

**Semmelweis University, Faculty of Dentistry - single, long-cycle medical training -
Osztatlan általános fogorvos képzés**

Name of the host institution (and any contributing institution):

Parodontológiai Klinika

Name of subject: Periodontology IV.

in English: Periodontology IV.

in German: Periodontology IV.

Credit value: 3

Semester: 10th semester

(in which the subject is taught according to the curriculum)

Hours per week	Lecture	Practical lesson	Seminar
3.5	1.5	2.0	0.0

Hours per semester	Lecture	Practical lesson	Seminar
42.0	18.0	24.0	0.0

Type of course:

obligatory

Academic year:

2026/27

Language of instruction (for optional and elective subjects):

Angol

Course code:

FOKOPDK387_4A

(in the case of a new course, to be completed by the Dean's Office, following approval)

Course coordinator name: Dr. Windisch Péter

Course coordinator location of work, telephone availability: Department of Periodontology

Course coordinator position: professor, Head of the Department

Course coordinator Date and number of habilitation: 2011

Objective of instruction and its place in the curriculum:

Periodontology is a basic, conceptual subject in the undergraduate curriculum of dental students, with a definite aim to teach modern, evidence based methods of periodontal diagnostics and treatments. Providing students with up-to-date knowledge of periodontics and related implant dentistry. During clinical practices students should carry out complex treatment on a few patients on a weekly basis under supervision. Students will be able to understand the anatomy and pathology of periodontal tissues, modern methods of diagnostics and the current protocol of treatment by non-

surgical as well as surgical way, through two semesters of clinical practice. The acquired core knowledge will be essential for dentists in general dental setting

Method of instruction (lecture, group work, practical lesson, etc.):

Number of hours: 36, of which lectures: 12 , practicals: 24, seminars: 0

Competencies acquired through completion of course:

Students will be able to diagnose the diseases of the gum and the attachment apparatus, diagnose the clinical manifestations of systemic diseases, provide oral prophylaxis, non-surgical periodontal pocket therapy and basic pocket surgery. Should be familiar with mucogingival and regenerative techniques and also perio-endodontics and perio-prosthodontics.

Course outcome (names and codes of related subjects):

Prerequisites for course registration and completion: (CODE):

Periodontology III.

In the case of multi-semester courses, position on the possibility of and conditions for concurrent registration:

The number of students required to start the course (minimum, maximum), student selection method:

The total number of registered students for the given semester

Detailed course syllabus (if the course can be divided into modules, please indicate): (Theoretical and practical instruction must be broken down into hours (weeks), numbered separately; names of instructors and lecturers must be listed, indicating guest lecturers/instructors. It cannot be attached separately! For guest lecturers, attachment of CV is required in all cases!)

LECTURES 1 x 70 minutes per week:

- 1 Biology of periodontal and peri-implant tissues
- 2 Periodontitis as a factor influencing implantation
- 3 Periodontal implantology, augmentations I.
- 4 Periodontal implantology, augmentations II.
- 5 The Background and Treatment Options for Peri-implantitis
- 6 Complex Case Presentations I (Paro-prot direct/indirect, wound)
- 7 Complex Case Presentations II. (*Paro/Mucoging-Implant*)
- 8 Complex case presentations III. (*periodontal/wound/implant*)
- 9 Complex Case Presentations IV. (*periodontics/orthodontics/prosthodontics*)
- 10 Periodontal and Implant Maintenance Treatment
- 11 Periodontal diagnostic consultation
- 12 **Written exam**

PRACTICAL TRAINING: Completed in the form of a rotation at the Periodontology Clinic (3 full days)

Clinical rotation (workload sheet):

Diagnosis – new patient intake (3)

Comprehensive treatment plan, periodontal (implant) and prosthetic prognostic evaluation (1)

Non-surgical pocket treatment. Supragingival and subgingival debridement. Curettage, under local anesthesia (minimum 3)

Surgical assistance (2)

Other courses with overlapping topics (obligatory, optional, or elective courses) in interdisciplinary areas. To minimize overlaps, topics should be coordinated. Code(s) of courses (to be provided):

FOKODT427_1A, FOKODT244_1A, FOKODT244_2A, FOKOFK431_1A

Requirements for attendance, options for making up missed sessions, and method of absence justification:

Completion of the academic paperwork required to close the previous semester/fulfill prerequisites. Completion of prerequisite courses. Wearing work attire and a proper name tag in accordance with regulations during practical training. Students confirm their attendance by signing the attendance sheet, which is countersigned by a physician. Students record the tasks completed during the practical session and their attendance on the attendance sheet/work log. Maximum allowable absences from practical sessions according to the TVSZ (25%). Minimum 70% of the practical workload must be verified as completed. Absences from practical sessions may be made up by attending another practical session, which must be arranged in advance with the instructor.

