

SYLABUS

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

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

<i>Week</i>	<i>Lectures</i>	<i>Practicals/Seminars</i>
1.	Course introduction and completion criteria. Introduction to dental medicine. Deciduous and permanent dentition – basic terminology and differences. Dental tissues, histology. MUDr. Jana Kaiferová, PhD. 21.9.2026	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 MUDr. Adriana Petrášová, PhD. 28.9.2026	Wax carving - tooth 13. HW: Labial surfaces of frontal teeth - drawing.
3.	Posterior teeth – morphology and notation. MUDr. Adriana Petrášová, PhD. 05.10.2026	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. MDDr. Mária Futejová 12.10.2026	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. MDDr. Mária Futejová 19.10.2026	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. MUDr. Margaréta Tamášová, PhD. 26.10.2026	Posterior teeth - occlusal modeling on 3D models using LC composite – upper jaw. Compulsory test 1-5.
7.	Resin composite - properties, composition, handling, indications and contraindications. MUDr. Margaréta Tamášová, PhD. 02.11.2026	Posterior teeth – occlusal modeling on 3D models using LC composite – lower jaw. <i>Revision - lecture 6.</i>
8.	Adhesive systems. MDDr. Mária Futejová 09.11. 2026	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. MUDr. Margaréta Tamášová, PhD. 16.11.2026	Preparation of various cavities in bone (continuation) and restoration with zinc sulphate Cavit, GIC, composite.
10.	Principles of Black class I. cavity preparation. MDDr. Jaroslav Ďurica 23.11.2026	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. MDDr. Jaroslav Ďurica 30.11.2026	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. MDDr. Mária Futejová 7.12.2026	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. MDDr. Lenka Soták-Benedeková 14.12.2026	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. CREDIT TEST MDDr. Lenka Soták-Benedeková	Class I. cavity preparation in dental arch - tooth 36 O. Restoration – amalgam. Class V. cavity preparation in dental arch. Restoration – GIC. Final assessment of knowledge, evaluation of the semester, and verification of practical outcomes.
-----	---	--

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, Roberson 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;

SYLABUS

2018.