

COURSE SYLLABUS

Semmelweis University Faculty of Dentistry, Dentistry

Name of the course: Dental Laboratory Practice

Credit value: 1

Lessons (in hours in the whole semester): 60

from this, lectures: 0 practicals: 60 hours (2 weeks) seminars: 0

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: FOKOODO405_1A

Lecturer of the course:

Semmelweis University Faculty of Dentistry Department of Prosthodontics

Dr. Barbara Kispélyi, Associate Professor, Vice-Director of Department of Prosthodontics

Contact:

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:

The goal of the summer practice is the introduction in the basics odontotechnology, the teaching of the theoretical and practical fundaments of laboratory work, as well as the improvement of manual skills.

As part of the summer practice the students also visit an outside dental laboratory, where they will obtain basic knowledge considering the laboratory working phases of fixed and removable dental appliances.

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

Skill - preclinical laboratory (1088 Budapest, Szentkirályi street 47. 2nd)

Competences acquired by completion of the course:

Learning basic practical and theoretical knowledge of odontotechnology. Improving hand dexterity.

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

Number of students required for announcement of course (min., max.), method of selection:

In accordance with the number of 1st year students.

Method of course registration:

Neptun system

Detailed course/lecture description¹: *(to facilitate credit recognition in other institutions)***Topics of the practical sessions:**

- Introduction to the training laboratory, handing out of the instruments, demonstration of the instruments
- Cast making
- Wax pattern making of an incisor and a praemolar tooth.
- Waxing up of an occlusal surface.
- Artificial teeth
- Introduction of the laboratory, of its structure. Demonstration of the cast making, metall casting and porcelain veneering.
- Getting acquainted with the making of fixed and removable dental appliances.
- Presentation of a specific odontotechnological workphase

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.

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:

-

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

Students must attend at the practices.

No more than a 10 % of the practices are allowed to be missed for any reason – not even with a doctor's note – otherwise the practice will not be accepted.

Doctor's notes can only be accepted after an individual. The medical notes will be sent back to the supervisory section of the issuing medical institutions for verification.

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 (maximum 3). During the practices, students can use tablets, notebooks, and small laptops to take notes.

No extra sessions will be provided for missed sessions

Method of checking acquired knowledge during the study period³:

No written or oral midterms for this course.

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

Presentation of a specific odontotechnological workphase, as a group assignment (8 minute ppt presentation).

No more than a 10 % of the practices are allowed to be missed for any reason – not even with a doctor's note.

Type of the exam:

no exam

Requirements of the exam³: no exam
Grading of courses⁴. The possibility and requirements of an offered grade: Practical grade (on a scale of three)
Exam registration: no exam
Rules of repeating exams: no exam
<p>List of textbooks, lecture notes and recommended textbooks, online material:</p> <p>Textbooks:</p> <p>McCracken's Removable Partial Prosthodontics (10/e) Glen P.McGivney-Alan B.Carr. Hardback Mosby, 1999.</p> <p>Stefan Wolfart: Implant Prosthodontics, A Patient-Oriented Strategy, Quintessence Publishing, 1st ed.2016.</p> <p>Cortellini S, Favril C, De Nutte M, Teughels W, Quirynen M. Patient compliance as a risk factor for the outcome of implant treatment. <i>Periodontol 2000</i>. 2019 Oct;81(1):209-225. doi: 10.1111/prd.12293. PMID: 31407429.</p> <p>Heitz-Mayfield LJA, Heitz F, Lang NP. Implant Disease Risk Assessment IDRA-a tool for preventing peri-implant disease. <i>Clin Oral Implants Res</i>. 2020 Apr;31(4):397-403. doi: 10.1111/clr.13585. Epub 2020 Feb 20. PMID: 32003037.</p> <p>Herbert T. Shillingburg: Fundamentals of Fixed Prosthodontics (Quintessence 4th ed. 1997.)</p> <p>R. M. Basker, J. C. Davenport, J.: Prosthetic Treatment of the Edentulous Patient 5th (MCMillan Press ltd.)</p> <p>Recommended textbooks:</p> <p>Fogpótlástan I-II. Szerk.: Dr. Hermann Péter, Dr. Kispélyi Barbara (Semmelweis Kiadó, 2022)</p> <p>Gnatológia Szerk.: Dr. Hermann Péter, Dr. Szentpéteri András (Semmelweis Kiadó, 2018)</p> <p>Other study aids:</p> <p>Moodle</p> <p>On the website of Department of Prosthodontics https://semmelweis.hu/fogpotlastan/en/</p> <p>Topic of the seminars</p>
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.