Attendance at lectures is not mandatory but strongly recommended for the successful mastery of the course material. **Proof of absence from classes and the exam:** Medical certificate, hospital discharge summary, or, if applicable, proof of participation in a scientific conference, in accordance with the provisions of the TVSZ.

Assessment methods during semester (number, topics, and dates of midterms and reports, method of inclusion in the course grade, opportunities for make-up and improvement of marks):

(number, topics, and dates of midterms and reports, method of inclusion in the course grade, opportunities for make-up and improvement of marks)

Midterm exam: 10-15 multiple-choice questions, minimum score of 60%. Grading: pass/fail – as far as I know, this is no longer in use

Achieving a score of 75% on the tests taken during lectures. A short test consisting of 5 state exam questions must be completed during every lecture.

Clinical practice: daily verification of meeting the minimum professional requirements, confirmed by the daily attending physician's signature on the log sheet. A missed clinical day may be made up on another day after consultation, with the permission of the attending specialist or the lead instructor
Make-up/correction: taking the test is mandatory; it may be made up once at a time specified by the course instructor

Number and type of individual assignments to be completed, submission deadlines:

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Requirements for the successful completion of the course:

Participation in practical sessions (a maximum of 3 absences is permitted; this is a minimum requirement for signing off on the course and receiving a practical grade). Successful completion of the Week 13 test (with a minimum score of 60%) is also a requirement for signing off on the course at the end of the semester.

Completion of 75% of the tests written during lectures. A short test consisting of 5 state exam questions must be written during every lecture.

Attendance at lectures is not mandatory in accordance with the Study and Examination Regulations (hereinafter referred to as TVSz), but it is strongly recommended for the successful mastery of the course material.

Type of assessment:

comprehensive examination

Exam requirements (list of topics, topics of the test exam, and the optional project topics accepted as an exam)

Written and oral assessment of the course material for Periodontology I-IV. Written exam: image diagnosis with 30 slides. (Diagnosis of images in test format). The minimum passing score for image diagnosis is 18 correct answers (60%).

Oral comprehensive exam: At the beginning of the exam, the student answers brief questions posed by the committee that test basic, essential knowledge that can be answered in a few words. If the student is unable to answer at least one of these immediate questions on the spot, they are not eligible to take the exam that day. After correctly answering these questions, the student draws 2 items from a list of 60.

