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| **Syllabus** | | | | | | | | | | | | | | | | | | |
| **Description of the course** | | | | | | | | | | | | | | | | | | |
| **Module/course name** | | | | | **Orthodontics** | | | | | | | | **Group of specific learning outcomes** | | | | | |
| **Group code**  **F** | | **Group name** Clinical sciences | | | |
| **Faculty** | | | | | Faculty of Dentistry | | | | | | | | | | | | | |
| **Major** | | | | | Dentistry | | | | | | | | | | | | | |
| **Specialities** | | | | |  | | | | | | | | | | | | | |
| **Level of studies** | | | | | Uniform master's degree programme \*  1st Degree   2nd Degree   3rd Degree   Postgraduate studies  | | | | | | | | | | | | | |
| **Form of study** | | | | | full-time x extramural  | | | | | | | | | | | | | |
| **Year of studies** | | | | | IV | | | | | | **Semester:** | | | x winter  x summer | | | | |
| **Type of course:** | | | | | x obligatory   limited choice   free choice / optional | | | | | | | | | | | | | |
| **Type of course** | | | | | x major  basic | | | | | | | | | | | | | |
| **Language of instruction** | | | | |  Polish x English  Other | | | | | | | | | | | | | |
| \*mark as appropriate by changing  into **X** | | | | | | | | | | | | | | | | | | |
| **Number of hours** | | | | | | | | | | | | | | | | | | |
| Form of education | | | | | | | | | | | | | | | | | | |
| Unit teaching the course | | Lectures (L) | Seminars (SE) | Auditorium classes (AC) | | Major Non-clinical Classes (MC) | Clinical classes (S, CC, W) | Laboratory Classes (LC) | Classes in Simulated Conditions (CSC) | Practical Classes with Patient (PCP) | | Specialist Classes - master's degree studies (SCM) | Foreign Language Course (FLC) | Physical Education - mandatory (PE) | Vocational Practice (VP) | Self-Study (Time of student's own work) | E-learning (EL) | |
| **Winter semester:** | | | | | | | | | | | | | | | | | | |
|  | |  | **20** |  | |  | **30** |  |  |  | |  |  |  |  |  |  | |
|  | |  |  |  | |  |  |  |  |  | |  |  |  |  |  |  | |
| **Summer semester** | | | | | | | | | | | | | | | | | | |
|  | |  | **20** |  | |  | **30** |  |  |  | |  |  |  |  |  |  | |
|  | |  |  |  | |  |  |  |  |  | |  |  |  |  |  |  | |
| **Total per year:** | | | | | | | | | | | | | | | | | | |
|  | |  | **40** |  | |  | **60** |  |  |  | |  |  |  |  |  |  | |
|  | |  |  |  | |  |  |  |  |  | |  |  |  |  |  |  | |
| **Educational objectives:** (max. 6 items)   1. **Knowledge of normal occlusion at each stage of human development.** 2. **Getting to know the most frequently occurring malformative syndromes involved in the occurrence of disorders within the masticatory system.** 3. **Ability to distinguish between a norm and a pathology at different stages of human development and knowledge of the etiopathogenesis of these disorders** 4. **Getting to know orthodontic diagnostics according to Orlik-Grzybowska and AS, CK, Wermann-Proffit, and the ability to identify individual malocclusions according to Orlik-Grzybowska and AS, CK, Wermann-Proffit.** 5. **Ability to conduct an interview and a physical examination of the patient, make diagnostic impressions and analyse x-ray images.** 6. **Ability to make an orthodontic diagnosis.** | | | | | | | | | | | | | | | | | | |
| **Matrix of learning outcomes for the module/course in relation to the form of education and the methods of verifying the intended learning outcomes:** | | | | | | | | | | | | | | | | | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Number of learning outcome | Number of major learning outcome | Student who completes the module/course  has the knowledge of/knows how to/is capable of | Methods of verification o intended learning outcomes (forming and summarising) | Form of teaching  \*\* enter the symbol | | **W 01** | F.W1 | Describes the development of the masticatory system. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **W 02** | F.W1 | Knows the normal occlusions at different stages of life as well as derivations from the norm. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **W 03** | F.W2  F.W7  F.W18 | Has the ability to enumerate the etiopathogenetic factors of dental-occlusal disorders within the masticatory system. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **W 04** | F.W2 | Describes various malformative syndromes and indicates the reason for their occurrence. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **W 05** | F.W1 | Enumerates the types of dental-occlusal disorders of the masticatory system according to the taxonomy by Orlik-Grzybowska and AS, CK, Wermann-Proffit. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **W.06** | F.W21 | Knows the principles of radiological diagnosis in the field of dental-occlusal defects. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota |  | | W.07 | C.W5. | Knows the basics of disinfection, sterilisation and antiseptic procedures; (microbiology, microbiology of the oral cavity, all clinical dental instruments) | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **U 01** | F.U1  F.U2  F.U21 | Distinguishes dental-occlusion defects from normal changes at different stages of development. Has the ability to examine the patient:  interview, extraoral and intraoral examination. