

COURSE SYLLABUS

Semmelweis University Faculty of Dentistry, Dentistry

Name of the course: Odontotechnology and Prosthodontics Pre-clinical II.

Credit value: 4

Lessons (in hours in the whole semester): 4 from this, **lectures:** 0 **practicals:** 3 x 45 min

seminars: 1 x 45 min

Type of the course: compulsory

Semester in which it is announced according to the curriculum: spring

Frequency of announcement (per semester or year): year

The responsible educational and research organizational unit for teaching the subject: Department of Prosthodontics

Academic year: 2025/2026 II. semester

Subject (Neptun) code: FOKOPK365_2A

Lecturer of the course:

Dr. Barbara Kispélyi, Associate Professor

Contact:

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Opening hours of the Secretariat:

Monday: 8:00 – 12:00

Tuesday: 8:00 – 12:00

Wednesday: 8:00 – 12:00

Thursday: 8:00 – 12:00

Friday: Closed

Students are welcomed only in the office hours. Please be aware of it!

The goals and place of the course in regards to the education of dental students:

Principal aim of this course is to provide the students with a professional preclinical theoretical and manual exercise, used in the prosthodontics treatment procedures. It consists of the simulation of the clinical and technological stages on phantom heads.

Location of the course (address of lecture hall, seminar room etc.):

Seminars: Dr. Árkövy József lecture hall (1088 Budapest, Szentkirályi street 47. groundfloor) and Dr. Balogh Károly and Dr. Varga István room (1088 Budapest, Szentkirályi street 47. 1st floor)

Practice: Propedeutical Laboratory (1088 Budapest, Szentkirályi street 47. groundfloor)

Competences acquired by completion of the course:

Understanding the labside and chairside steps of making fixed retained-, and implant-retained prosthodontics- at the propaedeutic level.

Pre-study requirements and prerequisites of course registration and completion, in case of a multi-semester subject, the standpoint of the educational-research unit on the concurrent subject registration and on the requirements of permission thereof :

Macroscopic anatomy and embryology II., Odontotechnology and Prosthodontics Pre-clinical I.

Concurrent subject registration is not possible.

Number of students required for announcement of course (min., max.), method of selection:
In accordance with the number of 2nd year students.

Method of course registration:

Neptun system

Detailed course/lecture description¹: *(to facilitate credit recognition in other institutions)*

The theme of the seminars:

1. Introduction to the subject, introductory seminar
2. Online moodle learning module: Fixed prosthodontic appliances (FPD) I. : types (veneers, dowel core restoration, partial and full veneer crown) and tooth preparation
3. Seminar material which requires personal attendance: Fixed prosthodontic appliances (FPD) I. : types (veneers, dowel core restoration, partial and full veneer crown) and tooth preparation
4. Online moodle course module: Fixed prosthodontic appliances (FPD) II. : impression taking and modells
5. Seminar material which requires personal attendance: Fixed prosthodontic appliances (FPD) II. : impression taking and modells
6. Online moodle learning module: Fixed prosthodontic appliances (FPD) III.: producing framework, layering ceramics and cementation
7. Seminar material which requires personal attendance: Fixed prosthodontic appliances (FPD) III.: producing framework, layering ceramics and cementation
8. Online moodle course module: Basics of digital dentistry (chair-side)
9. Seminar material which requires personal attendance: Basics of digital dentistry (chair-side)
10. Online moodle course module: CAD/CAM technology
11. Seminar material which requires personal attendance: CAD/CAM technology
12. Online moodle course module: Implant prosthodontics: fixed and removable prosthodontics
13. Seminar material which requires personal attendance: Implant prosthodontics: fixed and removable prosthodontics
14. Consultation

Practical sessions:

1. Handing out of the instruments, introduction, usage instruction of handpiece and burs
2. Tooth preparation of 14 for (PFM) crown (Turbine on table)
3. Tooth preparation of 27 for fixed partial denture(Turbine hp. in Fantom head)
4. Tooth preparation of 25 for fixed partial denture (Turbine hp. n Fantom head)
5. Two-phase impression
6. Intraoral scanning presentation with Medit IO scanner
7. Antagonistic impression, bite registration
8. Preparation of 25 for post and core
9. Wax-up (diagnostic wax-up) pattern preparation for front teeth
10. Wax-up (diagnostic wax-up) pattern preparation for premolar-molar teeth
11. Adapta deep drawing ((Homework submission - Model)
12. Wax-up of the bridge: Crowns outlining and shaping of the occlusal surface (Homework submission - Temp. bridge)
13. Wax pattern fabrication of the four-unit bridge
14. Instrument collection, consultation

Courses (compulsory and obligatory elective) which in part or entirely overlap the topics of above course:

General Dental Materials

Odontotechnology and Prosthodontics Preclinical Course I, III.

