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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**  | III | **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** |
|  |  | **30** |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Summer Semester** |
|  |  |  |  |  | **60** |  |  |  |  |  |  |  |  |  |
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| **TOTAL per year:** |
|  |  | **30** |  |  | **60** |  |  |  |  |  |  |  |  |  |
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| **Educational objectives** (max. 6 items)**G1.** To familiarize students with the basic and specialized knowledge in the diagnosis and treatment of oral cavity diseases in children and adolescents.**G2.** 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 for patients in the developmental age.**G4**. Preparing students for active participation in oral health promotion and formulation of preventive programmes.  |
| **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) | 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) | SE, CC |
|  **W04** | **F.W.13** | To define indications and contraindication for esthetic dentistry procedures | Oral response (F), Test (S) | SE, CC |
| **W05** | **F.W.17** | To define the techniques of shaping child`s behaviour and attitude to dental treatment | Oral response (F) | SE, CC |
|  **W06** | **F.W.22** | To describe and understand the relationships between oral health status and systemic diseases | Oral response (F), test (P) | SE, CC |
|  **U01** | **F.U01** | to perform and gather medical and dental history from the patient or the patient`s parents | Clinical assessment, observation |  CC |
| **U02** | **F.U02.** | To perform clinical examination of the young patient and interpret the data | Clinical assessment, observation | 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 | 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 | SE, 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: 4Social competences: 5 |
| **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: | 30 | 60 | 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. | 30 | 30 | 0 |
| Total student's workload | 60 | 90 | 15 |
| **ECTS points for module/course** | 2 | 3 | 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** |
| **Seminars**Designed students are obliged to prepare presentation (orally and in electronic form) . The presentation on CD should be deposited for assessment by tutor after the seminar. The competence of scheduled material will be verified in the form of test or essay at the end of each seminar and during the classes.**Semester 5**1. Verbal and non-verbal communication with the child in developmental age. The triade: dentist-parent-child. Methods of adaptation to the dental environment and procedures: behavioral, non-pharmacological (presence vs absence of parents, protective stabilization and immobilization) and pharmacological methods (sedation, general anesthesia). Child’s behaviour at the dental surgery with regard to developmental stage. Factors which may influence behavior of the child, dental fear of the mother and child, classification of the child’s behaviour at the dental surgery. Explanation of the patient form with all oral indices.
2. Development of the deciduous and permanent teeth; stages and time of eruption; resorption of deciduous teeth. Mechanism, terms and stages of root development of deciduous and permanent teeth (apexogenesis) . Disturbances in eruption: systemic and local factors, types and timing of abnormalities.
3. Anatomy and histology of deciduous and permanent immature teeth; specific; anatomical features of the deciduous and permanent teeth, therapeutic implications (1h). Dental radiology in pediatric dentistry: general rules, types of radiograms used in diagnostics and treatment in children; interpretation of the radiograms of patients in developmental stage.
4. Caries of deciduous teeth - early childhood caries ECC, epidemiology, definition , classifications, major aetiological and predisposing factors, caries risk evaluation, preventive measures, specificity of the cavity preparation, Types of restorative materials used in deciduous teeth, restoration of anterior and posterior deciduous teeth, factors contributing the selection of restorative material with regard to caries advancement and the age of patient; atraumatic restorative technique – ART.
5. Caries of immature permanent teeth; factors predisposing to caries development on occlusal surfaces in permanent teeth, diagnostics, evaluation of caries lesion advancement; selection of most appropriate therapeutic methods; prevention of caries in erupting first molars; sealing the pits and fissures, indication, contraindications, selection of the material; minimal invasive treatment: preventive restorative PRR type 1 and 2, principles of the preparation the cavity, restorative materials; selection of the mode of preparation and restorative material regarding to the advancement of the lesion.
6. Pulp diseases of deciduous teeth (etiology, symptomatology, classification, diagnosis, treatment (methods, medicaments and materials used in endodontic treatment of deciduous teeth) complications during and after treatment, prognosis.
7. Pulp diseases of immature permanent teeth (etiology, symptomatology, classification, diagnosis), treatment (methods, medicament and materials used in endodontic treatment of immature permanent teeth), complications during and after treatment, prognosis. Apexification and apexogenesis.
8. Individual prevention, current concept : primary prevention and traditional prevention (prenatal, natal, postnatal). Transmission of cariogenic bacteria, “windows” of infectivity, reduction of cariogenic bacteria.Cariogenic

 potential of carbohydrates.(9) Oral hygiene – procedures and agents. Toothpaste: the composition, properties, types, types of  toothbrushes and indications, methods for teeth, tongue and interdental spaces cleaning, effectiveness. Child’s first dental visit (standard course). Oral pro health education of pregnant women.  Mother’s and child’s motivation for healthy attitudes.(10) The role of fluoride in oral health promotion. Methods of fluoride use in caries prevention - effectiveness. Cariostatic mechanisms of fluoride. Acute and chronic fluoride intoxication - clinical symptoms, diagnosis  and therapeutic and prevention procedures. |
| **Practical classes****Semester 6**

