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Syllabus for academic year 2021/2022 Education cycle: 2018/2019-2022/2023														
Description of the course														
Subject name	Paediatric Dentistry and Preventive Dentistry										Group of specific learning outcomes			
											Group class (code of the group) F	Group name Directional clinical sciences (Practical)		
Faculty	Faculty of dentistry													
Field of studies	Dentistry													
Level of studies	X Uniform magister studies													
Form of studies	X full-time X part-time													
Year of studies	V										Semester	X winter X summer		
Type of course	X obligatory													
Language	X English													
Number of hours														
Form of education														
	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)	Foreign language Course (FLC)	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)	
Winter Semester:														
Dept. of Paediatric Dentistry and Preclinical Dentistry														
Direct Education					30									
Distance Education														
Summer Semester:														
Dept. of Paediatric Dentistry and Preclinical Dentistry														
Direct education					60									
Distance education	15													
Total per year:														
Dept. of Paediatric Dentistry and Preclinical Dentistry														

Direct contact education					90							
Distance education	15											

Educational objectives

- C1. Preparing students to perform individual caries risk assessment, establishing the treatment plan and recommendations for young patients.
- C2. Preparing students to perform restorative treatment of carious and non-carious hard dental tissue lesions as well as endodontic treatment of patients in the developmental age.
- C3. To familiarize students with the implications of dental treatment in a patient with systemic diseases.
- C4. To familiarise students with diagnosing and treating developmental malformations of the dentition as well as post-traumatic lesions of patients in the developmental age.
- C5. Preparing students for active participation in oral health promotion and formulation of preventive programmes.
- C6. Preparing students for management of dental anxiety and fear of a patient in developmental age.

Learning outcomes for the subject in relation to the methods of verifying the intended learning outcomes and the form of carrying out the classes

Number of detailed learning effect	Student who completes the course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class *
F.W2.	Knows and describes the principles of prophylactic and therapeutic procedures in diseases of the masticatory system at different stages of the development	Obtaining formulation marks in each practical class and passing the MCQ summary test (S)	SE,CC
F.W4.	Knows and describes the symptoms, course and procedures in specific diseases of the oral cavity, head and neck, taking into account age groups;		
F.W5.	Knows the rules of conduct in the case of diseases of the pulp, mineralized tissues of teeth and injuries of teeth and bones of the face;		SE,CC
F.W6.	Knows the rules of conduct in the case of diseases of the periapical tissues;		SE,CC
F.W7.	Knows the morphology of the pulp of teeth, the principles of endodontic treatment and instruments used in this treatment;		SE,CC
F.W12.	Knows the causes of complications of the stomatognathic system diseases and the rules of conduct in the event of such complications;		SE,CC
F.W20.	Knows the pathomechanism of the impact of general diseases or applied therapies in the oral cavity;		SE,CC
F.U1.	Performs a medical interview with the patient or their family;		Realization of given task and completion of procedures
F.U2.	Performs a dental physical examination of the patient;	Realization of given task and completion of procedures	CC
F.U3.	Applies the ability to explain the essence of the patient's symptoms, determines the treatment method by confirmed and conscious consent of the	Realization of given task and completion of	CC

	patient's and prognosis of the treatment;	procedures	
F.U6.	Can interpret the results of additional tests and consultations;	Realization of given task and completion of procedures	CC
F.U7.	Can determine indications and contraindications to perform a specific procedure dental;	Realization of given task and completion of procedures	SE,CC
F.U11.	Applies the ability to keep current patient records, issue a referral for additional tests or specialized dental and general medical treatment;	Realization of given task and completion of procedures	CC,VC
F.U14.	Can assess the risk of caries using bacteriological tests and saliva tests;	Realization of given task and completion of procedures	CC
F.U15.	Is able to establish treatment in diseases of the stomatognathic system tissues;	Realization of given task and completion of procedures	CC
K01	Cooperates in a group of professionals, critically evaluates their own and co-workers' actions while respecting the differences in worldview and culture	<u>Summarizing methods:</u> - constant evaluation by the teacher (observation) <u>Shaping methods:</u> - observation of student's work	SE,CC
K02	Forms opinions on various aspects of professional activity and seeking expert advice in case of difficulties in solving problems on their own	<u>Summarizing methods:</u> - constant evaluation by the teacher (observation) <u>Shaping methods:</u> - observation of student's work	SE,CC

L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; 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.