Prosthodontics I – V.

Clinical Dentistry I – II.

Gnathology

The application of artificial intelligence in teaching of the course:

The use of artificial intelligence is not allowed during the practices, demanstrations and exams. The use of artificial intelligence in the dental machine/devices used for patient care is allowed. Artificial intelligence may be used to assist students' preparation/learning.

Special academic work required for completion of the course²:

Attendance on practices and lectures, replacement in case of missed sessions:

Attendance at seminars requiring personal attendance and the weekly practices is compulsory. Absences from any title, even with a doctor's certificate, cannot exceed 25% of the number of seminars requiring personal attendance/ weekly practices.

No more than a 25% of the practices are allowed to be missed for any reason – not even with a doctor's note – otherwise the semester will not be accepted. Doctor's notes can only be accepted after an individual evaluation. The medical notes will be sent back to the supervisory section of the issuing medical institutions for verification. If there are 6 seminars requiring personal attendance per semester, the maximum number of absences from seminars requiring personal attendance is 1.

If there are 7 or 8 seminars requiring personal attendance per semester, the maximum number of absences from seminars requiring personal attendance is 2.

A student is considered to be late from the practices if he/she arrives no more than 15 minutes later than the time set by the timetable. These late arrivals are marked in the attendance sheet and if someone is late three times within a semester, it will be considered an absence. However, if someone is more than 15 minutes late from the practice, it will be already registered as an absence, but the student will be allowed to attend the practice.

The use of cell phones during the practices is forbidden. If the student uses his / her mobile phone despite the warning of his / her instructor, he / she will be not allowed to continue the practice and will have to leave the room immediately. This is considered as an absence, which is included in the number of absences allowed during the semester. During the practices, students can use tablets, notebooks, and small laptops to take notes.

There is no possibility to replace the seminars and the practices.

Students must arrive for the seminars on time, otherwise they will disturb the lecturer and the audience. No extra seminars will be provided for missed seminars.

Method of checking acquired knowledge during the study period³:

Seminars:

6 topics per semester are covered in the seminars. The seminars are taught in a blended learning format. 50% of the seminars are online, in weekly rotation, the other 50% is in the form of small group (max. 25-30 participants) classroom training requiring personal attendance.

The online learning module always precedes the personal seminar within the same subject area.

The teaching material corresponding to the topics of the seminars is available online in moodle platform.

The course material is assessed and checked during the six two-week seminar blocks using a mobile phone application (Voovo). During each block, groups of questions are opened 3–5 times, each time containing 8–15 questions. These questions may reappear throughout the block; incorrectly answered questions are repeated more frequently by the app. Once a question is answered correctly, the previous incorrect attempt will not reduce the final consistency score.

However, the Voovo application also contains a “**Knowledge Score**”, which measures the proportion of correct versus incorrect answers. If this score drops below a critical threshold, students will not be eligible to receive the highest marks—even if their consistency score remains high. As a result, each grade level is defined not only by consistency, but also by a minimum required level of knowledge.

The application sends a push notification to the user's device whenever a new question group becomes available. Until the questions are answered, students also receive daily reminder notifications. Once the two-week block expires, **it is no longer possible to answer the questions**.

Scoring and Conversion Formula

Student performance is measured through an average percentage result recorded in the Voovo app (**Consistency Score**). This semester average is converted into a partial seminar grade using the following formula:

Grade	Consistency Score	Minimum Knowledge Score
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1	0% – 49%	min. 0%
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2	50% – 63%	min. 40%
3	64% – 76%	min. 50%
4	77% – 89%	min. 60%
5	90% – 100%	min. 65%

The partial seminar grade (based on Voovo results) accounts for **50% of the total practical grade**, alongside the partial grade earned during the practice sessions.

Impact on Final Examination

Students whose average scores in the Voovo application (average of Voovo performance over several semesters) are within the top 5 percentage of their class, get the score of 5 (excellent) for one item they have chosen from the drawn ones during the final exam.

Practices:

Compulsory written tests are carried out one-time in the semester. Written test will be held in the 1st week. Replacement/correction of the written test would be passed in the 2nd, 3rd and 4th weeks. Satisfactory grades can be given in case of a result of at least 50% or above.

Practical grade is considered unsatisfactory if the average of the test grades are not over a 2,0 average. Failed written test means, that a student receives an unsatisfactory evaluation for a written test in a particular topic despite the two retakes.

Grading of the tests:

1. - 49%
2. 50% - 63%
3. 64% - 76%
4. 77% - 89%
5. 90% - 100%

The clinical and laboratory work phases are graded separately.