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| No | **Practical classes** |
| 1 | Clinical examination of patient. Patient form: medical and dental history, extra and intraoral examination, oral indices. |
| 2 | Examination and treatment of the patient. |
| 3 | Assessment of child's behavior (tests) in dental office. Promoting and difficulties factors. Behavioral methods shaping the child's behavior in the dental office. Pharmacological methods (sedation, general anesthesia). Examination and treatment of the patient. |
| 4 | **I essay – Topic 1,3** Examination and treatment of the patient. |
| 5 | Development of deciduous and immature permanent teeth in the aspect of the child's biological and calendar age. Disturbances in eruption. Anatomy and histology of deciduous and immature permanent teeth; specific anatomical features of the deciduous and permanent teeth and their therapeutic implications. Different types of radiograms used in diagnostics and treatment of children. Examination and treatment of the patient. |
| 6 | **II Essay – Topic 5**Examination and treatment of the patient.  |
| 7 | Examination and treatment of the patient. |
| 8 | **III Essay – Topic 6**Caries of deciduous teeth - early childhood caries ECC, severe early childhood caries S-ECC, epidemiology, definition, classifications, major etiological and predisposing factors, caries risk evaluation, preventive measures, specificity of the cavity preparation, factors contributing the selection of restorative materials, atraumatic restorative technique – ART. Caries of immature permanent teeth; factors predisposing to the development of caries on occlusal surfaces in permanent teeth, diagnostics, evaluation of caries lesion advancement; selection of most appropriate therapeutic methods. Fissure sealing - indication, contraindications, selection of the material; preventive restorative PRR type 1 and 2, principles of the preparation the cavity, restorative materials; selection of the preparation technique and restorative material regarding to the advancement of the lesion.Examination and treatment of the patient. |
| **9** | **III essay – Topic 8**Examination and treatment of the patient. |
| **10** | Pulp diseases of deciduous teeth (etiology, symptomatology, classification, diagnosis, treatment (methods, medicaments and materials used in endodontic treatment of deciduous teeth) complications during and after treatment, prognosis. Examination and treatment of the patient. |
| **11** | **IV essay – Topic 10**Examination and treatment of the patient. |
| **12** | Pulp diseases of immature permanent teeth (etiology, symptomatology, classification, diagnosis), treatment (materials and methods); complications during and after treatment, prognosis. Apexification, apexogenesis, revascularization. Examination and treatment of the patient. |
| **13** | **V essay – Topic 12**Examination and treatment of the patient.  |
| 14 | **Final test from the 5 and 6 semester.** |
| **15** | Make up of backlog. Credit of subject (6 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. Mc Donald RE Avery DR, Dean JA: Dentistry for a child and adolescent Elsevier 2011
2. Pinkham JR Casamassimo PS: Paediatric dentistry: Infancy through Adolescence 4 th, 2005
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| **Didactic resources requirements** (e.g. laboratory, multimedia projector, other…)multimedia projector, computer, local internet network, intraoral camera, models |
| **Preliminary conditions** (minimum requirements to be met by the student before starting the module/course)Student is admitted to 3rd year classes after successful completion of the 2nd  year. |
| **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.**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 the 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. **Treatment procedures on 3rd year (both semesters):*** 8 cavities preparations and fillings (1-surface:4, 2-and more surfaces:4)
* investigation (filled in questionnaire, treatment plan) - at each new patient
* hygienic & dietetic advisory (presentation) at each new patient
* fluoride and chlorhexidine varnishes – 5
* interpretation of the radiogram 4
* prophylaxis 5
* fissure sealing – 5
* impregnation – 1
* assisting – 2

**The final examination after the 5th year -- the clinical practical exam and theoretical test and essay.**

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| **Paediatric dentistry and preventive dentistry** | Mean value of grades from IV,V year |  Practical exam |  Test  | Essey |
|  |  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 26Tel.: (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, 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 - seminarsMarta Berdzik-Janecka, BDS Dentistry, dentist seminarsJoanna Kobierska-Brzoza, PhD Dentistry, dentist- classesKowalczyk-Zając Małgorzata, PhD Dentistry, dentist seminars, classesAgnieszka Czajczyńska-Waszkiewcz,BDS Dentistry, dentist seminars, classesDagmara Piesiak-Pańczyszyn, BDS Dentistry, dentist seminars, classesIwona Przywitowska, BDS Dentistry, dentist seminars, 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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