Student's amount of work (balance of ECTS points)

Student's workload (class participation, activity, preparation, etc.)	Student Workload
1. Hours in direct contact:	90
2. Hours of distance learning:	15
3. Student's own work (self-study):	90
4. Guided self-study hours:	-

Total student's workload:	195
ECTS points for the course:	7
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)	
<p>Lectures (5x3h)</p> <p><u>Lecture 1</u> - Developmental abnormalities of teeth (disturbances in number, size, shape, structure, colour): etiology, pathomechanism, clinical presentation, differentiation and treatment procedures.</p> <p><u>Lecture 2</u> - Continuation of developmental abnormalities of teeth (disturbances in number, size, shape, structure, colour): etiology, pathomechanism, clinical presentation, differentiation and treatment procedures.</p> <p><u>Lecture 3</u> - Children with systemic diseases – dental treatment procedures</p> <p><u>Lecture 4</u> - Oral health promotion, educational programs addressed to specific groups of children and adolescents.</p> <p><u>Lecture 5</u> New trends in paediatric dentistry</p>	
<p>Practical Classes – Winter Semester (10x3h):</p> <p><u>Practical Class 1</u> – Discussion of topic I - Pro-health education in dental practice, oral hygiene and dietary recommendations in specific developmental periods. Analysis of dietary records. Home and professional prophylaxis depending on the risk of caries. Safety of fluoride prophylaxis - Performing clinical procedures.</p> <p><u>Practical Class 2</u> - Repetition test (1) 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- Performing clinical procedures.</p> <p><u>Practical Class 3</u> – Discussion of topic II - Diagnostic methods of dental caries: qualitative, quantitative, ICDAS system, radiological methods. - Performing clinical procedures.</p> <p><u>Practical Class 4</u> – Discussion of topic III - Non-invasive treatment. Operative treatment of caries - MID (Minimal Intervention Dentistry), techniques of reconstruction of hard dental tissues, disking, application of povidone iodine, treatment of deep caries, temporary ITR therapy, reconstruction with steel crowns. - Performing clinical procedures.</p> <p><u>Practical Class 5</u> – Discussion of topic IV - Minimally invasive caries treatment (fissure sealing, PRR1, PRR2, caries infiltration, ART, chemo-mechanical, air abrasion, laser, sound and ultrasound techniques). - Performing clinical procedures.</p> <p><u>Practical class 6</u> - Credit test from topic I to IV – 10 questions. - Performing clinical procedures.</p> <p><u>Practical class 7</u> – Discussion of topic V - Pathological changes in the oral cavity; types, differentiation (lesions on the soft mucosa, viral, bacterial, fungal) clinical presentation, treatment, differentiation - Performing clinical procedures.</p> <p><u>Practical Class 8</u> – Discussion of topic VI - Swelling in the region of face (cysts, abscesses, oedema), medical history, clinical presentation, examination, additional tests, differential diagnosis, treatment, recommendations. - Performing clinical procedures.</p> <p><u>Practical Class 9</u> - Credit test from topic V and VI – 10 questions.</p>	

- Performing clinical procedures.

Practical Class 10

- Final crediting test of the 9th semester from topic I to VI – 20 questions

- Performing clinical procedures.

Practical Classes – Summer Semester (15x3h):

Practical Class 1 – Discussion of topic I

- Developmental defects of the dental hard tissues concerning the number and anatomical structure, clinical presentation, differentiation, treatment

- Performing clinical procedures.

