ionomer restorations – biomechanical problems.</b> Cavity preparation for composite materials – characteristics of the preparation form – preparation for adhesive bonding. Glass-ionomer restorations – indications, working technique. Adhesion to enamel and dentin. Adhesive systems. Direct and indirect composite restorations. Advantages and disadvantages.  | 1 h.         |
| 15. | <b>Errors and complications in the diagnosis and treatment of dental caries.</b>  | 1 h.         |
|     | <b>TOTAL:</b>   | <b>15 h.</b> |

Изготвил:  
Хабилитираните лица от Катедрата ОЗЕ

Съгласувал:  
(проф. д-р Н. Манчорова, дм,  
Ръководител Катедра ОЗЕ)

Утвърдена на Катедрен съвет № 12/16.07.2020 г.



**LECTURE PROGRAMME**  
**IV course, VIII semester**

| <b>№</b> | <b>TOPIC</b>   | <b>HOURS</b> |
|----------|--|--------------|
| 1.       | <b>Anatomy and physiology of dental pulp tissue</b> – histology, functions, and basic pathological processes in dental pulp.   | <b>1 h.</b>  |
| 2.       | <b>Etiology and pathogenesis of inflammatory and non-inflammatory pulp pathology</b> – mechanisms of pulpal inflammation, histopathology, characteristics of pulpal pain.  | <b>1 h.</b>  |
| 3.       | <b>Symptoms and classifications of pulp pathology</b> – biological, physiological, and histological features of pulpal pain, critical analyses of classifications.   | <b>1 h.</b>  |
| 4.       | <b>Diagnostic procedures of pulp pathology</b> – chief complaints, clinical methods, clinical tests, paraclinical methods, interpretation of diagnostics data.   | <b>1 h.</b>  |
| 5.       | <b>Acute pulpitis</b> – classification, subjective and objective signs and symptoms, diagnosis, differential diagnosis, therapeutic guideline.   | <b>1 h.</b>  |
| 6.       | <b>Chronic pulpitis</b> – classification, subjective and objective signs and symptoms, diagnosis, differential diagnosis, therapeutic guideline.   | <b>1 h.</b>  |
| 7.       | <b>Reversible and irreversible pulpitis</b> – critical analyses of classifications, local and general factors for reversibility of pulpal inflammation, therapeutic guideline.   | <b>1 h.</b>  |
| 8.       | <b>Vital pulp therapy – indirect pulp treatment</b> – indications and contraindications, treatment technique, pharmacological properties of pulp-capping materials, evaluation of treatment outcomes and prognosis.  | <b>1 h.</b>  |
| 9.       | <b>Vital pulp therapy – direct pulp capping</b> – indications and contraindications, treatment technique, pharmacological properties of pulp-capping materials, evaluation of treatment outcomes and prognosis.  | <b>1 h.</b>  |
| 10.      | <b>Vital pulp therapy – partial pulpotomy (pulp amputation)</b> – indications and contraindications, treatment technique, pharmacological properties of pulp-capping materials. Evaluation of treatment outcomes and prognosis.  | <b>1 h.</b>  |
| 11.      | <b>Non-vital pulp therapy – pulpectomy (vital pulp extirpation)</b> . Essence, indications and contraindications, treatment techniques, anesthetic techniques in different teeth groups, complications, and therapeutic decisions.   | <b>1 h.</b>  |
| 12.      | <b>Non-vital pulp therapy – pulpectomy (arsenic devitalization, mortal pulp extirpation)</b> . Essence, indications and contraindications, critical analyses, techniques. Arsenic medicaments – Mechanisms for devitalization, working technique: time for exposure, amount, placement, and removal rules. | <b>1 h.</b>  |
| 13.      | <b>Anatomy and physiology of periodontium</b> – basic structural elements, function, blood supply, innervation, lymphatic drainage. Pulpal-periodontal connections. Classifications. Methods in diagnostics of periodontitis.  | <b>1 h.</b>  |
| 14.      | <b>Acute serous periodontitis</b> – classification, subjective and objective signs and symptoms, diagnosis, differential diagnosis, therapeutic guideline  | <b>1 h.</b>  |

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| <b>15.</b> | <b>Acute purulent periodontitis</b> – classification, subjective and objective signs and symptoms, diagnosis, differential diagnosis, therapeutic guideline | <b>1 h.</b>  |
|            | <b>TOTAL:</b>   | <b>15 h.</b> |

Изготвил:  
Хабилитираните лица от Катедрата ОЗЕ

Съгласувал:  
(проф. д-р Н. Манчорова, дм  
Ръководител Катедра ОЗЕ)

Утвърдена на Катедрен съвет № 2/04.02.2021 г.