



Syllabus for academic year 2020/2021														
training cycle: Major														
Description of the course														
Module/Course	Paediatric dentistry and preventive dentistry													
Faculty	Faculty of Dentistry													
Major	Dentistry													
Specialties	Paediatric dentistry and preventive dentistry													
Level of studies	Uniform magister studies <input checked="" type="checkbox"/> * 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/>													
Form of studies	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time													
Year of studies	IV						Semester	<input checked="" type="checkbox"/> Winter <input checked="" type="checkbox"/> Summer						
Type of course	<input checked="" type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective													
Course	<input checked="" type="checkbox"/> major <input type="checkbox"/> basic													
Language of instruction	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> English <input type="checkbox"/> other													
* mark <input type="checkbox"/> 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 (SC)	Foreign language Course (ELC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
Winter Semester														
		21			60									
Summer Semester														
		21			60									
TOTAL per year:														
		42			120									
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 <i>**enter the abbreviation</i>
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	<u>Summarizing methods:</u> - constant evaluation by teacher (surveying) <u>Shaping methods:</u> - 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	<u>Summarizing methods:</u> - constant evaluation by teacher (surveying) <u>Shaping methods:</u> - observation of student`s work - discussion during classes - opinions of colleagues	CC



K03	K03	To participate actively in oral health promotion	<u>Summarizing methods:</u> - constant evaluation by teacher (surveying) <u>Shaping methods:</u> - observation of student's work - discussion during classes - opinions of colleagues	SE, CC
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** 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: 5
 Skills: 5
 Social 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:	81	81	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.	24	24	0
Total student's workload	105	105	15
ECTS points for module/course	3,5	3,5	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)

Seminars
Semester 7

No	Topics of seminars
1	1. Communication with a patient in developmental age- verbal and non-verbal age; triad doctor-parent-child



	<p>2. Methods of child adaptation to dental treatment: behavioural, non-pharmacological techniques: communication, presence vs. absence of parents, protective stabilization and immobilization and pharmacological: sedation, general anesthesia</p> <p>3. Behaviour of a child in a dental office in the aspect of individual development, factors affecting behaviour - dental fear of mother and child, classification of child's behaviour in a dental office</p>
2	<p>2. Development of milk and permanent teeth (phases and time of eruption; resorption of milk teeth, eruption mechanism, eruption periods; root development phases (apexogenesis). 2. Eruption disorders (local, general, places and time of eruption). 3. Anatomy and histology of milk teeth and permanent immature (differences in the structure of milk and permanent teeth, therapeutic aspect)</p>
3	<p>1. Dental caries in milk dentition - early childhood caries (ECC), epidemiology, definition, classification, main etiological and disposition factors; determining the risk of dental caries)</p> <p>2. Preventive procedures, specificity of cavity preparation, materials for filling of the deciduous teeth, reconstruction of the anterior and lateral milk teeth, factors determining the selection of the restorative material in the aspect of advancement of carious lesion and age of the patient, atraumatic reconstructive treatment (ART, IRT technique).</p>
4	<p>1. Dental caries of immature permanent teeth; factors determining the development of caries on the chewing surfaces of permanent teeth, diagnostics, evaluation of the severity of carious lesions in the aspect of the choice of therapeutic treatment</p> <p>2. Protection against decay of eruptive first molars; sealing of furrows and wells - indications and contraindications, choice of material. Minimally invasive treatment: preventive filling - PRR type 1 (extended sealing) and type 2 (preventive filling), cavity preparation, filling materials; selection of the method of developing the cavity and restorative material in the aspect of the advancement of the lesion.</p>
5	<p>1. The first visit of a child in the dental office, date and course</p> <p>2. Pro-health education of pregnant women</p> <p>3. Motivation for mother and child's healthy attitudes</p>
6	<p>1. Caries prevention in children (prenatal, perinatal, postnatal).</p> <p>2. Transmission of cariogenic bacteria, the window of infectivity.</p> <p>3. Cariogenicity of carbohydrates. Reducing the level of bacteria in the oral cavity.</p>
7.	<p>1. Oral hygiene - pastes, rinses - composition, properties, types, brushes and indications, brushing techniques, cleansing the tongue, cleansing the brows, checking the effectiveness of brushing. 2. Fluoride prophylaxis- professional and home.</p>