Practical Class 2 – Discussion of topic II

- Developmental defects of the enamel caused by environmental and genetic factors; teeth discolorations. Developmental defects of the dentine and cementum, clinical presentation, differentiation, treatment. -

Performing clinical procedures.

Practical Class 3 – Discussion of topic III

- Non-carious loss of dental hard tissues (abrasion, attrition, demastication, abfraction, erosion).

- Prevention of non-bacterial loss of dental tissues

- Performing clinical procedures.

Practical Class 4

- Credit test from topic I to III – 10 questions.

- Performing clinical procedures.

Practical Class 5 – Discussion of topic IV

- Non-infectious lesions of the oral mucosa, traumatic injuries, chemical injuries, thermal injuries, allergies, drug-induced changes.

- Children with special needs - physically and intellectually disabled

- Performing clinical procedures.

Practical Class 6 – Discussion of topic V

- Dental treatment in children with systemic diseases (heart diseases, bleeding disorders, immunity disorders, kidney, liver and respiratory disorders – asthma, nervous system disorders, diabetes, gastroesophageal reflux disorders, hyperthyroidism and hypothyroidism, adrenal diseases, neoplastic diseases). Dental procedures before transplantations

- Performing clinical procedures.

Practical Class 7

- Credit test from topic IV to V – 10 questions.

- Performing clinical procedures.

Practical Class 8 – Discussion of topic VI

- Pharmacological premedication, analgesics in children.

- Sedation – minimal and deep, inhaled - with nitrous oxide.

- Treatment protocol of different types of post-traumatic injuries of primary teeth, recommendations, follow-up visits.

- Performing clinical procedures.

Practical Class 9 – Discussion of topic VII

- Local anesthesia in the developmental age (indications, contraindications, techniques, doses, types, local and general complications).

- Treatment protocol of different types of post-traumatic injuries of immature permanent teeth, prognosis, recommendations, follow-up visits.

- Performing clinical procedures.

Practical Class 10

- Credit test from topic VI and VII – 10 questions.

- Performing clinical procedures.

Practical Class 11 – Discussion of topic VIII

- Teeth extractions and other surgical procedures in children and adolescents, indications, contraindications, consequences.

- Antibiotic therapy in dental treatment of children.

- Performing clinical procedures.

Practical Class 12 – Discussion of topic IX

- Prosthetic treatment during the developmental age, treatment procedures in case of premature loss of deciduous and permanent teeth, dental trauma, malformations.
- Performing clinical procedures.

Practical Class 13 – Discussion of topic X

- Physiological regulation of calcium-phosphate metabolism. Disorders of the calcium-phosphate with particular emphasis on changes of the masticatory system (hypokalcemia, hypercalcemia, hypophosphatemia, hyperphosphatemia). Performing
- Performing clinical procedures.

Practical Class 14

- Credit test from topic VIII to X – open questions
- Practical exam – performing a dental treatment in a patient of developmental age
- Performing clinical procedures.

Practical Class 15

- Final crediting test of the 10th semester from topic I to X
- Performing clinical procedures.

Basic literature:

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:

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

Preliminary conditions

Student is admitted to 5th year classes after successful completion of the final test summarizing knowledge of Paediatric Dentistry and Preventive Dentistry subject from the 4th year.

Conditions to receive credit for the course

CONDITIONS TO RECEIVE CREDIT FOR EACH SEMESTER

1. Obtaining positive grades from oral discussions in the winter and summer semester
2. Obtaining a positive test result (at least 61% of correct answers) in the practical classes, lectures and seminars: semester credit tests in the winter and summer semester consisting of 20 questions
3. Performing obligatory practical procedures for patients in the winter and summer semester including:
 - I. Restoring 20 cavities in deciduous and permanent immature teeth, including:
 - One surface restorations – 10
 - Two surface restorations – 5
 - Three and more surface restorations – 5
 - II. Endodontic treatment of 4 teeth (6 canals) primary and immature permanent teeth.
 - III. Medical history of each new patient
 - IV. Interpretation of at least 4 radiographs
 - V. Hygienic and dietary instruction for each first-time patient
 - VI. Control of preventive recommendations
 - VII. Active assisting twice during dental procedures
4. Passing of the semester: passing the credit test of 20 questions, partial tests, mandatory practical treatments.
5. Passing the final exam: after semester X

