

SYLABUS

Subject:	Propedeutics of Dental Medicine 4		
Study programme:	Dental Medicine	Semester:	4. semester
Valuation:	exam	Obligation:	obligatory
Number of hours:	2 h.lecture and 4 h.practice/ week		84 hours

Place: Department of Stomatology and Maxillofacial Surgery
 1 st Department of Stomatology
 Department of Stomatology and Maxillofacial Surgery and Specialized
 Hospital for Head and Neck Diseases, Academy of Košice, n.o

Lectures: Monday 09:15-10:45
 Lecture room PE

<i>Week</i>	<i>Lectures</i>	<i>Practice</i>
1.	<p>Definition and scope of dentoalveolar and maxillofacial surgery. Importance and position within dental and general medicine. Historical development and current trends. Scope of dentoalveolar and maxillofacial surgery. Terminology of surgical procedures.</p> <p>09.02.2026 Doc. MUDr. Peter Kizek, PhD., MPH</p>	<p style="text-align: center;">OBP instruction</p> <p>Theoretical part: Definition and scope of dentoalveolar and maxillofacial surgery; basic concepts. Interconnection with other medical disciplines. Terminology of surgical procedures.</p>
2.	<p>Surgical instrumentation: Importance and classification of oral surgical instruments. Material requirements – stainless steel, sterilization. Principles of handling and maintenance of surgical instruments. Basic surgical tools: scalpels, scissors, forcepses, retractors. Instruments for tissue reflection and manipulation.</p> <p>16.02.2026 MDDr. Marcel Riznič, PhD.</p>	<p>Test: Classification of dental arch defects, indications for prosthetic replacements. Theoretical part: Tooth charting systems and symbols used in dental records. Practical part: Continuation of procedures from the winter semester: RPD- identification of dental defect, preliminary model analysis, diagram of individual structural components of a removable partial denture (RPD), fabrication of an individual impression tray and occlusal rims, significance of determining the maxilla-mandibular (Mx-Mn) relationship, creation of the wax denture base, principles of tooth arrangement in a denture, flasking, wax elimination, preparation of acrylic resin dough, pressing, polymerization, and prosthesis finishing.</p>
3.	<p>Surgical instrumentation: Extraction instruments: extraction forcepses, elevators, general surgical instruments. Sterilization and packaging of instruments. Principles of cleaning, disinfection, and sterilization of instruments. Various methods of sterilization (autoclave, dry heat, chemical sterilization).</p>	<p>Practical part: Continuation of procedures from the winter semester: TD - model analysis, diagram of the denture base design, fabrication of an individual impression tray and occlusal rims, significance of determining the maxilla-mandibular (Mx-Mn) relationship, creation of the denture in wax, principles of tooth arrangement in the prosthesis, flasking, wax elimination, preparation</p>

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	<p>Instrumentation prepared in sterile sets according to the type of procedure.</p> <p>23.02.2026 MDDr. Marcel Riznič, PhD.</p>	<p>of acrylic resin dough, pressing, polymerization, denture finishing, and repairs of removable dentures.</p>
4.	<p>Surgical handwashing and antisepsis: Asepsis, antisepsis, sterilization. Importance of hand hygiene in surgery and invasive procedures. Surgical handwashing, consequences of non-compliance with aseptic protocols - nosocomial infections, sepsis, transmission of pathogens. Procedure of surgical handwashing - standardized protocol, antiseptic agents.</p> <p>02.03.2026 MUDr. Marián Kysel', PhD.</p>	<p><i>Test: Terminology of surgical procedures.</i> Practical part: Identification of surgical instruments – extraction forcepses, elevators, general surgical instruments. Practical training in surgical handwashing and dressing in sterile clothing. Handling of sterile instruments and use of sterile gloves. Introduction to general surgical instruments.</p>
5.	<p>Basic principles of local anesthesia: Mechanism of action of local anesthetics, classification, types of local anesthesia in dentistry. Local anesthetic agents, dosage and safety, complications.</p> <p>09.03.2026 MUDr. Vladimíra Schwartzová, PhD., MPH</p>	<p>Practical test: Identification of surgical instruments. Theoretical part and revision: Morphology of primary and permanent teeth. Development and eruption of primary and permanent dentition. Descriptive terminology of teeth and dental arches. Basic prosthetic reference points and planes. Practical part: Identification of extracted teeth and description of their morphology. Practice of surgical suturing techniques.</p>
6.	<p>Principles of tooth extraction: Pre-extraction examination, principles of extraction, extraction mechanism, instrumentation, complications, post-extraction care.</p> <p>16.03.2026 MDDr. Marcel Riznič, PhD.</p>	<p>Practical test: Identification of all types of instruments used in dentistry. Theoretical part: Local anesthetics used in dentistry. Practical part: Application of local anesthetics on a skull model and practice of injection techniques.</p>
7.	<p>Basic wound care procedures: Definition of a wound, classification, principles of wound treatment, methods of wound closure, complications.</p> <p>23.03.2026 MUDr. Andrej Jenča, PhD., MBA.</p>	<p>Practical wound care procedures Dressing techniques for wound coverage.</p>

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8.	<p>First aid for injuries of tissues in the oromaxillofacial region.</p> <p>30.03.2026 MUDr. Andrej Jenča, PhD., MBA.</p>	<p>Practical test: Surgical instrumentation. <i>Theory:</i> Classification of tissue injuries in the oromaxillofacial region (OFO). <i>Practical training:</i> First aid procedures practice. Practice of surgical suturing techniques.</p>
9.	<p>War and crisis situations – the role of the dentist. The dentist as part of the healthcare system in emergency situations, the dentist in the crisis healthcare system, forensic odontology in crisis situations.</p> <p>06.04.2026 MUDr. Andrej Jenča, PhD., MBA.</p>	<p><i>Theory:</i> Specifics of orofacial injuries in wartime, gunshot, laceration, and combined injuries of the face and oral cavity, fractures of the jaw and teeth, soft tissue injuries. <i>Practical exercises:</i> Procedures in crisis situations.</p>
10.	<p>Equipment and organization of work in a dental office. Regulation on the material and technical equipment of a dental office.</p> <p>13.04.2026 MDDr. Juraj Bánovčín, PhD.</p>	<p style="text-align: center;"><i>Theoretical part:</i> Principles of tooth extraction, selection of appropriate instruments. <i>Practical part:</i> Tooth extraction on phantom models.</p>
11.	<p>Work hygiene in the dental office, conditions for ensuring it. Goals of hygiene standards. Risks associated with insufficient hygiene (infections, cross-contamination). Principles of aseptic and antiseptic work. Hygiene of the work environment. Hygienic requirements for dental office equipment.</p> <p>20.04.2026 MDDr. Juraj Bánovčín, PhD.</p>	<p style="text-align: center;">Test: Partial and complete removable dentures</p> <p><i>Theoretical part:</i> Equipment and organization of work in the dental office Work hygiene in the office, conditions for ensuring hygiene. <i>Practical part:</i> Demonstration of the function and practical training in the use of the amalgamator, autoclave, and ultrasonic cleaner for instruments. Detailed understanding of the function of the dental unit, dental chair, and other devices in the dental office. <i>Revision:</i> Basic principles of cavity preparation for dental caries treatment.</p>
12.	<p>Basic terminology in orthodontics Anomalies of tooth position in the dental arch – basic terminology. Anomalies of the mutual relationship of the maxillary and mandibular dental arches.</p> <p>27.04.2026</p>	<p style="text-align: center;">Final test of Propedeutics ZL4 content</p> <p><i>Theoretical and practical:</i> Anomalies of tooth position in the dental arch - basic terminology, identification of individual anomalies on models and photographs. <i>Revision:</i> Selected questions from the Propedeutics ZL syllabus,</p>

