

COURSE SYLLABUS

<p align="center">Semmelweis University Faculty of Dentistry, Department of Preclinical Dentistry</p>	
<p>Name of the course in Hungarian: Fogászati általános propedeutika</p> <p>In English¹: General Dental Preclinical Practice</p> <p>In German¹: Zahnärztliche Allgemeine Propädeutik</p> <p>Credits: 4 (L1P3; English: semester 3)</p> <p>Number of hours (in hours in the whole semester): 56; lectures: 14; practicals: 42; seminars: 0</p> <p>Course type <u>compulsory</u> compulsory elective elective</p> <p>Semester in which the course is offered, according to the curriculum: 3 semester</p> <p>Frequency of announcement (per semester or year): annually</p> <p>The educational research unit teaching the course: Department of Preclinical Dentistry</p>	
<p>Academic Year: 2025/2026. 1st semester</p>	
<p>Neptun code of the course: FOKOPRT231_1A</p>	
<p>Course coordinator: Prof. Dr. Krisztina Márton</p> <p>Position: Head of the Department</p> <p>Workplace, contact: Department of Preclinical Dentistry, fprop@semmelweis.hu</p>	
<p>Course objectives and role within the Dental Curriculum:</p> <p>Principal aim of this special education is to provide the students with a professional preclinical theoretical and manual exercise, used in the clinical treatment procedures. It consists of the simulation of the clinical stages on phantom heads, but furthermore students also have the opportunity to study the basics of minimal- and micro invasive dentistry, most important rules of infection control, as well as the epidemiological data and examinations in the dental research and furthermore, with the environment and sustainability of the dentistry .</p>	
<p>Location of instruction (lecture hall, seminar room, etc.):</p> <p>Lecture: 45 minutes/ week (1 lesson) according to the timetable</p> <p>Practice: 2 hours 15 minutes (3 lessons)</p> <p>Location: Budapest, Szentkirályi utca 47.: Földvári Practice Hall (2-nd floor, 229 door) or FOOC-47 (ground floor) according the timetable</p>	
<p>Competencies acquired upon successful completion of the course:</p> <p>Student might acquire the basic knowledge and manual skills which are necessary to start the successful clinical practical training. He or she will be aware of the establishment of the dental clinic, the basics of the operative techniques in the dental healthcare, the rules of the infection control procedures.</p>	
<p>Prerequisites and eligibility requirements for enrollment and completion, in the case of a multiple-semester course, is continuous enrollment (“course rollover”) allowed, and if so, under what conditions:</p> <p>Macroscopic anatomy and embryology I.</p>	

Physical Foundations of Dental Materials Science

Enrollment requirements: minimum and maximum number of students, and selection criteria:

No minimum.

Selection is ruled by the timetable of the student 's study group

Application for the course is carried out in the Neptun system

How to apply for the course: Neptun system

Detailed course content²/Detailed course/lecture description: *(to facilitate credit recognition in other institutions)*

Topics of the lectures:

The lecturers can be change.

Lectures:

1.	Dental public health of hungary at the first decade of the 21-st century	Dr. Krisztina Márton
2.	Oral Diseases	Dr. Krisztina Márton
3.	Preparation Techniques In Dentistry: Conservative Dentistry And Endodontics	Dr. Dávid Jelencsics
4.	Morphology Of The Teeth. Guide-Planes And Cephalometric Landmarks	Dr. Krisztina Márton
5.	Role Of Dentistry In The Health Sciences. The Dental Team. Environmental aspects in dentistry.	Dr. Tamás Demeter
6.	Minimally Invasive And Micro-Invasive Dentistry. Digital Dentistry.	Dr. Tamás Demeter
7.	Establishment And Instrumentation Of The Dental Clinic	Dr. Anna Dézsi
8.	Consequences of Loss of Teeth. Types of Prosthetic Appliances	Dr. Krisztina Márton
9.	Preparation Techniques In Dentistry: Prosthodontics	Dr. Anna Dézsi
10.	Contamination And Infection Control In Dentistry.	Dr. Krisztina Márton
11.	Disinfection And Sterilization Methods In Dentistry	Dr. Krisztina Márton
12.	Operative Techniques In Dentistry: Periodontology	Dr. Dániel Palkovics
13.	Operative Techniques In Dentistry: Oral And Maxillofacial Surgery	Dr. Dorottya Kiss
14.	Operative Techniques In Dentistry: Paedodontics And Orthodontics	Dr. Miklós Kaán

Instructors:

Prof. Dr. Krisztina Márton, Dr. Anna Júlia Dézsi, Dr. Csilla Erdei, Dr. Tamás Demeter, Dr. Dávid Jelencsics, Dr. Szilárd Dávid Kovács, Dr. Zsófia Éva Vincze, Dr. Fanni Andrea Vass, Dr. Heizer Ágnes

The instructors can be change.

