

## SYLABUS

<b>Subject:</b>	<b><i>Preclinical Dental Medicine 1</i></b>		
<b>Study programme:</b>	Dental Medicine	<b>Semester:</b>	<i>1. semester</i>
<b>Valuation:</b>	<i>credit</i>	<b>Obligation:</b>	obligatory
<b>Number of hours:</b>	<i>2 h. lectures and 3 hours of lessons/ week</i>		<b>70 hours</b>

**Pracovisko:** Klinika stomatológie a maxilofaciálnej chirurgie a Akadémia Košice, Bačíkova.

**Klinika stomatológie a maxilofaciálnej chirurgie, Rastislavova 43.**

**I. Stomatologická klinika, SNP 1 .**

**Monday PB 13:30 – 15.00**

<b><i>Week</i></b>	<b><i>Lectures</i></b>	<b><i>Practicals/Seminars</i></b>
1.	Course introduction and completion criteria. Introduction to dental medicine. Deciduous and permanent dentition – basic terminology and differences. Dental tissues, histology.  <b>MUDr. Jana Kaiferová, PhD. 15.9.2025</b>	Introduction to preclinical classroom and its equipment. Work safety. Drawing of tooth 21. HW: Teeth 11 and 23 drawings.
2.	Anterior teeth – morphology and notation  <b>MUDr. Adriana Petrášová, PhD. 22.9.2025</b>	Wax carving - tooth 13. HW: Labial surfaces of frontal teeth - drawing.
3.	Posterior teeth – morphology and notation.  <b>MUDr. Adriana Petrášová, PhD. 29.9.2025</b>	Anterior teeth – restoring palatal surfaces using LC composite. <i>Revision - lecture 2.</i>
4.	Dental caries - etiology and classification. GV Black and Mount-Hume classification systems of dental cavities.  <b>MDDr. Mária Futejová 6.10.2025</b>	Anterior teeth – restoring labial surfaces using LC composite. HW: occlusal surfaces of posterior teeth - upper jaw - drawing. <i>Revision - lecture 3.</i>
5.	Hand and rotary instruments and equipment for tooth preparation and restoration. Examination instruments. Basic principles of cavity preparation.  <b>MDDr. Mária Futejová 13.10.2025</b>	Modeling of tooth 11/21 using LC composite. HW: occlusal surfaces of posterior teeth - lower jaw - drawing.

## SYLABUS

6.	Restorative materials, overview. Glass ionomer cements.  <b>MUDr. Margaréta Tamášová, PhD. 20.10.2025</b>	Posterior teeth - occlusal modeling on 3D models using LC composite – upper jaw.  <b>Compulsory test 1-5.</b>
7.	Resin composite - properties, composition, handling, indications and contraindications.  <b>MUDr. Margaréta Tamášová, PhD. 27.10.2025</b>	Posterior teeth – occlusal modeling on 3D models using LC composite – lower jaw. <i>Revision - lecture 6.</i>
8.	Adhesive systems.  <b>MDDr. Mária Futejová 3.11. 2025</b>	Introduction to the simulator and rotary instruments. Eggshell preparation. (Preparation of various cavities in bone.) <i>Revision - lecture 7,8.</i>
9.	Amalgam – properties, composition, handling, indications and contraindications.  <b>MUDr. Margaréta Tamášová, PhD. 10.11.2025</b>	Preparation of various cavities in bone (continuation) and restoration with zinc sulphate Cavit, GIC, composite.
10.	Principles of Black class I. cavity preparation.  <b>MDDr. Jaroslav Ďurica 17.11.2025</b>	Class I. cavity preparation in dental arch – tooth 46 : occlusion and foramen caecum. Restoration – composite. <i>Revision - lecture 9.</i>
11.	Principles of Black class II. cavity preparation. Matrix systems.  <b>MDDr. Jaroslav Ďurica 24.11.2025</b>	Class II. cavity preparation in dental arch – tooth 46 MO. Restoration – composite. Compulsory test 6-9.
12.	Principles of Black class III. and class IV. cavity preparation.  <b>MDDr. Mária Futejová 1.12.2025</b>	Class III. cavity preparation in dental arch – tooth 11 D. Restoration – composite. <i>Revision - lecture, case reports 10,11.</i>
13.	Principles of Black class V. cavity preparation, non-carious lesions. Class VI. defects.  <b>MDDr. Lenka Soták-Benedeková 8.12.2025</b>	Class IV. cavity preparation in dental arch – tooth 11 M. Restoration – composite. <i>Revision - lecture, case reports 12,13.</i>

## SYLABUS

14.	Patient assessment and examination. Medical and dental history.  <b>CREDIT TEST</b>  MDDr. Lenka Soták-Benedeková 15.12.2025	Class I. cavity preparation in dental arch - tooth 36 O. Restoration – amalgam. Class V. cavity preparation in dental arch. Restoration – GIC.  <b>Final assessment of knowledge, evaluation of the semester, and verification of practical outcomes.</b>
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### Conditions for Completing the Course: Preclinical Dental Medicine 1

- 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.

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. Nanci A. *Ten Cate's Oral Histology: Development, Structure, and Function*. 9th ed. St. Louis: Elsevier; 2017.
3. Nelson SJ. *Wheeler's Dental Anatomy, Physiology and Occlusion*. 11th ed. St. Louis: Elsevier; 2020.
4. Anusavice KJ, Shen C, Rawls HR. *Phillips' Science of Dental Materials*. 12th ed. St. Louis: Elsevier; 2013.
5. Singh G. *Textbook of Dental Anatomy and Tooth Morphology*. 3rd ed. New Delhi: Jaypee Brothers Medical Publishers; 2014.
6. Schwartz RS, Summitt JB, Robbins JW. *Fundamentals of Operative Dentistry: A Contemporary Approach*. 4th ed. Chicago: Quintessence Publishing; 2013.
7. Craig RG, Powers JM. *Restorative Dental Materials*. 12th ed. St. Louis: Mosby; 2006.
8. Sturdevant CM, Robertson TM, Heymann HO, Swift EJ. *Sturdevant's Art and Science of Operative Dentistry*. 7th ed. St. Louis: Elsevier; 2019.
9. Garg N, Garg A. *Textbook of Operative Dentistry*. 3rd ed. New Delhi: Jaypee Brothers Medical Publishers;

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2018.