

COURSE SYLLABUS

Semmelweis University Faculty of Dentistry, Dentistry

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

Credit value: 4

Lessons (in hours in the whole semester): 3 **from this, lectures:** 0 **practicals:** 2 x 45 min
seminars: 1 x 45 min

Type of the course: compulsory

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

Frequency of announcement (per semester or year): year

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

Academic year: 2025/2026 I. Semester

Subject (Neptun) code: FOKOPK365_1A

Lecturer of the course:

Dr. Barbara Kispélyi, Associate Professor

Contact:

Semmelweis University Faculty of Dentistry Clinic for Prosthodontics

kispelyi.barbara@semmelweis.hu

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 special education 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. Varga István and Dr. Balogh Károly classroom (1088 Budapest, Szentkirályi street 47. 1st floor)

Practice: **Monday:** Dr. Földvári Imre Laboratory (1088 Budapest, Szentkirályi street 47. 2nd floor)

Tuesday: Dr. Földvári Imre Laboratory (1088 Budapest, Szentkirályi street 47. 2nd floor)

Competences acquired by completion of the course:

Understanding the labside and chairside steps of making a complete denture - 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 :

General Dental Materials, Macroscopic anatomy and embryology II.

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: primary impression, primary cast, special tray
3. Seminar material which requires personal attendance: primary impression, primary cast, special tray
4. Online moodle learning module: secondary impression, occlusal rim
5. Seminar material which requires personal attendance: secondary impression, occlusal rim
6. Online moodle learning module: Gnatology considerations in the fabrication of a complete denture (adjusting occlusal rims (Christensen phenomenon) , determination of CR, articulators, face bow
7. Seminar material which requires personal attendance: Gnatology considerations in the fabrication of a complete denture (adjusting occlusal rims (Christensen phenomenon) , determination of CR, articulators, face bow
8. Online moodle learning module: trial denture, try-in of the trial denture, processing, recall
9. Seminar material which requires personal attendance: trial denture, try-in of the trial denture, processing, recall
10. Online moodle learning module: Partial dentures I.: types, parts and functions of the parts, devices of support and retention
11. Seminar material which requires personal attendance: Partial dentures I.: types, parts and functions of the parts, devices of support and retention
12. Online moodle learning module: Partial dentures II.: complete workflow of partial dentures (clinical and laboratory aspect)
13. Seminar material which requires personal attendance: Partial dentures II.: complete workflow of partial dentures (clinical and laboratory aspect)
14. Consultation

Topics of the Practices:

1. **week: 1st week midterm**, Introduction, Instrument delivery
2. **week:** Primary impression taking for Maxillary complete dentures
3. **week:** Primary impression taking for Mandibular complete dentures
4. **week:** Outlining the borders of the special tray, Fabrication of mandibular light-curing acrylic special tray
5. **week:** Fabrication of mandibular light-curing acrylic special tray
6. **week:** Fabrication of maxillary occlusal rim, Moodle online tutorial for special tray design, CAD planning – special tray
7. **week:** Determination of centric occlusion I., Fabrication of maxillary occlusal rim, CAD planning – special tray
8. **week:** Determination of centric occlusion II., CAD planning – special tray, deadline of mandatory homework
9. **week:** Upper and lower trial denture fabrication I., setting up 21, 31
10. **week:** Upper and lower trial denture fabrication II., setting up 22, 23
11. **week:** Upper and lower trial denture fabrication III., setting up all the front teeth
12. **week:** Upper and lower trial denture fabrication IV., setting up praemolar teeth
13. **week:** Upper and lower trial denture fabrication V., setting up molar teeth Processing dentures, Insertion, Digital workflow and 3D printing in complete denture fabrication
14. **week:** 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, demonstrations 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:

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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. (Unless the patient is photographed.) 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 sessions.

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
1	0% – 49%	min. 0%
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 percentege of their class, get the score of 5 (excellent) for one item they have choosen from the drawn ones during the final exam.

Practice grade:

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 demonstration means, that a student recieves an unsatisfactory evaluation for a demonstration written 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 mark, 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 grades and the partial practical grades.

The practical mark 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):

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.

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

Type of the exam:

no exam

Requirements of the exam³:

no exam

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

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

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

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

In seminars that require personal participation, student achievement is evaluated in the form of an average percentage. The percentage average value achieved during the semester is the basis for the partial seminar grade (1-5 grades).

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

No offered grade.

Exam registration:

no exam

Rules of repeating exams:

no exam

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

Textbooks:

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

Lecture notes:

Recommended textbooks:

Gnatológia Hermann Péter, Szentpétery András (Semmelweis Kiadó, 2018)

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

Other study aids:

Moodle

On the website of Clinic for Prosthodontics: <https://semmelweis.hu/fogpotlastan/en/angol/>

Seminar and practice content

Signature of course lecturer:

Signature of head of department:

Date of submission: September 8. 2025

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.