Periodontology final exam topics

1. Macroscopic and microscopic anatomy of the gingiva
 2. Macroscopic-, microscopic anatomy and function of the attachment apparatus
 3. Normal macroscopic-, microscopic anatomy and function of the gingival sulcus
 4. Development of periodontal tissues and biology of the alveolar bone
 5. Normal defensive functions of periodontal tissues
 6. The mechanism of plaque and calculus accumulation
 7. Light-, and electron microscopic structure of the dental plaque
 8. Microbiology of supragingival dental plaque
 9. Microbiology of subgingival dental plaque, periopathogen microorganisms
 10. The experimental gingivitis model - Histology and immunology of initial gingivitis
 11. Histology and immunology of onset and developed gingivitis
 12. Histology and immunology of initial periodontitis
 13. The role of PMN leukocytes, monocytes and systemic factors in the pathomechanism of periodontitis
 14. The role of local factors in the pathomechanism of periodontitis; elimination of local plaque retentive factors
 15. Progression of the untreated periodontal disease
 16. Classification of periodontal diseases
 17. Clinical and subjective symptoms of plaque-induced gingivitis
 18. Gingivitis with systemic background and paired with deficiency diseases
 19. Connection of periodontitis and smoking
 20. The periodontal pocket as a focal infection (systemic connections of periodontitis)
 21. Non plaque-induced gingival diseases
 22. The role of attached gingiva in the mechanical defense of the periodontium
 23. Causes and consequences of gingival recession, tooth neck hypersensitivity
 24. Drug-induced gingival hyperplasia, pregnancy-associated gingivitis
 25. Chronic, adult periodontitis
 26. Microbiology, genetic and immune background of aggressive periodontitis
 27. Treatment of aggressive periodontitis
 28. Oral hygiene indexes
 29. Diagnosis of gingivitis, gingival indexes
 30. Periodontal indexes. Significance of CPITN/PSR/BPE index systems
 31. Periodontal clinical diagnostic parameters, radiology, furcation lesions
 32. Epidemiology of periodontal diseases
 33. Prevention of periodontal diseases
 34. Treatment of acute periodontal conditions
 35. Main phases of complex periodontal therapy
 36. Acquiring effective individual oral hygiene
 37. Professional oral hygiene, tools
 38. Chemical plaque-control and systemic antibiotic treatment
 39. Reevaluation after the professional oral hygiene phase
 40. Fundamentals of periodontal surgery, indications and contraindications
 41. The role of gingivectomy in contemporary periodontal surgery
 42. Apically repositioned flap surgical techniques and the treatment of severe horizontal bone loss
 43. The modified Widman flap
 44. Treatment options for vertical bone defects
 45. Healing and regenerative potential of different periodontal tissues
 46. Fundamentals and history of Guided Tissue Regeneration
 47. Classification of periodontal flaps, incisions and suture techniques in periodontal surgery
 48. Resorbable, and non-resorbable barrier membranes
 49. Biological and biochemical tissue regeneration (morphogenic proteins, enamel matrix derivate)
 50. Bone replacement grafts and autogenous bone in periodontal regeneration
 51. Mucogingival surgery, correction of recessions, the Miller classification
 52. Periodontal considerations in prosthodontics, correction of secondary occlusal trauma, grinding, and prosthetic rehabilitation
 53. Indications and technical possibilities of creating temporary and semipermanent splints
 54. Borders of endodonty and periodontology
 55. Periodontal maintenance and recall. Determinants of recall intervals. Criteria for successful periodontal treatment
 56. Connection between periodontology and orthodontics. Guidelines for orthodontic treatment of periodontally affected patients
 57. Alveolar ridge preservation
 58. The biological width around teeth and implants
 59. Aspects of implant placement in periodontally affected patients
- The definition of periimplant mucositis and periimplantitis. Treatment options

Clear, specific minimum requirements for assessment. (The list of mandatory concepts, parameters, diagrams, calculations, and practical skills required to obtain a passing grade, as well as the criteria for the completion and evaluation of project assignments accepted as

an exam.) A link published on the department's website referring to the minimum requirements of the course.

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Method and type of grading (Share of theoretical and practical examinations in the overall evaluation. Inclusion of the results in the end-of-term assessment. Possibilities of and conditions for offered grades.): (Share of theoretical and practical examinations in the overall evaluation, Inclusion of the results in the end-of-term assessment, Possibilities of and conditions for offered grades)

The student receives a separate grade for image diagnostics: The minimum for image diagnostics is 18 correct answers (60%); 18-21 = 2, 22-25 = 3, 26-27 = 4, 28-30 = 5
Answering the immediate questions is a requirement. The two exam sections are graded separately on a scale of 1-5; the final grade is the average of the three grades, and no single section may be failing.
Grade adjustments are not permitted.

Artificial intelligence systems used in the teaching of the subject and the manner of their application

The use of artificial intelligence is not permitted during mid-term examinations, written examinations and oral examinations. The use of electronic devices that can access artificial intelligence is not permitted during examinations.

Lecturers may use artificial intelligence in editing lectures and compiling test questions, while students are also permitted to use artificial intelligence during the academic period in order to master the course material. However, the use of artificial intelligence is prohibited in any type of examination. Violation of the provisions is considered illegal behavior, plagiarism, and in order to investigate it, responsibility for plagiarism during the existence of the student relationship must be investigated in student disciplinary proceedings.

Printed resources:

Required	No
Author	Lindhe J. (et al) (ed)
Title	Clinical Periodontology and Implant Dentistry 6th ed
Publisher	Blackwell
Year of publication	2016

Required	No
Author	ed. A. Sculean
Title	Periodontal Regenerative Therapy
Publisher	Quintessence
Year of publication	2010
Other/Comment	47-67.

Signature of habilitated instructor (course coordinator) announcing the course:

Signature of the director of the host institution:

Date of submission:
