SYLABUS

Subject:	***Preclinical Dental Medicine 2***		
Study programme:	Dental Medicine	**Semester:**	*1. semester*
Valuation:	***credit***	**Obligation:**	obligatory
Number of hours:	*2 h. lectures and 4 hours of lessons/ week*		***70 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 07:30 – 09:00
Lecture room P3

Week	***Lectures***	***Practicals/Seminars***
1.	Dental radiography – projections and techniques. X-ray interpretation **09.02.2026** **MUDr. Adriána Petrášová, PhD.**	*Revision – winter semester.* Demonstration of Xray projections and techniques at the Department of Radiology. Demonstration of intraoral Xray projections and techniques. Ergonomics.
2.	Moisture control. Rubber dam isolation. **16.02.2026** **MDDr. Mária Futejová**	*Revision – lecture 1 & 2.* Rubber dam isolation (RDI), Optragate, Optradam, moisture control. Class I cavity preparation + RDI - tooth 47.
3.	Dental practice equipment. Dental team members and their roles. **23.02.2026** **MUDr. Adriána Petrášová, PhD.**	**Test** – Black´s Class I-VI. Class I cavity + RDI – tooth 46 & completion of tooth 47. Restoration – composite, stamp technique for tooth 46.
4.	Local anesthetics in restorative dentistry. **02.03.2026** **MUDr. Adriána Petrášová, PhD.**	*Revision – lecture 3 & 4.* Patient examination. Local anesthetics demonstration. Dental office equipment. Class II cavity – tooth 16MO. Restoration – amalgam. *Homework: Drawing of occlusal surfaces of maxillary posterior teeth.*
5.	Fundamentals of dental prevention in Dental Medicine **09.03.2026** **MUDr. Eva Janitorová, PhD.,**	**Test** – lecture 1-4. Class II cavity – simple-box design – tooth 45D. Restoration – amalgam. *Homework: Drawing of occlusal surfaces of mandibular posterior teeth*

6.	Matrix systems and restorative technique options for class II cavity. Gingivectomy and ostectomy. **16.03.2026** **MDDr. Jaroslav Ďurica**	*Revision – lecture 5.* Class III cavity + RDI - 21D. Restoration – composite. Class V cavity + RDI – tooth 21V. Restoration – composite.
7.	Restorative technique options for class IV cavity. **23.03.2026** **MDDr. Mária Futejová**	**Test** – restorative materials Class IV cavity + RDI – tooth 21M. Restoration – composite. (Class V cavity.)

8.	ENDO1 - root canal morphology of anterior and posterior teeth, access cavity preparations. **30.03.2026** **MUDr. Margaréta Tamášová, PhD.**	*Revision – lecture 7.* Class IV – restoration according to the palatal key, tooth 11M. Class III cavity preparation, carious tooth 11D. Review – Class II, matrix systems.
9.	ENDO2 - indications of root canal treatment (RCT), diff. dg., RCT procedure step-by-step, pre-endodontic build-up. **06.04.2026** **MUDr. Margaréta Tamášová, PhD.**	*Revision – lecture 8.* Class II cavity + RDI – tooth 36OD caries tooth. Restoration – composite.
10.	ENDO3 - instruments and equipment for RCT, RCT procedure step-by-step **13.04.2026** **MUDr. Margaréta Tamášová, PhD.**	Class IV cavity + palatal silicone index – caries tooth 11M. Class III cavity caries tooth 11D.
11.	Odontogenesis. Developmental disorders of the dentition. **20.04.2026** **MUDr. Jana Kaiferová, PhD.**	***Test*** *– lecture 8, 9 & 10.* Access cavity preparations on various teeth. Searching the orifices of root canals. Class I cavity preparation - tooth 15 composite.
12.	Introduction to Periodontology. Periodontal instruments and examination. Phases of periodontal therapy. **27.04.2026** **MUDr. Eva Janitorová, PhD.**	*Revision – lecture 11.* Class II cavity + RDI – tooth 36MOD caries tooth. Restoration – composite
13.	Introduction to Pediatric Dentistry. Deciduous and permanent dentition – morphology, notation, differences.Management of a child patient. (Pediatric dentistry department) **04.05.2026** **MUDr. Jana Kaiferová, PhD.**	*Revision – lecture 12.* Periodontal examination. Demonstration of periodontal instruments and calculus removal**.**
14.	Introduction to Oral Medicine. **11.05.2026** **MUDr.Eva Janitorová, PhD.** **CREDIT TEST**	Revision – lecture 13,14 Fissure sealing using resin sealants – teeth 36. (Pediatric dentistry department) Final assessment of knowledge, evaluation of the semester, and verification of practical outcomes.

Conditions for Completing the Course: Preclinical Dental Medicine 2

- 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; 2018.
10. Marwah N. *Textbook of Pediatric Dentistry*. Jaypee Brothers; 2018.
11. Kalsi DS, Kalsi P. *Textbook of Periodontology for Undergraduate Students*. CBS Publ.; 2025.
12. John PR. *Textbook of Dental Radiology*. 3rd ed. Jaypee; 2019.
13. Iannucci JM, Howerton LJ. *Dental Radiography: Principles and Techniques*. 6th ed. Elsevier; 2021.