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| **Syllabus for academic year 2018/2019** |
| **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**  | IV | **Semester** | **X** Winter**X** 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** |  |  | **30** |  |  |  |  |  |  |  |  |  |
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| **Summer Semester** |
|  | **15** |  |  |  | **30** |  |  |  |  |  |  |  |  |  |
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| **TOTAL per year:** |
|  | **15** | **12** |  |  | **60** |  |  |  |  |  |  |  |  |  |
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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 teeth development and morphology of teeth, periodontal tissues and mucosa | Oral response (F), Test (S) | SE, CC |
| **W02** | **F.W.3** | To explain the principles of preventive-treatment procedures of oral diseases in different stages of individual development  | Oral response (F) | L, SE, CC |
| **W03** | **F.W.7** | To define the principles of management of carious and non-carious hard dental tissues lesions | Oral response (F), Test (S) | L, SE, CC |
| **W04** | **F.W.7** | To describe the principles of management in dental traumatic injures | Oral response (F), Test (S) |  SE, CC |
| **W05** | **F.W.8** | knows the principles of management in pulp diseases and periapical diseases | Oral response (F), Test (S) | L, SE, CC |
| **W06** | **F.W.13** | To define indications and contraindication for esthetic dentistry procedures | Oral response (F), Test (S) | L, SE, CC |
| **W07** | **F.W.14** | To describe and understand the relationships between oral health status and systemic diseases | Oral response (F), Test (S) |  SE, CC |
| **U01** | **F.U01.** | to perform and gather medical and dental history from the patient or the patient`s parents | Clinical assessment, observation |  SE, CC |
| **U02** | **F.U02.** | To perform clinical examination of the young patient and interpret the data | Clinical assessment, observation | L, SE, CC |
| **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 | CC |
| **U04** | **F.U07.** | To be able to present indications and contraindication for dentistry procedures | Clinical assessment, observation | CC |
| **U05** | **F.U08.** | To solve the problem of disease risk assessment and select of the optimal methods of oral disease prevention | Clinical assessment, observation | SE, CC |
| **U06** | **F.U10.** | To perform treatment of dental caries, pulpal diseases and periapical diseases | Clinical assessment, observation | CC |
| **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 |  CC |
| **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 |  SE, CC |
| **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 |  CC |
| **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 | SE, CC |
| \*\* 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: 4 |
| **Student's amount of work (balance of ECTS points)** |
| **Student's workload** (class participation, activity, preparation, etc.) | **Student Workload (h)** | **Summer** **apprenticeship (h)** |
|  | **Winter** | **Summer** |
| 1. Contact hours: | 42 | 45 | 15 |
| 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. | 48 | 5 | 0 |
| Total student's workload | 90 | 50 | 15 |
| **ECTS points for module/course** | 3 | 1,5 | 0,5 |
| 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 8

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| **No** | **Lectures topics** |
| **1** | Developmental abnormalities of the dental hard tissue (disturbances of number, size, shape, structure, colour, ): aetiology, patomechanism, clinical presentation, differentiation and treatment procedures. |
| **2** | Developmental abnormalities of the dental hard tissue (disturbances of number, size, shape, structure, colour ): aetiology, patomechanism, clinical presentation, differentiation and treatment procedures – continuation.  |
| **3** | Children with systemic diseases – dental treatment procedures |
| **4** | Oral health promotion, educational programs addressed to specific groups of children and adolescents. |
| **5** | New trends in paediatric dentistry. |

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| **Seminars**Semester 7

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| **No** | **Topics of seminars** |
| **1** | 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; treatment procedures – clinical cases. |
| **2** | 1. Traumatic injuries of permanent teeth: epidemiology, etiology, clinical symptoms, examination, treatment, prognosis, complications; treatment procedures – clinical cases. 2. Autoreplantation – selection of patient and tooth, treatment procedure, prognosis. |
| **3** | 1. Prevention of teeth’s injuries, risk factors and risk group (standard and individual splints).  2. Differentiation between accidental and intended dental injuries (abused child). Treatment of the abused children. |
| **4** |  1. Gingivitis in children and teenagers - etiology, clinical symptoms, classification, diagnosis, and treatment. Incorrect attachment of fraenulum of the tongue and lip – treatment procedures. 2. Periodontitis in children and teenagers – etiology, clinical symptoms, classification, diagnosis, treatment procedures and complications; the inflammatory periodontal diseases induced by systemic diseases and drugs. 3. Oral mucous lesions in children and teenagers – clinical manifestations, therapeutic methods. |

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| **Practical classes**Semester 7

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| No | Topics of practical classes |
| 1 | **I.** 1.Oral health promotion. 2. Pro-health education of pregnant women and children in different stages of developmental age. Conservative dental treatment of the patients. |
| 2 | **Repetition test of theoretical knowledge from 3rd year.** 1. Child’s first visit in the dental office. 2. Decidous and immature permanent teeth: development, anatomy, histology, dental caries, pulp diseases. Conservative dental treatment of the patients. |
| 3 | **II.**  Traumatic teeth injuries: etiology, clinical interview, clinical and radiological examination, classification, schedule of follow- up visits, dental trauma prevention.Conservative dental treatment of the patients. |
| 4 | **III.**  Traumatic teeth injuries: therapeutic procedures in different types of teeth injuries, prognosis, complications. Conservative dental treatment of the patients. |
| 5 | **Crediting essay from topics: I-III (Traumatic teeth injuries)**Conservative dental treatment of the patients. |
| 6 | **IV.** Gingivitis and periodontitis in children and teenagers – clinical interview, examination, evaluation of periodontium and oral cavity hygiene, types of X-rays, treatment procedures, prognosis.Conservative dental treatment of the patients. |
| 7 | **Crediting essay from topic IV** Conservative dental treatment of the patients. |
| 8 | **Repetition of knowledge gathered during practical classes –presentation of clinical cases.** Conservative dental treatment of the patients. |
| 9 | **Final crediting test from 7th semester.** Conservative dental treatment of the patients. |
| 10 | Make up of backlogs.Conservative dental treatment of the patients. |

