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| **Syllabus for academic year 2014/2015** |
| **Part A - Description of the subject of education**  |
| **Name of module/course** | **Paediatric dentistry with dental prevention** | **Group of specific learning outcomes**  |
| **Group code** **F** | **Group name** **VI - Clinical sciences, major-oriented** |
| **Department** | Faculty of Dentistry |
| **Field of study**  | Dentistry |
| **Specialities** |  |
| **Level of study** | Long-cycle studies **X** \*1st cycle 2nd cycle 3rd cycle postgraduate  |
| **Form of studies** | full-time **X** part-time  |
| **Year of studies** | III | Semester | 5,6 |
| **Type of course** | mandatory **X** optional  |
| **Rank of course** | principal **X** basic  |
| **Language of instruction** | Polish English **X** other  |
| \* mark as appropriate changing into **X** |
| **Form of education** | **Number of hours** |
|  | **Sem 5** | **Sem 6** |
| Lectures (WY) |  |  |
| Seminars (SE) | 21 | 9 |
| Auditorium classes (CA) |  |  |
| Major classes - non-clinical (CN) |  |  |
| Clinical classes (CK) | 30 | 30 |
| Laboratory classes (CL) |  |  |
| Specialist - master's classes (CM) |  |  |
| Simulated classes (CS) |  |  |
| Language courses (LE) |  |  |
| Practical classes with patient (PP) |  |  |
| Physical education classes - mandatory (WF) |  |  |
| Professional training (PZ) |  |  |
| Self-education |  |  |
| Other |  |  |
| **In total** | **51** | **39** |
| **Educational goals:** 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.  |
| **Matrix of learning outcomes for module/course in relation to methods of verification of intended learning outcomes and form of classes:**  |
| The number of core education outcome | The number of major education outcome | Student who passes the module/course has the knowledge of/knows how to/is capable of  | Methods of verification of intended learning outcomes achievement (forming and summary)  | Form of classes\*\* enter the symbol  |
|  **W01** |  **F.W.1** | To describe teeth development and morphology of teeth, periodontal tissues and mucosa | Oral response (F), Test (S) | SE, CK |
|  **W02** | **F.W.1** | To describe norms of occlusion and malocclusion in different stages of individual development  | Oral response (F), Test (S) | SE, CK |
|  **W03** | **F.W.3** | To explain the principles of preventive treatment procedures of oral diseases in different stages of individual development  | Oral response (F) | SE, CK |
|  **W04** | **F.W.7** | To define the principles of management of carious and non-carious hard dental tissues lesions | Oral response (F), Test (S) | SE, CK |
| **W05** | **F.W.7** | To describe the principles of management in dental traumatic injures | Oral response (F), Test (S) | SE, CK |
|  **W06** | **F.W.17** | knows the symptoms of abused child  | Oral response (F), Test (S) | SE, CK |
|  **W07** | **F.W.8** | knows the principles of management in pulpal diseases and periapical diseases | Oral response (F), Test (S) | SE, CK |
|  **W08** | **F.W9** | knows teeth morphology and the principles of endodontic treatment as well as endodontic instruments  | Oral response (F), Test (S) | SE, CK |
|  **W09** | **F.W.13** | To define indications and contraindication for esthetic dentistry procedures | Oral response (F), Test (S) | SE, CK |
|  **W 10** | **F.W.17** | To define the techniques of shaping child`s behaviour and attitude to dental treatment | Oral response (F) | SE, CK |
|  **U01** | **F.U01** | to perform and gather medical and dental history from the patient or the patient`s parents | Clinical assessment, observation | SE, CK |
| **U02** | **F.U02.** | To perform clinical examination of the young patient and interpret the data | Clinical assessment, observation | SE, 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 dentistry 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 | SE, 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 | Observation | SE, CK |
| **K02** | **K02** | To create rules of the professional comradeship and the cooperation with representatives of other health care professionals  | Observation | CK |
| **K03** | **K03** | To participate actively in oral health promotion  | Clinical observation  | SE, CK |
| \*\*WY - lecture; SE - seminar (SE); auditorium classes - CA; CN - principal classes (non-clinical); CL - laboratory classes; CN - specialist (master's) classes; CS - simulated classes; LE - language courses; PP - practical classes with patient; WF - physical education classes (mandatory); PZ - professional training; SK - self-education  |
| Put a cross on a 1 to 3 scale to mark how the above outcomes categorize your classes in terms of knowledge, skills and attitudes e.g.: Knowledge + + + Skills + ++Attitudes + ++ |
| **Student's workload (the ECTS credit balance):**  |
| **Form of student's workload**(attendance, initiative, preparation to classes, verification etc.) | **Student's workload (h)**  |
|  | **Sem 5** | **Sem 6** |
| 1. Contact hours  | 51 | 39 |
| 2. Time dedicated to student's own work  | 40 | 51 |
| Total student's workload  | 91 | 90 |
| **The ECTS credits per module/subject**  | 3 | 3 |
| Remarks  |  |  |
| **Classes content:** (please put down the classes subject matter in a concise form with the consideration of the form of classes and bearing in mind the fact that the subject matter should translate into the intended learning outcomes)  |
| **Seminars****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 development the roots 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 the development of caries 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.

