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| **Syllabus for academic year 2019/2020** |
| **Description of the course** |
| **Module/Course** | **Paediatric dentistry and preventive dentistry** | **Group of detailed education results**  |
| **Group code F** | **Group name** **VI- Clinical sciences, major-oriented** |
| **Faculty** | Faculty of Dentistry |
| **Major**  | Dentistry |
| **Specialties** | Paediatric dentistry and preventive dentistry |
| **Level of studies** | Uniform magister studies **X** \*1st degree studies 2nd degree studies 3rd degree studies postgraduate studies  |
| **Form of studies** | **X** full-time part-time |
| **Year of studies**  | V | **Semester** | **X** Winter Summer |
| **Type of course** | **X** obligatory limited choice free choice / elective  |
| **Course** | **X** major basic |
| **Language of instruction** |  Polish **X** English other |
| \* mark with an **X** |
| **Number of hours** |
| Form of education |
| Unit teaching the course | Lectures (L) | Seminars (SE) | Auditorium classes (AC) | Major Classes – not clinical (MC) | Clinical Classes (CC) | Laboratory Classes (LC) | Classes in Simulated Conditions (CSC) | Practical Classes with Patient (PCP) | Specialist Classes – magister studies (SCM) | Foreign language Course (FLC) | Physical Education obligatory (PE) | Vocational Practice (VP) | Self-Study (Student's own work) | E-learning (EL) |
| **Winter Semester** |
|  |  | **12** |  |  | **90** |  |  |  |  |  |  |  |  |  |
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| **Summer Semester** |
|  | **15** |  |  |  | **60** |  |  |  |  |  |  |  |  |  |
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| **TOTAL per year:** |
|  |  |  |  | **150** |  |  |  |  |  |  |  |  |  |
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| **Educational objectives** (max. 6 items)G 1. To familiarize students with the basic and specialized knowledge in the diagnosis and treatment of oral cavity diseases in children and adolescents. G 2. Preparing students to perform individual caries risk assessment, establishing the treatment plan and recommendations for the young patient. G3. Preparing students to perform restorative treatment of carious and non-carious hard dental tissues lesions as well as endodontic treatment of patients in the developmental age.G4. Preparing students for active participation in oral health promotion and formulation of preventive programmes. G5. Preparing students for diagnosing and treatment of dental developmental disturbances as well as diagnosing and treatment of dental traumatic injuries in children and adolescents.G6. Preparing students for management of dental anxiety and fear of a patient in developmental age. |
| **Education result matrix for module/course in relation to verification methods of the intended education result and the type of class** |
| Number of course education result  | Number of major education result  | Student who completes the module/course knows/is able to | Methods of verification of intended education results (forming and summarising) | Form of didactic class*\*\*enter the abbreviation* |
|  **W01** | **F.W.1** | To describe norms of occlusion and malocclusion in different stages of individual development  | Oral response (F),Test (S) | CK |
| **W 02** | **F.W.3** | To explain the principles of preventive-treatment procedures of oral diseases in different stages of individual development | Oral response (F) | CK |
| **W03** | **F.W.7** | To define the principles of management of carious and non-carious hard dental tissues lesions | Oral response (F), Test (S) | CK |
| **W04** | **F.W.7** | To describe the principles of management in dental traumatic injures | Oral response (F), Test (S) | CK |
| **W05** | **F.W.7** | To define symptoms of child’s abuse | Oral response (F), Test (S) | CK |
| **W06** | **F.W.13** | To define indications and contraindication for esthetic dentistry procedures | Oral response (F), Test (S) | CK |
| **W07** | **F.W.22** | To describe and understand the relationships between oral health status and systemic diseases | Oral response (F), Test (S) |  CK |
| **U01** | **F.U01.** | to perform and gather medical and dental history from the patient or the patient`s parents | Clinical assessment, observation | CK |
| **U02** | **F.U02.** | To perform clinical examination of the young patient and interpret the data | Clinical assessment, observation | CK |
| **U03** | **F.U03.** | To be able to explain the patient`s ailments to set the optimal method of treatment confirmed by a conscious consent | Clinical assessment, observation | CK |
| **U04** | **F.U07.** | To be able to present indications and contraindication for dental procedures | Clinical assessment, observation | CK |
| **U05** | **F.U08.** | To solve the problem of disease risk assessment and select of the optimal methods of oral disease prevention | Clinical assessment, observation | CK |
| **U06** | **F.U10.** | To perform treatment of dental caries, pulpal diseases and periapical diseases | Clinical assessment, observation | CK |
| **U07** | **F.U13.** | To use and perform the current documentation of the patient, referral for investigations or specialist medical and dental consultation | Clinical assessment, observation | CK |
| **K01** | **K01** | To cooperate in the group of professionals, in the environment multicultural and multinational | Summarizing methods:- constant evaluation by teacher (surveying)Shaping methods:- observation of student’s work- discussion during classes- opinions of colleagues | CK |
| **K02** | **K02** | To create rules of the professional comradeship and the cooperation with representatives of other health care professionals  | Summarizing methods:- constant evaluation by teacher (surveying)Shaping methods:- observation of student’s work- discussion during classes- opinions of colleagues | CK |
| **K03** | **K03** | To participate actively in oral health promotion  | Summarizing methods:- constant evaluation by teacher (surveying)Shaping methods:- observation of student’s work- discussion during classes- opinions of colleagues | CK |
| \*\* L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .  |
| Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:Knowledge: 5Skills: 5Social competences: 5 |
| **Student's amount of work (balance of ECTS points)** |
| **Student's workload** (class participation, activity, preparation, etc.) | **Student Workload (h)** |
|  | **Winter** | **Summer** |
| 1. Contact hours: | 102 | 75 |
| 2. Student's own work (self-study): Individual preparation for theoretical and practical classes (preparing of a project, documentation, case description, etc.). Individual preparation for credit tests/colloquia. Individual preparation for final exam/credit. | 58 | 15 |
| Total student's workload | 160 | 90 |
| **ECTS points for module/course** | 6 | 3 |
| Comments  |  |
| **Content of classes** (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects) |
| **Lectures** **Semester 10**

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| **No** | **Topic** |
| Lecture I | Developmental abnormalities of the dental hard tissue (disturbances of number, size, shape, structure, colour, ): aetiology, patomechanism, clinical presentation, differentiation and treatment procedures. |
| Lecture II | Developmental abnormalities of the dental hard tissue (disturbances of number, size, shape, structure, colour ): aetiology, patomechanism, clinical presentation, differentiation and treatment procedures – continuation.  |
| Lecture III | Children with systemic diseases – dental treatment procedures |
| Lecture IV | Oral health promotion, educational programs addressed to specific groups of children and adolescents. |
| Lecture V | New trends in Pediatric Dentistry |

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| **Seminars****Semester 9**

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| **No.** | **Topic** |
| **1.** | Development of the deciduous and permanent teeth (stages and time of eruption; resorption of deciduous teeth; mechanism, terms and stages of development the roots of deciduous and permanent teeth (apexogenesis). 2. Disturbances in eruption: systemic and local, types and timing of abnormalities. |
| **2.** | 1**.** Traumatic teeth injuries: etiology, classifications, clinical interview, examination. 2. Traumatic injuries of deciduous teeth: epidemiology, etiology, symptoms, examination, diagnosis, treatment procedure, prognosis, complications; the influence of deciduous teeth injuries on permanent teeth development. |
| **3.** | 1.Traumatic injuries of permanent teeth: epidemiology, etiology, clinical symptoms, examination, treatment procedures, prognosis, complications; treatment procedures – clinical cases. |
| **4.** | **1.** Prevention of teeth’s injuries, risk factors and risk group (standard and individual splints). Differentiation between accidental and intended dental injuries (abused child). Treatment procedures of the abused children. **2.** Autotransplantion – choice of the patient and tooth, treatment procedures, prognosis. **3.** Radiology regarding post-traumatic injuries. |

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| **Practical classes****Semester 9**

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| **No.** | **Practical classes** |
| **1** | **I** 1. Development of the deciduous and permanent teeth (stages and time of eruption; resorption of deciduous teeth; mechanism, terms and stages of development the roots of deciduous and permanent teeth (apexogenesis). 2. Disturbances in eruption: systemic and local, types and timing of abnormalities. 3. Anatomy and histology of deciduous and immature permanent teeth; specific anatomical features of the deciduous and permanent teeth and their therapeutic implications **(ABCDEF).** |
| **2** | **Repetition test from 4th year (**condition of admission to clinical classes): early childhood caries (ECC), caries of immature permanent teeth, caries prevention – oral hygiene, fluoride prophylaxis: home and professional, pulp diseases of deciduous and immature permanent teeth, gingivitis and periodontitis in children **(ABCDEF).** |
| **3** | **II** 1. Traumatic dental injuries: etiology, epidemiology, classification; interview, extra and intraoral examination of patient after trauma, radiological examination. 2. Management of traumatic dental injuries. **(ABCDEF).** |
| **4** | **III** 1.Traumatic injuries of deciduous teeth: types, interview, clinical and radiological examination, treatment, prognosis, control visit. 2. Prevention of traumatic dental injures (**ABCDEF).** |
| **5** | **IV** 1.Traumatic injuries of immature permanent teeth: types, clinical and radiological examination, treatment, prognosis, control visit. 2. Consequences of traumatic dental injuries (**ABCDEF).** |
| **6** | **V** Surgical procedures of patients in developmental age; indications, contraindications, consequences. Antibiotic therapy in dental treatment of children. **(CD).** |
| **7** | **VI** Physiological regulation of calcium-phosphate metabolism.Disorders of calcium-phosphate metabolism with particular emphasis on changes in the masticatory system (hypocalcemia, hypercalcemia, hypophosphatemia, hyperphosphatemia) **(C).** |
| **8** | **Test from topics: I, II, III, IV (ABCDEF)** |
| **9** | **V** Surgical procedures of patients in developmental age; indications, contraindications, consequences. Antibiotic therapy in dental treatment of children. **(ABEF).** Examination and treatment of patients **(CD).** |
| **10** | **VI** Physiological regulation of calcium-phosphate metabolism.Disorders of calcium-phosphate metabolism with particular emphasis on changes in the masticatory system (hypocalcemia, hypercalcemia, hypophosphatemia, hyperphosphatemia) **(ABDEF).**Examination and treatment of patients **(C)** |
| **11** | **VII** 1. Pathological changes in oral cavity; types, differentiation (lesions on the soft mucosa, hypertrophic changes, changes of salivary glands), clinical symptoms, therapeutic procedures **(ABCDEF**). |
| **12** | **Essay from topics: V, VI, VII (ABCDEF)** |
| **13** | **VIII, IX 1**. Pharmacological premedication, analgesic treatment in children. **2** . Oral sedation (“conscious sedation”), intravenous sedation, deep sedation, inhalation sedation with nitrous oxide. **3**. General anaesthesia in developmental age. **4.** Local anaesthesia in developmental age; indications, contraindications, technique, doses, types of solutions, local and general complications **(ABCDEF).**  |
| **14** |  **Test from topics: VIII, IX (ABCDEF)** |
| 15 | **Final test from 9 semester for completing the course (ABCDEF)** Make up of backlog. Credit of subject (9 semester)  |