Practice:

1.	Pick-Up Of The Instruments. Instrumentation Of The Dental Clinic
2.	Preparation Techniques In Dentistry. Practicing Cavity Preparation On Training-Plates
3.	Preparation Techniques In Dentistry. Practicing Cavity Preparation On Training-Plates.MIDTERM.
4.	Preparation Techniques In Dentistry. Practicing Cavity Preparation On Training-Plates
5.	Preparation Techniques In Dentistry. Practicing Cavity Preparation On Training-Plates
6.	Minimally Invasive And Micro-Invasive Dentistry techniques.
7.	Class 1 Cavity Preparation on the Artificial 36 Tooth
8.	Preparation of Arteficial 46 Tooth for a Full Crown 1
9.	Preparation of Arteficial 46 Tooth for a Full Crown 2, Digital impression taking with intraoral scanner.

10.	Establishment And Instrumentation Of The Dental Clinic. Clinical Practical Introduction, Fluid Control, Four-Handed Dentistry In Practice. Contamination And Infection Control In The Dental Practice. Disinfection And Sterilization In Dentistry. Central Sterilization Unit Of The Teaching Centre. MIDTERM.
11.	Wax-modelling of the 46 tooth. RETAKE
12.	Periodontology Practice. Role Of Oral Hygiene In The Health Of The Oral Cavity. Oral Hygiene Techniques. RETAKE
13.	Oral Surgery Practice. The Oral Surgery Operation Unit. Basics Of The Dental Anaesthesia
14.	Paedodontics And Orthodontics. Introduction Into The Orofacial Anomalies In Children.
Related courses covering overlapping or interdisciplinary topics (including both compulsory and elective courses) with possible overlapping areas of the course curriculum: There is no overlap	
(AI) The application of artificial intelligence in teaching of the course: During the practical training of the subject, artificial intelligence-based educational devices and software shall be utilized (KaVo Dental Teacher; Medit Intraoral Scanner; MeditLink software). For the purpose of preparing for the exams students at their own responsibility may employ artificial intelligence, in addition to their personal notes, uploaded lectures and other educational materials (on Moodle). The use of artificial intelligence during the exams is strictly prohibited under all circumstances.	
Special academic requirements for successful course completion³: Visiting and acquiring of the establishment of the dental clinic Visiting and learning the special protocol of the central sterilization unit of the teaching center	
Attendance requirements and make-up policy: Attendance is compulsory at the practical sessions, but not compulsory on the lecture. In relation to the subject, the allowed number of absences is 25% from the practical sessions. If a student arrives after the announced starting time of the course, the delay shall be recorded as a lateness for up to 15 minutes. Arrival after this period shall be registered as an absence. Three instances of lateness shall be considered equivalent to one absence. Practical sessions might be replaced according to written individual requests of the student, depending on the capacity of the department and the staff. Absences from the practical sessions are ought not to be verified. In case of no show at the exam session is judged according to the recommendations of the Educational and Examinational Rules of the Semmelweis University	
Methods of assessment during the study period⁴: Students' academic performance is assessed on a five-point scale. Written midterm exam is carried out at the 3rd and at the 10th week of the semester. Retake of the midterm is possible on the 11 th and 12 th educational week. The unsatisfactory mark of the midterm must be replaced, and its mark is counted together with the unsatisfactory mark. Mark 2 to 4 might also be replaced, the new mark will be counted. Judgement of the accomplishment: 0%-49% - unsatisfactory (1) 50%-63% - satisfactory(2) 64%-76% - medium(3) 77%-89% - good (4) 90%-100% excellent (5)	

Mid-semester progress is monitored by means of a practical performance evaluation, with the practical work carried out being assessed on a five-point scale by the trainer.

Requirements for semester completion and signature:

Practical work is ranked at the end of the given working phase.

The final mark (practical mark) is graded according to the average of the practical and theoretical skills of the student. Grade of below **2.00** means an unsatisfactory result. In this case the semester is cancelled, and must be repeated. Attendance, in **at least 75%** of the practical sessions, - is also requirement for the recognition of the semester. Precondition for the semifinal exam is: the recognition of the semester and at least satisfactory practical mark in the electronic index of the student (Neptun).

Grading:

0-1.99 - unsatisfactory (1)

2-2.69- satisfactory(2)

2.70- 3.69 - medium(3)

3.70—4.49 - good (4)

4.50 – 5.00 excellent (5)

Type of examination: Priority semifinal exam (1 semester) oral

Examination requirements⁵:

Priority semifinal exam (1 semester):

Student chooses 2 topics and can be prepared for 15 minutes, then explains the knowledge about it, might be asked by the examiner, and is valued accordingly. Requirement is the whole practical and theoretical material of the semester.