**Semester 6**1. 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.1. Oral hygiene – agents. Toothpaste: the composition, properties, types, types of toothbrushes and indica-

tions, methods for teeth, tonque 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.1. 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.  |
| **Classes****Semester 5:**1. Clinical examination of the patient: medical and dental history, extraoral and intraoral examination. Seminar topic No1
2. Diagnosis, treatment plan, examination and treatment of the patient. Seminar topic No2
3. Examination and treatment of the patient. Seminar topic No3
4. Examination and treatment of the patient. Seminar topic No 4
5. Examination and treatment of the patient. Seminar topic No 5
6. Test of seminars topics No 1-5. Examination and treatment of the patient
7. Examination and treatment of the patient. Seminar topic No 6
8. Examination and treatment of the patient. Seminar topic No 7
9. Test of seminars topics No 6,7. Examination and treatment of the patient
10. Make up of backlog. Credit of subject (5th semester)

**Semester 6:** 1. Clinical examination of the patients. Seminar topic No1
2. Examination and treatment of the patient. Seminar topic No2
3. Examination and treatment of the patient. Seminar topic No3
4. Examination and treatment of the patient. Test of seminars topics No 1-3.
5. Examination and treatment of the patient. Radiology in developmental age: types of projection. Radiographic pictures in dependence of the age. Radiological protection in developmental age.
6. Examination and treatment of the patient. Local anaesthesia in developmental age ( methods of anaesthesia, local anaesthetic agents, doses).General anaesthesia in developmental age (indications, scheme of oral cavity sanation). Nitrous oxide sedation.
7. Examination and treatment of the patient. Physiological regulation of calcium-phosphates metabolism. Disturbances of calcium-phosphate metabolism with their specific impact on the masticatory system.
8. Examination and treatment of the patient. Repetition from clinical topics based on the clinical cases.
9. Examination and treatment of the patient. Final test from the 6th semester
10. Make up of backlog. Credit of subject (6th semester)
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| **Other:** |
| **Core literature:** (according to relevance, no more than three titles)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.

**Supplementary literature and other aids** (no more than three titles)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.
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| **Requirements regarding teaching aids:** (e.g. laboratory, multimedia slide projector, other)multimedia projector, intraoral camera, models |
| **Initial conditions:** (minimal conditions to be fulfilled be a student before signing up for the module/course)Student is admitted to 3rd year classes after successful completion of the 2nd  year. |
| **Terms of passing a given course:** (please define the form and terms of passing given classes falling within the scope of the module/course, rules for allowing students to sit final theoretical and/or practical exam, its form and requirements that students must meet in order to pass it as well as criteria applicable to each grade) The excused absence - the duty of the abandoned classes execution above 10% ( acc. to the Study regulation)The absence in the seminary - the credit of material termly 2 weeks The periodic control of the knowledge during and after the end of the thematic module. The admission to the credit takes place on the basis of obtainments of standard norm of dental procedures and the test- and oral checking of the theoretical knowledge.**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
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| **Grade:** | **Criterion for assessment:** (applies only to courses/modules ending with an exam) |
| 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 |
| excellent(4,0) | achievement of intended learning outcomes, with omitting some of the less important aspects |
| fairly good (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 |

**Name and address of the unit in charge of module/course, contact (phone number and email address)**

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**A list of persons giving particular classes including: full name, degree/academic or professional title, field of science, profession, form of classes**

Prof. Urszula Kaczmarek, DDS, PhD Dentistry, dentist - seminars

Joanna Kobierska-Brzoza, PhD Dentistry, dentist- classes

Dagmara Piesiak-Pańczyszyn,BDS Dentistry, dentist classes

Kowalczyk-Zając Małgorzata, PhD Dentistry, dentist classes

Bogna Kłaniecka, BDS Dentistry, dentist classes

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| **Prepared by:** | **Revised by:** |
| Agnieszka Czajczyńska-Waszkiewicz, BDS15.10.2014 | Katarzyna Jankowska, PhD  |
| **Signature of the Head of unit in charge of classes**  |
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