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **U 02** | F.U1  F.U2  F.U21 | Differentiates between patient profile types according to Schwarz, Izard and RiS, CK, Wetts. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **U 03** | F.U6  E. U4 | He can analyse models and radiological documentation of an RVG, a panoramic radiograph, a lateral image of the skull. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **U 04** | F.U3  F.U4 | Has the ability to identify the malocclusion occurring in the examined patient. Has the ability to provide the patient with information on the dental-occlusal disorders affecting him/her. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **U 05** | F. U13  F.U14  F.U15  G.U19  G.U39  G.U40  E. U1  E. U2  E.U17 | Makes a full orthodontic diagnosis and has the ability to confirm or rule out the influence of environmental factors on the aetiology of the disease. Runs medical documentation. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **K 01** | D.U13  D.U14 | Demonstrates responsibility for his/her own professional development and contribution to the further development of medical science; recognises his/her own diagnostic limitations and educational needs, and plans educational activities. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **K 02** | G.U16 | Has the ability to work in a team and lead a team in a dentist's office; is capable of working in a team of professionals, in a multicultural and multinational environment. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **K 03** | **K 03** | Introduces the principles of professional camaraderie and cooperation with representatives of other professions in the field of healthcare. | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | **K 04** | **K 04** | Respects medical confidentiality and patient rights | Forming methods:  - evaluation of student's activity in class  - evaluation of student's preparation for classes  - smaller tests throughout the course  Summarising methods:  - final test  - practical quota | S, CC, W | | \*\* L - lecture; SE - seminar; CA - auditorium classes; MC - major non-clinical classes; S, CC, W - clinical classes; LC - laboratory classes; SCM - specialist classess (master's degree); CSC - classess in simulated conditions; FLC - foreign language course; PCP - practical classes with a patient; PE - physical education (mandatory); VP - vocational practice; SS - self study | | | | | | Please mark with crosses on a scale of 1-3 how the above learning outcomes place your classes in the following categories: transfer of knowledge, transfer of skills, development of attitudes, e.g.:  Knowledge +++  Skills ++  Attitudes + | | | | | | **Student's amount of work (balance of ECT points): 2.5** | | | | | | **Student's workload**  (class participation, activity, preparation, examination etc.) | | | **Student Workload (h)** | | | 1. Contact hours | | | **75** | | | 2. Student's own work | | | 15 | | | Total student's workload | | | 90 | | | **ECTS points for the module/course** | | |  | | | Notes | | |  | | | **Course content:** (please enter keywords describing the topic of each session, categorised by the form of teaching, making sure that it translates into the intended learning outcomes) | | | | | | **Seminars:**  **1-2. Introduction to the course, requirements for completion, rules of procedure. Occupational health and safety rules for**  **working with orthodontic patients. Physical examination and analysis of the patient's medical history,**  **preparation of photographic documentation.**  **3-4. Development and growth of the masticatory system. Theories of craniofacial development.**  **5-6. Intraoral examination, facial and profile norms**  **7-8. Diagnosis and classification of malocclusion according to AS, CK, Wermann-Proffit. Malocclusion diagnostics according to**  **Orlik-Grzybowska**  **9-10. Occlusal and functional norms at different stages of ontogeny**  **11-12. X-ray diagnostics – RVG, computed tomography, teleroentgenogram of the head,**  **panoramic X-ray, bone age and dental age**  **13-14. Orthodontic biomechanics**  **15-16. Materials science in orthodontics**  **17-18. Removable braces**  **19-20. Fixed braces**  **21-22. Orthodontic-surgical interdisciplinary treatment**  **23-24. Orthodontic-prosthetic and orthodontic-periodontal interdisciplinary treatment**  **25-26. Treatment of cleft lip and cleft palate**  **27-28. Interdisciplinary treatment of congenital disorders**  **29-30. Final test**  **Classes:**   1. **Clinical classes with patients** 2. **Clinical classes with patients** 3. **Clinical classes with patients** 4. **Clinical classes with patients** 5. **Clinical classes with patients** 6. **Clinical classes with patients** 7. **Clinical classes with patients** 8. **Clinical classes