Semester 8

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| No | **Subject** |
| 1 | **I.** 1.Caries prevention in children (prenatal, perinatal, postnatal).2.Transmission of cariogenic bacteria, the window of infectivity, reducing the level of bacteria in the oral cavity. 3.Cariogenicity of carbohydrates. 4.Oral cavity hygiene in children and adolescents - toothpaste, toothbrush, additional aids.Conservative dental treatment of the patients. |
| 2 | **II.** 1. The role of fluoride in dental caries prevention: mechanisms of action of fluoride, fluoridation methods, fluoride compounds; endogenous and exogenous fluoridation schemes 2.Fluoride toxicology: toxic doses, dental fluorosis. Conservative dental treatment of the patients.  |
| 3 | **III.** Physiological regulation of calcium-phosphate metabolism.Disorders of calcium-phosphate metabolism with particular emphasis on changes in the masticatory system. Conservative dental treatment of the patients. |
| 4 | **Crediting essay from topics: I-III** Conservative dental treatment of the patients. |
| 5  | **IV**. 1.Radiology in the developmental age: types of projections, radiographic examination in different periods of masticatory system development. 2.Radiological protection in developmental age Conservative dental treatment of the patients |
| 6 | **V**. 1. Surgical treatment of patients in developmental age, indications, contraindications, consequences. 2. Antibiotic therapy in dental treatment of children. Conservative dental treatment of the patients. |
| 7 | **VI.** 1.Local anesthesia in developmental age (techniques, doses, medications).2. General anesthesia in developmental age (indications, scheme of oral cavity sanation under general anesthesia).Conservative dental treatment of the patients. |
| 8 | **Crediting essay from topics: IV-VI**Conservative dental treatment of the patients. |
| 9 | **Final test from 8th semester**Conservative dental treatment of the patients. |
|  10 | Make up of backlogs. Conservative dental treatment of the patients. |

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| **Basic literature** (list according to importance, no more than 3 items)1. Cameron A.C., Widmer R.P.: Handbook of pediatric dentistry. 3rd ed. Mosby, St. Louis 2013
2. Koch G., Poulsen S.: Pediatric dentistry: a clinical approach. Blackwell Munksgaad, Iowa 2009
3. Welbury R.R., Duggal M.S., Hosey M.T.: Pediatric dentistry. 3rd ed. Oxford University

Press, Oxford 2005**Additional literature and other materials** (no more than 3 items)1. Andreasen J.O., Bakland L.K., Flores M.T., Andreasen F.M.: Traumatic dental injures.

Manual. 2011 2. Scully C., Welbury R.: A color atlas of orofacial health and disease in children and adolescents:  diagnosis and management. 20013. McDonald R.E., Avery D.R., Dean J.A.: Dentistry for the child and adolescent. Elsevier 2011 |
| **Didactic resources requirements** (e.g. laboratory, multimedia projector, other…)multimedia projector, intraoral camera, local internet network, models |
| **Preliminary conditions** (minimum requirements to be met by the student before starting the module/course)Student is admitted to 4th year classes after successful completion of the final test summarizing knowledge of the subject from the 3rd year, held at the end of the 6th 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)**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 marks (essays)3. 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 Pediatric Dentistry course. This examination takes place  at 5th year of the study.  The last practical class is devoted to fulfill 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 fulfill all areas ordinated by Dean. **Treatment procedures on 4th year (both semesters):*** investigation (filled in questionnaire, treatment plan) - 5 and at each new patient
* hygienic & dietetic instruction (presentation) - 5 and at each new patient
* preparing of the preventive indications - 2
* fluoride and chlorhexidine varnishes - 5
* placing of fissure sealants – 4
* impregnation – 5
* cavities preparations and fillings (decidous and immature permanent teeth)- 15: 1-surface x 8; 2-surfaces x 4; 3 and more surfaces x 3
* post traumatic crown reconstruction – 1
* endodontic treatment (decidous and immature permanent teeth )- 2
* interpretation of 2 radiograms
* assisting – 2

**The final examination after the 5th year -- the clinical practical exam and theoretical test and essay.** **1. Practical exam –**clinical interview, clinical examination, treatment plan, preventive recommendations,  performance of clinical procedure **2. Theoretical exam -** test and essayFinal exam grade contains:

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| **Paediatric dentistry and preventive dentistry** | **Mean value of grades from III, IV,V year** |  **Practical exam**  **grade** |  **Test grade** | **Essey grade** |
|  |  0.3 |  0.1 |  0.3 |  0.3 |

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| **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 0362; email: 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. Prof. Urszula Kaczmarek, DDS, PhD Dentistry, dentist seminars, lecturesJoanna Kobierska-Brzoza, PhD Dentistry, dentist seminarsIwona Przywitowska, BDS Dentistry, dentist seminars, classesDagmara Piesiak-Pańczyszyn,BDS Dentistry, dentist seminars, classes Kowalczyk-Zając Małgorzata, PhD Dentistry, dentist classes Marta Berdzik-Janecka, BDS Dentistry, dentist classes

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| **Date of Syllabus development**  | **Syllabus developed by**  |
| 20.06.2018 |  Agnieszka Czajczyńska-Waszkiewicz, BDS |
| **Signature of Head of teaching unit** |
| ……………....……………………………………………………………… |

**Signature of Faculty Dean**  |
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