Seminars

Semester 8

No	Seminars topics
1	<p>1. Pulp diseases of milk teeth: etiopathogenesis, symptomatology, classifications, diagnostics. treatment and</p> <p>Drugs and materials in endodontic treatment of milk teeth. Complications during and after treatment, prognosis.</p>
2	<p>2. Pulp diseases of immature permanent teeth: etiopathogenesis, symptomatology, classifications, diagnostics, treatment and prognosis</p>



	Drugs and materials used in endodontic treatment Complications during and after treatment Apexification and apexogenesis
3	3. Traumatic dental injuries: etiology, epidemiology, classification of dental trauma, interview, clinical examination, radiological examination. 2. Rules of conduct in traumatic injuries.
4	4. Post-traumatic injuries of primary teeth: frequency, causes, symptoms, diagnostics, therapeutic procedures, prognosis, control visits schedule, complications; impact of injuries on permanent tooth buds. Schedule of follow-up visits. Prevention of traumatic tooth injuries.
5	5. Injuries of permanent teeth - frequency, causes, symptoms, examination, therapeutic procedure, prognosis, post-traumatic complications; presentation of therapeutic management of clinical cases. Prevention of post-traumatic tooth injuries.
6	6. 1. Injury prevention, risk factors and groups (standard and individual splints) 2. Differentiation of accidental and intentional injuries (abused child), management of suspected child abuse 2. Autotransplantation - selection of patient and tooth, prognosis progression. 3. Radiology regarding post-traumatic injuries.
7	7. Periodontal and gingival disease in developmental age, clinical examination, periodontal and hygiene assessment (indicators: BPE - basic periodontal examination, GI-gingival index, PII - plaque index, Api - approximated index, GOI - gingival overgrowth index, additional radiological tests), therapeutic treatment, prognosis.
Practical classes Semester 7	
No	Topics of practical classes
1	I. Communication with a patient in developmental age (verbal and non-verbal, physician-parent-child triad) Methods of adapting the child to dental treatment: behavioral, non-drug, communication (presence vs. no parents), protective (stabilization and immobilization) and pharmacological (sedation, general anesthesia) Behavior of a child in a dental office in the aspect of individual development, factors affecting behavior - dental fear of mother and child, classification of child's behavior in a dental office Discussing the patient's card with particular emphasis on oral indicators.
2	II. Development of milk and permanent teeth (phases and time of eruption; resorption of milk teeth, eruption mechanism, eruption periods; root development phases (apexogenesis). 2. Eruption disorders (local, general, places and time of eruption). 3. Anatomy and histology of milk teeth and permanent immature (differences in the structure of milk and permanent teeth, therapeutic aspect)
3	Crediting essay from topics: I-II - TEST
4	III. Dental caries in milk dentition - early childhood caries (ECC), epidemiology, definition, classification, main etiological and disposition factors; determining the risk of dental caries) Preventive procedures, specificity of cavity preparation, materials for filling of the deciduous teeth, reconstruction of the anterior and lateral milk teeth, factors determining the selection of the restorative material in the aspect of advancement of carious lesion and age of the patient, atraumatic reconstructive treatment (ART technique).
5	IV. Tooth decay of immature permanent teeth; factors determining the development of caries on the chewing surfaces of permanent teeth, diagnostics, evaluation of the severity of carious lesions in the aspect of the choice of therapeutic treatment



	Protection against caries from erupting first molar teeth; sealing of furrows and wells - indications and contraindications, choice of material. Minimally invasive treatment: preventive filling - PRR type 1 (extended sealing) and type 2 (preventive filling), cavity preparation, filling materials; selection of the method of developing the cavity and restorative material in the aspect of the advancement of the lesion.
6	Crediting essay from topic III-IV - TEST
7	V. 1. The first visit of a child in the dental office, date and course 2. Pro-health education of pregnant women 3. Motivation for mother and child's healthy attitudes
8	VI.1. Caries prevention in children (prenatal, perinatal, postnatal). 2. Transmission of cariogenic bacteria, the window of infectivity. 3. Cariogenicity of carbohydrates.
9	VII. Oral cavity hygiene in children and adolescents - toothpaste, toothbrush, additional aids.
10	VIII. Caries risk assessment, definition, estimation methods (CAMBRA, CRA, Cariogram), indicators of oral hygiene, saliva testing parameters using tests.
11	Crediting essay from topic V-VIII – TEST
12	IX. 1. The role of fluoride in dental caries prevention: mechanisms of action of fluoride, fluoridation methods, fluoride compounds; 2. Fluoride toxicology: toxic doses, dental fluorosis. Safety of using fluorine compounds.
13	X. Non-fluoride methods for the prevention of dental caries (arginine, probiotics, calcium-sodium phosphosilicate, the complex of phosphopeptide casinate and amorphous calcium phosphate, xylitol, chlorhexidine).
14	Crediting essay from topic IX-X – TEST
15	Final crediting test from 7th semester.