with patients** 9. **Clinical classes with patients** 10. **Clinical classes with patients** 11. **Clinical classes with patients** 12. **Clinical classes with patients** 13. **Clinical classes with patients** 14. **Clinical classes with patients** 15. **Clinical classes with patients** 16. **Clinical classes with patients** 17. **Clinical classes with patients** 18. **Clinical classes with patients** 19. **Clinical classes with patients** 20. **Clinical classes with patients** 21. **Clinical classes with patients** 22. **Clinical classes with patients** 23. **Clinical classes with patients** 24. **Clinical classes with patients** 25. **Clinical classes with patients** 26. **Clinical classes with patients** 27. **Clinical classes with patients** 28. **Clinical classes with patients** 29. **Clinical classes with patients** 30. **Receiving credit for the class** | | | | | | **Other**   1. **FINAL TEST**   **DISCUSSION OF THE FINAL TEST RESULTS AND RESITS.** | | | | | | **Core literature:**  1.      An introduction to orthodontics -3rd  ed.- Laura Mitchell  2.      Orthodontics: Diagnosis and Management of malocclusion and dentofacial deformities  - Om Prakash Kharbanda  3.      Contemporary ortodontics / William R. Proffit with Henry W. Fields Jr. and James L. Ackerman [et al.]. - 3rd ed. - St. Louis : C. V. Mosby, 2000  **Supplementary literature and other teaching aids:**   1. Orthodontic materials: scientific and clinical aspects / [ed. by]  William A. Brantley, Theodore Eliades ; foreword by T. M. Graber. - Stuttgart:  Thieme, 2001 2. American Journal of Orthodontics 3. Angle Orthodontist 4. Dental and Medical Problems | | | | | | **Requirements regarding the teaching aids:**   1. Fully-fitted clinical room 2. Orthodontic of orthodontic technology 3. Multimedia projector | | | | | | **Prerequisites:**   1. **Completed course in preclinical dentistry** 2. **Completed course in normal anatomy** 3. **Completed course in functional disorders of the masticatory organ** | | | | | | **Requirements to pass the course:** (please define the form and conditions for passing the classes which fall within the scope of the module/course, the rules for allowing students to sit the final theoretical and/or practical exam, its form and the requirements that students must meet in order to pass it as well as criteria applicable to each grade)   1. Passing the seminars: oral assessment in class, passing the test 2. Passing the clinical classes: an oral or written assessment during individual classes (free response of multiple choice test) concerning the issues discussed within a given semester (arithmetic average of points received: 2-5 points) 3. Passing (meeting the quota within) the practical classes (arithmetic average of points received: 2-5 points) 4. A single-answer multiple choice test – 30 questions (maximum of 15 points) 5. In addition, it is possible to receive extra points for participation in the science club:    1. Presenting a poster at a congress – 2 points    2. Publication – 5 points   The resulting sum of points constitutes a component of the final grade received upon passing the exam in year V.  In order to obtain credit at the end of the academic year, students must receive at least 60% of the maximum number of points in classes and practical classes (quotas) as well as at least 60% (9 points) in the final test. | | | | | | | | | | | | | | | | | | | | | | | | |
| **Grade:** | | **Assessment criteria** (applies only to courses/modules ending with an exam) | | | | | | | | | | | | | | | | | |
| Very good  (5,0) | | More than 95% of the points received. | | | | | | | | | | | | | | | | | |
| Good plus  (4,5) | | 90%-95% of the points received | | | | | | | | | | | | | | | | | |
| Good  (4,0) | | 80%-90% of the points received | | | | | | | | | | | | | | | | | |
| Satisfactory plus  (3,5) | | 70%-80% of the points received | | | | | | | | | | | | | | | | | |
| Satisfactory  (3,0) | | 60%-70% of the points received | | | | | | | | | | | | | | | | | |
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| **Name and address of the module/course teaching unit, contact: telephone and e-mail address** …………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….……………………………..  **Coordinator / Person responsible for the module/course, contact: telephone and e-mail address:**  …………………………………………………………………………………………………………………………………………………………  **List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes**:  ………………………………………………………………………..……………………………………………………………………............  ……………………………………………………………………………….…………………………………………………………………..……   |  |  | | --- | --- | | **Date of Syllabus development** | **Syllabus developed by** | | ………………………………………….. | ……........................................... | | **Signature of the Head of Teaching Unit** | | | ……………....……………………………………………………………… | |   **Signature of the Faculty Dean** | | | | | | | | | | | | | | | | |
| ……………....……………………………………………………………… | | | | | | | | | | | | | | | | |
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