

REQUIREMENTS

Faculty of Dentistry

Name of academic organisational unit: Department of Paedodontics and Orthodontics
Name of Subject: Orthodontics Type of Subject: clinical faculty, theory and practice code: FOKOGFK263 credits: autumn semester: 5, spring semester: 6
Subject Lecturer: Assoc. Prof. Dr. med habil Rózsa Noémi Katinka, MSc, PhD
<p>Purpose of the subject in relation to the goal of the program: The aim of studying Orthodontics is the acquirement of a sufficient theoretic and practical knowledge fulfilling the requirements set by the university and the government necessary to obtain a degree in dentistry. Students are expected to gain understanding through the attendance of lectures; supervised practical sessions within small groups; the study of textbooks and further recommended literature. Practical work, the treatment of patients, can only be started once the supervisor has tested and is satisfied with the student's theoretical knowledge.</p> <p>Practical work consists of patient treatments. It is divided into three parts:</p> <ol style="list-style-type: none">1. Demonstration: students observe the treatment given.2. Joint work: students work alongside the supervisor3. Independent work: treatment is given by the students, under strict supervision. <p>The orthodontic training provides students with a broad knowledge, specifically concentrating on the following fields:</p> <ol style="list-style-type: none">1. Aetiology2. Prevention3. Diagnostics4. Early treatment4. Most frequently used orthodontic appliances and treatment methods5. The relation of orthodontics with other fields of dentistry.6. Orthodontics in the XXI. century

Subject syllabus (preferably divided by weeks, numbered):**Fall semester:**

1. The subject, significance of orthodontics, its relation to caries and periodontal diseases
2. Historical survey of orthodontics. Classification and terminology of malocclusion
3. Diagnosis of malocclusions I.
4. Diagnosis of malocclusions II. X-ray diagnosis
5. Aetiology; hereditary and acquired anomalies. Functional anomalies.
6. The timing of the orthodontic treatment
7. Biomechanical principles of orthodontics. Possibilities of tooth movement.
8. Removable appliances I. Simple orthodontic appliances.
9. Removable appliances II. Functional appliances
10. Space gaining in orthodontics. Arch expansion and molar distalization
11. Elements of multiband/multibond appliances. Multibond technics I.
12. Multibond techniques II. Orthodontic wires and the phases of orthodontic treatment
13. Modern techniques in orthodontics: splint appliances
14. Aesthetics in orthodontics

Spring semester:

1. Possibilities of orthodontic prevention. Early treatment in orthodontics.
2. Normocclusion. Local and general anomalies.
3. Treatment of distocclusion.
4. Treatment of mesiocclusion
5. Extraction in orthodontics.
6. Complex treatment of orthodontic anomalies combined with missing teeth
7. Surgical-orthodontic treatments
8. Complex therapy of cleft lip and palate
9. Retention and relapse.
10. Side effects and complications of orthodontic treatment.
11. Adult orthodontic treatment.
- 12.. Interdisciplinary aspects of orthodontic treatment.
13. Digital techniques and workflow in orthodontics
14. Consultation

Attendance requirements and possibilities of making up for absence:

Students are required to attend practice sessions and midterm tests. The practical course of one semester cannot be recognised if a student is absent for more than 25% (more than 3) of the practice sessions. The missed practices can be retaken twice per semester.

Certification of absence from lessons and exams:

Every student has to sign his/her own attendance sheet which is certified by the supervisor's signature. Presence is required at a level of 75%. No more than three absences are permitted. Replacement of the missed practices is possible.

Mid-semester test and quiz topics, dates, absences and retaking of these tests:

Electronic midterm tests have to be completed once every semester. The test-paper is validated with a score over 50%.

There are two possibilities to retake an unsuccessful test.

During the practical courses the skills of the students are checked.
Criteria for the signature at the end of the semester (including the number and type of tasks to be completed individually by the student): 1. At least satisfactory results (2) on midterm tests. 2. Interest and participation shown during the practical courses (maximum 3 absences) 3. Students should attain a sufficient theoretical and practical knowledge fulfilling the requirements of the Department.
Possibilities of grade acquisition: Practical results determination: The average of the test-papers and the judgement of the practical performance determine the final score of the semester, (50-50%). When evaluating the final practical results, one unsatisfactory score leads to a not validated semester.
Type of exam: Autumn semester: practical grade Spring semester: practical grade, final oral exam
Exam requirements: Upon the completion of the 10th semester the students receive a grade based on their practical work and must sit a final verbal examination in which they are tested on two topics chosen randomly. The list of examination topics is available at the beginning of the 10th semester.
Application for exam: Neptun system
Modification of exam registration: Neptun system
Certification of absence from exams: In order to meet the requirements, students must comply with Examination Regulations.
List of textbooks, notes, study-aids and references: Required textbook: <ol style="list-style-type: none"> 1. Proffit, William R. - Fields, David W. – Larson, Brent - Sarver, David M.: Contemporary Orthodontics 2018, Mosby 2. Mitchell, Laura: An introduction to orthodontics, 2011, Oxford Recommended Textbook: <ol style="list-style-type: none"> 2. Graber, Vanarsdall: Orthodontics, Current Principles and Technics, Elsevier 2016.