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	MUDr. Adriána Petrášová, PhD.	preparation and filling of Class II Black cavities, practice using various types of matrix systems.
13.	<p>Basics of Orthodontics: Anomalies in the mutual relationship of the maxillary and mandibular dental arches.</p> <p>04.05.2026 MDDr. Juraj Bánovčín, PhD.</p>	<p>Theoretical and practical: Anomalies in the mutual relationship of maxillary and mandibular dental arches – basic terminology, identification of specific anomalies on models and photographs.</p> <p>Revision: Selected questions from the Propedeutics ZL curriculum, preparation and filling of Class III and IV Black cavities, practice using matrix systems for the anterior segment of the dentition.</p>
14.	<p>Ethical principles of summer internship practice.</p> <p>11.05.2026 MDDr. Juraj Bánovčín, PhD.</p> <p>FINAL TEST</p>	<p>Completion of procedures</p> <p>Retake tests Final knowledge assessment, semester evaluation, review of practical procedures</p>

Conditions for Completing the Course : Propedeutics of Dental Medicine 4

- 100% attendance at practical lessons, lectures, and seminars is required.
- **Mandatory preparation:** Before each practical session, students must study the assigned topic in advance.
- **Topic proficiency:** At the beginning of each session, knowledge of the topic is verified either orally or in writing.
- **Make-up for absences:** A student may have a maximum of 3 excused absences, which must be made up during the 14th week of the semester.

Protocols and Seminar Papers

Protocols: The student is required to submit written protocols for all completed practical tasks.

Seminar Papers: If seminar papers are assigned, they must be completed and submitted by the specified deadline.

Final Evaluation

Ongoing assessment of theoretical knowledge and practical skills, with recorded evaluations during practical training.

Completion of a final test with a **minimum required score of 60%**.

Final assessment of theoretical knowledge and skills during **credit week**, with a minimum passing score of 60%.

The final grade for the course may consist of a written test, oral examination, and evaluation of performance throughout the semester

Retake policy: The student is entitled to 2 retake opportunities for each test.

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Credits: Upon successful completion of the course, the student will receive the corresponding number of credits.

Recommended literature:

1. Banerjee, Watson: *Pickard's Manual of Operative Dentistry*, 2011, Oxford University Press
ISBN-13: 978-0199579150
2. Nelson SJ. *Wheeler's Dental Anatomy, Physiology and Occlusion*. 11th ed. St. Louis: Elsevier; 2020.
3. Schwartz RS, Summitt JB, Robbins JW. *Fundamentals of Operative Dentistry: A Contemporary Approach*. 4th ed. Chicago: Quintessence Publishing; 2013.
4. Miloro M, Ghali GE, Larsen PE, Waite PD. *Peterson's Principles of Oral and Maxillofacial Surgery*. 3rd ed. Shelton (CT): PMPH USA; 2011.
5. Hupp JR, Tucker MR, Ellis E. *Contemporary Oral and Maxillofacial Surgery*. 7th ed. St. Louis (MO): Elsevier; 2019.
6. Malik NA. *Textbook of Oral and Maxillofacial Surgery*. 4th ed. New Delhi: Jaypee Brothers Medical Publishers; 2016.
7. Rogers N, Rees J. *Basic Guide to Oral Surgery*. Oxford: Wiley-Blackwell; 2012.
8. McCracken WL, Carr AB, Brown DT. *McCracken's Removable Partial Prosthodontics*. 13th ed. St. Louis (MO): Elsevier; 2015.
9. Shillinburg HT, Sather DA, Wilson EL, Cain JR, Mitchell DL, Blanco LJ, et al. *Fundamentals of Fixed Prosthodontics*. 4th ed. Chicago (IL): Quintessence Publishing; 2012.
10. Jacobson TE, Krol AJ. *Contemporary Removable Partial Denture Design*. 1st ed. Chicago (IL): Quintessence Publishing; 1983.