**Practical classes****Semester 10**

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| **No.** | **Practical classes** |
| 1 | I. 1. Pro-health education in dental practice, oral hygiene and dietary recommendations in specific developmental periods. 2. Analysis of the dietary record. 3. Home and professional prophylaxis depending on the risk of caries. |
| 2 | II. Diagnostic methods of dental caries: qualitative, quantitative, ICDAS system, radiological methods. |
| 3 | III. 1. Non-operative treatment. 2. Operative treatment of caries (MID M*inimal Intervention Dentistry*, techniques of reconstruction of hard dental tissues, discarding,, application of povidone iodine, treatment of deep caries, temporary ITR therapy, reconstruction with steel crowns.  |
| 4 | IV. Minimal invasive caries treatment (fissure sealing, PRR1, PRR2,caries infiltration, ART, chemo-mechanical, air abrasion, laser, sound and ultrasound technique). |
| 5 | Crediting test from topics I – IV. |
| 6 | V. Developmental defects of the dental hard tissue concerning the number and anatomical structure: clinical symptoms, differentiation and treatment procedures. |
| 7 | VI. Developmental defects of the dental hard tissue caused by environmental and genetic factors; teeth discoloration, developmental defects of dentin and cementum, clinical symptoms, differentiation, treatment procedures. |
| 8 | VII. Non-bacterial loss of hard dental tissues (abrasion, attrition, demastication, abfraction, erosion). Prevention of non-bacterial loss of dental tissues. |
| 9 | Crediting essay from topics: V- VII  |
| 10 | VIII. Swelling in the face area (cysts, abscesses, oedema), history, clinical picture, examination, additional tests, differential diagnosis, treatment, recommendations.  |
| 11 | IX. Infectious diseases in developmental age (clinical symptoms in oral cavity) – viral, bacterial, fungal (Candida albicans) infections, non-infectious changes, allergies, drug-induced changes). |
| 12 | X.1. Dental treatment in children with systemic diseases (heart disease, bleeding disorders, immune disorders, kidney, liver, respiratory diseases - asthma, nervous system, diabetes, gastroesophageal reflux disease, hyperthyroidism and hypothyroidism, adrenal diseases, neoplastic diseases. 2. Dental preparation for transplants 3. Children of special care, abuse child. |
| 13 | Crediting essay from topics: VIII – X  |
| 14 | Semestral test – topics I –X |
| 15 | Make up of backlog. Credit of subject (10 semester). |

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| **Other** |
| **Basic literature** (list according to importance, no more than 3 items)1. Cameron AC, Widmer RP: Handbook of paediatric dentistry. 4th ed. Mosby, St Louis 2013
2. Koch G, Poulsen S: Paediatric dentistry - a clinical approach. Blackwell Munksgaard, 2009.
3. Welbury RR, Duggal MS, Hosey M-T: Paediatric dentistry. Oxford: Oxford University Press, 2005

**Additional literature and other materials** (no more than 3 items)1. Andreasen JO, Bakjland LK, Flores MT, Andreasen FM, Andreasen L: Traumatic dental injures.  A manual. 20112. Scully C, Welbury R: Color Atlas of Oral Diseases in Children and Adolescents. Wolfe Publishing, 20013. McDonald RE, Avery DR, Dean JA: Dentistry for the Child and Adolescent, Elsevier 2011 |
| **Didactic resources requirements** (e.g. laboratory, multimedia projector, other…)multimedia projector, intraoral camera, computer, local internet network, models |
| **Preliminary conditions** (minimum requirements to be met by the student before starting the module/course)To be admitted to the 5th year classes student is required to pass the test summarizing knowledge of the subject from the 4th year, held at the end of 8 semester. |
| **Conditions to receive credit for the course** (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be med by the student to pass it and criteria for specific grades)Forms of completing the course: Credit form: theoretical knowledge and practical skills: final test, partial tests and essay, obligatory practical procedures.**Credit conditions:**1. students have a right to be absent on 10% practical classes in the semester according to Student’s Statutory (absence on more than 10% classes should be fulfilled with the tutor in the last week of the semester)2. theoretical knowledge should be credited with positive mark with the tutor3. practical skills should be credited on positive mark with the tutor4. implementation of clinical procedures 5. students are obliged to prepare and present all seminars’ topics (Power Point  presentation)**Passing the course** requires passing all (100%) of practical/clinical procedures.  "Conditional credit" can be obtained in case of successful realization of 90% of  procedures. All procedures which were not realized during regular course should be  fulfilled before final examination of a Conservative Dentistry course. This  examination takes place at 5th year of the study. The last practical class is devoted to fulfil all theoretical and practical goals and  objectives which were not realized during regular courses. In case of failing to  pass all required goals and objectives of the course after the last course - student will  receive "conditional credit" with a deadline to fulfil all areas ordinated by Dean. **Number of treatment procedures on 5th year (in both semesters):*** investigation (filled in questionnaire, treatment plan) - at each new patient
* hygienic & dietetic instruction (presentation) - at each new patient
* cavities preparations and fillings (decidous and immature permanent teeth)- 18:

1-surface -82-surfaces -53 and more surfaces -5- endodontic treatment of deciduous and immature permanent teeth – 3 (5 root canals) - radiological interpretation - 4 ;- minimum two-time assistance during clinical procedures *It is obligatory to use dental clothes, dental mask and dental gloves !***DIPLOMA EXAM REGULATIONS** **The final examination after the 10th semester of 5th year consists of two parts: practical and theoretical. Both parts of the exam are treated synonymously, i.e. the exam must be awarded at least a satisfactory grade for each part of the examination, and admission to the second part of the examination is conditioned by the first part.** **1. Practical –** clinical interview, clinical examination, diagnosis, treatment planning, preventive recommendations, performing the clinical procedure. **2. Theoretical -** test consist of 100 questions. Conditions for passing: 70 % of correct answers. |
| **Grade:** | **Criteria** (only for courses/modules ending with an examination) |
| Very Good(5.0) | achievement of learning outcomes covering all relevant aspects |
| Good Plus (4.5) | achievement of learning outcomes covering all relevant aspects with some errors or inaccuracies |
| Good(4.0) | achievement of intended learning outcomes, with omitting some of the less important aspects |
| Satisfactory Plus (3.5) | achievement of intended learning outcomes, with omitting some important aspects or significant inaccuracies |
| Satisfactory (3.0) | achievement of intended learning outcomes, with omitting some important aspects or serious inaccuracies |
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| **Name and address of module/course teaching unit, contact: telephone and e-mail address**Dept. Of Conservative Dentistry and Pedodontics, Medical University of Wroclawul.Krakowska 26 , WrocławTel.: (71) 784 0361, fax (71)784 03621 stomzach@umed.wroc.pl**Coordinator / Person responsible for module/course, contact: telephone and e-mail address**Prof. Urszula Kaczmarek, DDS, PhD Tel.: (71) 784 0361 urszula.kaczmarek@umed.wroc.pl**List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes**.Research and didactic workers employed in the Chair and Department of Conservative Dentistry and Pedodontics, with respective professional and research competences in the fields mentioned previously. Joanna Kobierska-Brzoza, PhD Dentistry, dentist classesKowalczyk-Zając Małgorzata, PhD Dentistry, dentist classesAgnieszka Czajczyńska-Waszkiewicz, DDS Dentistry, dentist classesDagmara Piesiak-Pańczyszyn, DDS Dentistry, dentist classesMarta Berdzik-Janecka, DDS Dentistry, dentist classesAgnieszka Urbańska, DDS Dentistry, dentist classes

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| **Date of Syllabus development**  | **Syllabus developed by**  |
| 20.06.2019 | Agnieszka Czajczyńska-Waszkiewicz, DDS ……........................................... |
| **Signature of Head of teaching unit** |
| ……………....……………………………………………………………… |

**Signature of Faculty Dean**  |
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