Semester 8

No	Topics of practical classes
1	I. Pulp diseases of milk teeth: etiopathogenesis, symptomatology, classifications, diagnostics. treatment and Drugs and materials in endodontic treatment of milk teeth. Complications during and after treatment, prognosis.
2	II. Treatment - drugs and materials used in endodontic treatment of milk teeth. Complications during and after treatment, prognosis.
3	III. Pulp diseases of immature permanent teeth: etiopathogenesis, symptomatology, classifications, diagnostics, treatment and prognosis Drugs and materials used in endodontic treatment Complications during and after treatment
4	IV. Treatment - medicines and materials used in endodontic treatment Complications during and after treatment Apexification and apexogenesis
5	Crediting essay from topics: I-IV Conservative dental treatment of the patients.



6	V. Traumatic dental injuries: etiology, epidemiology, classification of dental trauma, interview, clinical examination of the patient after extraoral and intraoral injury, radiological examination. 2. Rules of conduct in traumatic injuries.
7	VI. Injuries of milk teeth: types of damage, clinical and radiological examination, therapeutic procedure in particular types of damage, prognosis, follow-up visits.
8	VII. Injuries of permanent immature teeth: types of damage, clinical and radiological examination, therapeutic procedure in particular types of damage, prognosis, follow-up visits.
9	VIII. 1. Consequences of post-traumatic injury 2. Prevention of traumatic teeth injury
10	Crediting essay from topics: V-VIII
11	XI. Periodontal and gingival disease in developmental age, clinical examination, periodontal and hygiene assessment (indicators: BPE - basic periodontal examination, GI-gingival index, PII - plaque index, Api - approximated index, GOI - gingival overgrowth index, additional radiological tests), therapeutic treatment, prognosis.
12	Crediting essay from topic IX- TEST
13	X. Dental radiology in pediatric dentistry: general information, types of X-rays used in the diagnosis and treatment of children, radiological interpretation of X-rays in developmental age. Radiological image at various stages of masticatory organ development Principles of radiological protection in the developmental age.
14	Crediting essay from topic X- TEST
15	Final test from 8th semester

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 Munksgaard, 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 injuries. Manual. 2011
2. Scully C., Welbury R.: A color atlas of orofacial health and disease in children and adolescents: diagnosis and management. 2001
3. 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 met by the student to pass it and criteria for specific grades)

Credit conditions:

1. students have to attend on 100% practical classes in the semester according to Student's Statutory
2. theoretical knowledge should be credited with positive marks (essays)
3. practical skills should be credited on positive mark with the tutor
4. 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 ordained 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 (deciduous and immature permanent teeth)- 8
- post traumatic crown reconstruction – 1
- endodontic treatment (deciduous and immature permanent teeth)- 2
- interpretation of 2 radiograms
- assisting – 2

*It is obligatory to use dental clothes, dental mask and dental gloves !
The use of cellular phones during whole clinical class or seminar is strictly.*

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

Name and address of module/course teaching unit, contact: telephone and e-mail address:

Dept. Of Conservative Dentistry and Pedodontics, Medical University of Wrocław

ul. Krakowska 26, Wrocław

Tel.: (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. Maciej Dobrzyński , DDS , Phd , tel.71 7840361 , mail. maciej.dobrzynski@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

Iwona Przywitowska, PhD

Dentistry, dentist

seminars, classes

Dagmara Piesiak-Pańczyszyn, DDS

Dentistry, dentist

seminars, classes

Kowalczyk-Zajac Małgorzata, PhD

Dentistry, dentist

classes

Marta Berdzik-Janecka, DDS

Dentistry, dentist

classes

Martina Gutbier, DDS

Dentistry, dentist

classes



Date of Syllabus development

20.06.2020

Syllabus developed by

Agnieszka Czajczyńska-Waszkiewicz, DDS

Signature of Head of teaching unit

.....Prof.Maciej Dobrzyński

Signature of Faculty Dean

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