Topics:

1. Classification of caries, clinical form, location, morphology and progression.
2. Characteristics of caries incipiens, treatment possibilities.
3. Characterization of dentin caries.
4. Periodontal diseases: form, pathology and diagnostics.
5. History of dental public health in Europe and Hungary.
6. Examination of oral health, dental and periodontal indexes.
7. Instrumentation of the dental chair and the dental clinic.
8. Grouping and characterization of hand instruments and engine driven instruments.
9. Requirements of the establishment and instrumentation of the dental clinic.
10. Definition of contamination and cross infection. Most common microorganisms causing diseases in the health care environment.
11. Hygiene zones in the dental office.
12. Definition of disinfection, disinfection methods in dentistry
13. Definition of sterilisation, sterilisation methods in dentistry
14. Signing of teeth, morphology of the teeth. Guide planes and cephalometric landmarks.
15. Morphology of the front teeth.
16. Morphology of the premolar teeth.
17. Morphology of the molar teeth.
18. Minimally invasive techniques in the preparation of cavities.
19. Application of the caries-infiltration technique, as a microinvasive method.
20. Principles of cavity preparation according to Black. Nomenclature of cavity, surfaces, walls, angles, edges.
21. Importance and possibilities of the dental plaque control.

22. The basic principles and tools of the mechanical plaque control.
23. Importance of the interdental cleaning, techniques and aids.
24. Cleaning of the gingival sulcus.
25. Types of fixed prosthetic appliances.
26. Principles of tooth preparations.
27. Types of removable prosthetic appliances.
28. Consequences of the loss of teeth, the effects of edentulousness.
29. Fields of dentoalveolar- and maxillofacial surgery. Definition of impacted and retained teeth. Most common interventions in dentoalveolar surgery.
30. Most frequent interventions in maxillofacial surgery. Steps of surgical hand wash.
31. Parts and parameters of the syringe and the needle, used in dentistry.
32. General rules of dental anesthesia.
33. Comparison of the establishment and instrumentation of the dental clinic and the oral surgery operating room.
34. Hand hygiene rules in the dental office.
35. Classification of cavities. Principles of cavity preparation by Black.
36. Definition and localisation of caries predilection spots.
37. General rules of cavity preparation.
38. Primary phases of cavity preparation, definition of each phases.
39. Secondary phases of cavity preparation, definition of each phases.
40. Definition of the dentally originated cysts. Dental implants.
41. Cavity preparation by Black versus minimally and micro invasive techniques.
42. Micro invasive techniques in caries prevention and therapy.
43. Diagnosis of caries in pits and fissures, in smooth surfaces and in root surfaces. Assessment tools.
44. Eruption of primary and secondary teeth.
45. Aplasia, impacted, retentive teeth, persistent primary teeth.
46. Classification of removable orthodontic appliances.
47. Elements of fixed orthodontic appliances, multiband system.
48. Angle diagnostic system.
49. Waste management in the dental office. Environmental protection aspects.
50. Needle prick accidents and prevention against needle prick accidents.
51. Tooth preparation forms and different kinds of finish lines.
52. Requirements of tooth preparation.

Grading method and type⁶, the option for grade offer and its conditions:

mark: 1-5 grading considering the student's accomplishment on the oral exam, and the practical mark

Examination registration procedure: in Neptun-system, limited by the given number and the given dates

Rules for examination retake:

According to the actual In case of no show is judged the according to the the rules and guidelines of the Educational and Examination Rules of the Semmelweis University university and faculty rules.


Recommended printed, electronic, and online study materials, textbooks, and references (include URLs for online materials):

all the materials are uploaded onto the homepage of Department
<http://semmelweis-egyetem.hu/propedeutika/english/>

Signature of course lecturer (course coordinator): Prof. Dr. Krisztina Márton



Signature of the head of coordinating department:



Date of submission: 29 August 2025

Opinion of the Committee on Education and Credit Transfer (OKB):

Notes from the Dean's Office:

Signature of Dean:

¹ This section must be completed only if the course is offered in the given foreign language.

² Theoretical and practical instruction must be listed separately, broken down by hours (weeks) and numbered accordingly. Attachments are not permitted.

³ E.g., fieldwork, case report analysis, conducting a survey, etc.

⁴ E.g., homework, in-class presentations, midterm tests. Please specify topics and dates, as well as possibilities for make-up and retake.

⁵ For a theoretical exam, please include the list of exam topics, for a practical exam, specify the scope and format of the examination.

⁶ Description of how the theoretical and practical exams are weighted in the final grade. Description of midterm assessments contribute to the final grade.