

COURSE SYLLABUS

Semmelweis University Faculty of Dentistry, Dentistry

Name of the course: Gnathology

Credit value: 3

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: 2024/2025 I. Semester

Subject (Neptun) code: FOKOFPK367_1A

Lecturer of the course:

Prof. Dr Peter HERMANN, Professor, Clinical director of Clinic for Prosthodontics

Contact:

Semmelweis University Faculty of Dentistry Clinic for Prosthodontics

hermann.peter@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:

Teaching the relationship between all the components of the masticatory system in normal function, dysfunction, parafunction, including the morphological and functional features of contacting surfaces of opposing teeth and restorations. Diagnosis and treatment of occlusal trauma and dysfunction, and other temporomandibular joint and muscle function disorders.

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 classroom (1088 Budapest, Szentkirályi street 47. 2nd floor)

Practice: Room 213 and 214 (1088 Budapest, Szentkirályi street 47. 2nd floor)

Competences acquired by completion of the course:

Teaching the relationship between all the components of the masticatory system in normal function, dysfunction, parafunction, including the morphological and functional features of contacting surfaces of opposing teeth and restorations. Diagnosis and treatment of occlusal trauma and dysfunction, and other temporomandibular joint and muscle function disorders.

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 :

Restorative Dentistry and Endodontics I., Prosthodontics I., Oral Diagnostics

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 4th 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: Introduction into the Anatomy and Physiology of the Stomatognathic System. Mandibular Positions: Rest Position, ICP, CR, CO
3. Seminar material which requires personal attendance: Introduction into the Anatomy and Physiology of the Stomatognathic System. Mandibular Positions: Rest Position, ICP, CR, CO
4. Online moodle learning module: Mandibular Movements: Rotation and Translation Opening and Closing, Protrusion-retrusion, Excentric Movements and Border Movements
5. Seminar material which requires personal attendance: Mandibular Movements: Rotation and Translation Opening and Closing, Protrusion-retrusion, Excentric Movements and Border Movements
6. Online moodle learning module: Simple Hinge, Average Value Articulators, Fully Adjustable Articulators Mounting with the Bonwill Triangle. Individual mounting, the Use of Face-bow.
7. Seminar material which requires personal attendance: Simple Hinge, Average Value Articulators, Fully Adjustable Articulators Mounting with the Bonwill Triangle. Individual mounting, the Use of Face-bow.
8. Online moodle learning module: Registration of Maxillomandibular relationships
9. Seminar material which requires personal attendance: Registration of Maxillomandibular relationships
10. Online moodle learning module: Adjustment of the Articulator.
11. Seminar material which requires personal attendance: Adjustment of the Articulator
12. Online moodle learning module: Gnatological Aspects in the Manufacturing of Prosthetic Appliances. Axiography, Digital Analysis of Movements and the Arcus Digma System. Temporomandibular disfunction, orofacial pain
13. Seminar material which requires personal attendance: Gnatological Aspects in the Manufacturing of Prosthetic Appliances. Axiography, Digital Analysis of Movements and the Arcus Digma System. Temporomandibular disfunction, orofacial pain
14. Consultation

Practices:

1. Consultation
2. Consultation
3. Consultation
4. Examination of the TMJ in non- TMD patients
5. Wax up of premolar and molar teeth
6. Wax up of premolar and molar teeth
7. Setting up the facebow
8. Mounting of the upper cast into the articulator
9. Mounting of the lower cast into the articulator
10. Programming of articulators
11. Arcus Digma
12. Midterm exam, practical exam
13. Occlusal analysis on mounted casts
14. 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

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 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 (maximum 3). 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 lectures 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:

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 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.

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 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 a partial seminar grade according to the following formula:

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

The average of the partial seminar grade is the 50% of he final mark beside the partial practical grade.

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.

Failed demonstration means, that a student receives an unsatisfactory evaluation for a demonstration written in a particular topic despite the two retakes.

Grading of the tests:

6. - 49%
7. 50% - 63%
8. 64% - 76%
9. 77% - 89%
10. 90% - 100%

At the end of the semester, the student is awarded a final mark based on the average of the grades for each practical stage and the result of the final examination. The final mark is the average of the partial seminar grade and the partial practical grade.

The final mark is unsatisfactory if the average of these components does not reach an average of 2.0.

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

The evaluation is graded as "failed" if the student did not participate in even one of the demonstrations and did not make up for it in the substitute opportunities, or if the student's absence from the exercises/ seminars exceeds the permitted 25%.

During the semester, the exam questions will be worked out in three practicals. The students who got the highest total score for their practical activity, the wax-up practical, the elaborated exam questions and their test results (maximum 30% of the students in the course) can be awarded for one of the exam questions with "excellent" grade.

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 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.

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

Type of the exam:

Raised kollokvium. Theoretical exam.(1-5 marks).

Failure to pass any part of the examination will result in a fail mark.

Requirements of the exam³:

Raised kollokvium (1 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:

Final mark: The average of the partial practical grade and the partial seminar grade.

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 practical grade from the valuation of their theoretical and practical work, such as behavior and attitude during the practices.(1-5 grades)

In seminars requiring personal attendance, student performance is assessed in the form of an average percentage.

The final grade is unsatisfactory if the student does not achieve a 2.0 average.

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

Raised kollokvium: oral examination

The kollokvium is graded on a scale of 1-5. Oral examination based on theoretical questions.

No offered grade.

Exam registration: Neptun system, according to the Semmelweis University Study and Examination Regulations
Rules of repeating exams: Neptun system, according to the Semmelweis University Study and Examination Regulations
List of textbooks, lecture notes and recommended textbooks, online material: Textbooks: Mohl, Zarb, Carlsson, Rugh. A Textbook of Occlusion. Quintessence. Chicago.1988. McNeill. Science and Practice of Occlusion. Quintessence. Chicago.1997. Suggested: J Okeson: Management of Temporomandibular Disorders and Occlusion, 7th Edition,2012, Mosby Hermann Péter, Szentpétery András: Gnatológia (Semmelweis Kiadó, 2018) Other study aids: Moodle Website of the Clinic for Prosthodontics Seminar content
Signature of course lecturer:
Signature of head of department:
Date of submission: September 2. 2024
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.