In practicals, practical component marks may be replaced but not corrected.

The teacher will take digital photo documentation of the practical work phases.

At the end of the semester, the student will receive a partial practical grade, based on the average of the marks for each phase and the result of the final examination. The practical mark is the average of the partial seminar and the partial practical grades. The practical grade is unsatisfactory if the average of these components does not reach an average of 2.0.

In case of an unsatisfactory practical mark, the signature at the end of the semester will be refused.

A grade of "fail" is given if the student has not taken the final examination and has not made up the examination at the make-up opportunities, or if the student's absence from seminars/practicals exceeds the permitted 25%.

Requirements of an accepted semester (*signature of the lecturer*):

At the end of the semester, the student will receive a partial practical grade, based on the average of the marks for each phase and the result of the final examination. The practical mark is the average of the partial seminar and the partial practical grades. The practical grade is unsatisfactory if the average of these components does not reach an average of 2.0.

In case of an unsatisfactory practical mark, the signature at the end of the semester will be refused.

Attendance at seminars requiring personal attendance and attendance at practices is compulsory. No more than 25%-25% of the practices and the seminars requiring personal attendance are allowed to be missed for any reason – not even with a doctor's note – otherwise the semester will not be accepted.

If there are 6 seminars requiring personal attendance per semester, the maximum number of absences from seminars requiring personal attendance is 1.

If there are 7 or 8 seminars requiring personal attendance per semester, the maximum number of absences from seminars requiring personal attendance is 2.

In case of absence is above this number, the semester will not be signed by the faculty.

Type of the exam:

no exam

Requirements of the exam³:

no exam

Grading of courses⁴. The possibility and requirements of an offered grade:**Grading of courses⁵:**

Practical mark: The average of the partial practical grades and the partial seminar grades.

The student will receive a partial practical grade for his/her written (final paper) or oral report, from the course material or from the practical work phases. Students get the partial practical grade from the valuation of their theoretical and practical work, such as behavior and attitude during the practices.(1-5 grades)

The partial practical grade is based on the marks for each stage of the work and the average of the result of the final examination paper (marks 1-5).

The practical mark is unsatisfactory if the average of the component marks is less than 2.0.

In case of an unsatisfactory practical mark, the signature at the end of the semester will be refused.

No offered grade.

Exam registration:

no exam

Rules of repeating exams:

no exam

List of textbooks, lecture notes and recommended textbooks, online material:**Textbooks:**

Stefan Wolfart: Implant Prosthodontics, A Patient-Oriented Strategy, (Quintessence Publishing, 1st ed. 2016.)

Cortellini S, Favril C, De Nutte M, Teughels W, Quirynen M. Patient compliance as a risk factor for the outcome of implant treatment. *Periodontol 2000*. 2019 Oct;81(1):209-225. doi: 10.1111/prd.12293. PMID: 31407429.

Heitz-Mayfield LJA, Heitz F, Lang NP. Implant Disease Risk Assessment IDRA-a tool for preventing peri-implant disease. *Clin Oral Implants Res*. 2020 Apr;31(4):397-403. doi: 10.1111/cir.13585. Epub 2020 Feb 20. PMID: 32003037.

McCracken's Removable Partial Prosthodontics (10/e) Glen P.McGivney-Alan B.Carr. Hardback Mosby, 1999.

Herbert T. Shillingburg: Fundamentals of Fixed Prosthodontics (Quintessence 4th 1997.),

R. M. Basker, J. C. Davenport, J.: Prosthetic Treatment of the Edentulous Patient 5th(MCMillan Press ltd.)

Recommended textbooks:

Hermann Péter, Szentpétery András: Gnátológia (Semmelweis Kiadó, 2018)

Fogpotlástan I-II. Szerk.: Dr. Hermann Péter és Dr. Kispélyi Barbara (Semmelweis Kiadó, 2022)

Other study aids:

Moodle

On the Website of Department of Prosthodontics: <https://semmelweis.hu/fogpotlastan/en/angol/>

Seminar and practical content

Signature of course lecturer:**Signature of head of department:**


Date of submission: February 16, 2026

Opinion of OKB:**Notes from the Dean's Office:****Signature of Dean:**

¹ Detailed and numbered for each week of theoretical and practical lessons one by one. In an annex, cannot be attached appendix!

² Eg. homework, report, midterm exam etc. Topics, dates, method of retake and replacement

³ List of topics in case of theoretical exam, thematic and method in case of practical exam

⁴ Method of inclusion of theoretical and practical exams. Method of inclusion of midterm assessments.

⁵ Method of inclusion of theoretical and practical exams. Method of inclusion of midterm assessments.