

COURSE SYLLABUS

Semmelweis University Faculty of Dentistry, Dentistry

Name of the course: General Dental Materials

Credit value: 1

Lessons (in hours in the whole semester): 1 from this, lectures: 0 practicals: 0 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: 2024/2025 II. semester

Subject (Neptun) code: FOKOFFPK364_1A

Lecturer of the course:

Dr. Judit Borbély, Associate Professor

Contact:

Semmelweis University Faculty of Dentistry Department of Prosthodontics

borbely.judit@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:

General Dental Materials introduces those materials employed in prosthodontics, in dental technology and in restorative dentistry. The origin, the chemical structure, the physical properties of the dental materials and their biological effects onto the living tissues are discussed in the seminars, furthermore the history and the methodology of the use of these materials are evaluated.

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

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

Competences acquired by completion of the course:

Understanding the chemical composition and physicochemical properties of materials based on the subject "Physical Bases of dental materials science".

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 I., Physical Foundations of Dental Materials Science

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 1st year students.

Method of course registration:

Neptun system

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

1. Introduction to the subject, introductory seminar
2. Online moodle learning module: impression and modell materials
3. Seminar material which requires personal attendance: impression and modell materials
4. Online moodle learning module: metals (implant materials)
5. Seminar material which requires personal attendance: metals (implant materials)
6. Online moodle learning module: polimers (resin materials and acrylic)
7. Seminar material which requires personal attendance: polimers (resin materials and acrylic)
8. Online moodle learning module: ceramics
9. Seminar material which requires personal attendance: ceramics
10. Online moodle learning module: luting cements
11. Seminar material which requires personal attendance: luting cements
12. Online moodle learning module: CAD/CAM materials
13. Seminar material which requires personal attendance: CAD/CAM materials
14. Consultation

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

Odontotechnology and Prosthodontics Preclinical Course I – III.

Prosthodontics I – V.

Clinical Dentistry I – II.

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.

Students must arrive for the seminars on time, otherwise they will disturb the lecturer and the audience.

Extra seminars may not be provided for missed sessions.

Method of checking acquired knowledge during the study period³:

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 weakly rotation, the other 50% is in the form of small group (max. 25-30 participants) classroom training requiring personal participation.

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.

In the seminar classes requiring personal attendance, this material will be tested and reviewed using online learning platforms (e.g. Zoom, Quizz, Mentimeter, Surveymonkey, etc.)

Each seminar requiring personal attendance starts with a test on the previous week's online Moodle course material. We will not be able to provide a retake test for the seminar tests.

Student performance in the seminars will be assessed in the form of an average percentage.

At the end of the semester, the average percentage of the semester will be converted into an end of semester grade according to the following formula:

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

Students whose average semester test scores are within the top 5% of their class, get the score 5 (excellent) for one item they have chosen from the drawn ones.

The end of semester grade is unsatisfactory if the student's average is below a 2.0.

The grade is "failing" if the student's absence from seminars exceeds the permitted 25 %.

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

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, which means - according to the current Studies and Examination Regulation (TVSZ)- that the student can not apply for the exam.

Type of the exam:

Examination (Semi – final exam). Failure to pass any part of the examination will result in an unsatisfactory mark.

Requirements of the exam³:

Topics of the semester.

The exam is a review of the semester's course material according to the list of items available on the on the clinic website and moodle.

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

The end of semester grade: In seminars requiring personal attendance, student performance is assessed in the form of an average percentage. The average percentage achieved during the semester is the basis for the end of semester grade (1-5).

The end of semester grade is unsatisfactory if the student does not achieve a 2.0 average.

In case of an unsatisfactory partial seminar grade, the signature at the end of the semester will be refused.

Examination (semi-final exam): oral examination

The examination (semi-final exam) is graded on a scale of 1-5. Oral semi-final examination based on theoretical questions.

No offered grade.

Exam registration:

Neptun system, according to Semmelweis University Study and Examination Regulations

Rules of repeating exams:

Neptun system, according to Semmelweis University Study and Examination Regulations

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

Textbooks:

Wilson, Mansfield, Heath, Spence: Dental Technology and Materials for Students. Blackwell Scientific Publications.

Powers, Wataha: Dental Materials Properties and Manipulation. Mosby

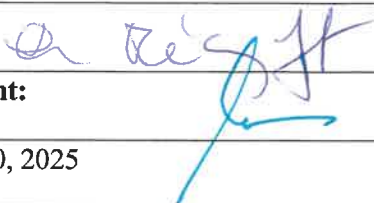
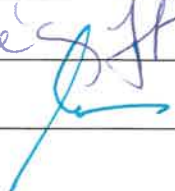
Lecture notes

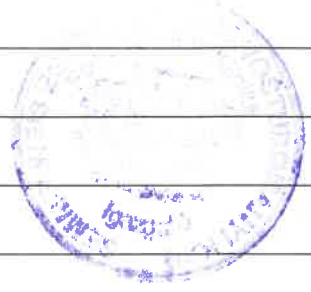
Recommended textbooks:

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

Other study aids:

Moodle

On the Website of Department of Prosthodontics: https://semmelweis.hu/fogpotlastan/en/angol/ Seminar content
Signature of course lecturer: 
Signature of head of department: 
Date of submission: February 10, 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.