The final exam consists of 3 stages:

1. Practical exam
2. Theoretical exam - 50 single or multiple-choice questions (1 verxator and 4 distractors from the passing threshold of 61% or 5 distractors)
3. Oral test - 4 questions of randomly selected topics - required to answers all questions correctly

Only a positive grade allows the possibility of moving on to the next stage of the exam.

The final exam takes place in direct contact with a teacher. In justified cases, the Rector's decision may take place in remote form.

Grade	Criteria for passing the semester test - MCQ test - 20 questions (1 verksator + 4 distractors)
Excellent (5,0)	20
Very Good (4,5)	18-19
Good (4,0)	16-17
Satisfactory (3,5)	14-15
Sufficient (3,0)	12-13

Grade:	Criteria for the oral examination
Excellent (5,0)	Throughout the oral answer of 4 randomly selected topics, the student is fluent in solving all issues in the field of paediatric dentistry and dental prophylaxis, as well as their diagnosis and treatment, has extensive knowledge based on scientific evidence regarding these issues - insightful discussion of issues and no terminological and substantive errors
Very Good (4,5)	Throughout the oral answer of 4 randomly selected topics, the student correctly discusses issues in the field of paediatric dentistry and dental prophylaxis, as well as their diagnosis and treatment, has some knowledge based on scientific evidence regarding these issues – whole discussion of issues and no substantive and terminological errors
Good (4,0)	Throughout the oral answer of 4 randomly selected topics, the student correctly discusses 3 issues in the field of paediatric dentistry and dental prophylaxis, their diagnosis and treatment, and solves the 4 th topic in a basic manner - full discussion of issues and minor substantive and / or terminological errors
Satisfactory (3,5)	Throughout the oral answer of 4 randomly selected topics, the student correctly discusses 2 issues in the field of paediatric dentistry and dental prophylaxis, their diagnosis and treatment, and solves the other 2 topics in a basic manner- proving a partial understanding of the issues or a comprehensive but superficial discussion of the issue and minor substantive and / or terminological errors
Sufficient (3,0)	During the oral answer to 4 randomly selected topics, the student discusses 3 or 4 issues in the field of paediatric dentistry and dental prophylaxis, their diagnosis and treatment in a basic manner - partial and incomplete discussion of the issue and minor terminological and / or substantive errors

Person responsible for the subject:

Dr hab.n.med. Maciej Dobrzyński, prof.UMW

Telephone number:	(71) 7840362			
E-mail:	maciej.dobrzynski@umed.wroc.pl			
List of persons conducting classes:				
Name and Surname:	Degree/scientific or professional title:	Discipline:	Performed profession:	Form of classes:

Name of department of the course:		Dept. of Paediatric Dentistry and Preclinical Dentistry		
Address of the department:		Wrocław, Krakowska 26		
Telephone number:		(71) 7840362		
E-mail:		stomdzieci@umed.wroc.pl		
Urszula Kaczmarek	PhD, DDS, Prof	Medical science	Academic teacher/dentist/prof	L
Maciej Dobrzyński	PhD, DDS, Prof UMW	Medical science	Academic teacher/dentist	L, CC
Małgorzata Kowalczyk-Zajac	PhD, DDS	Dentistry	Academic teacher/dentist	CC
Dagmara Piesiak-Pańczyszyn	DDS	Dentistry	Academic teacher/dentist	CC, SE
Marta Berdzik-Janecka	DDS	Dentistry	Academic teacher/dentist	CC, SE
Martina Gutbier	DDS	Dentistry	Academic teacher/dentist	CC

02.09.2021

Martina Gutbier

Signature of Faculty Dean

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Uniwersytet Medyczny we Wrocławiu
WYDZIAŁ
LEKARSKO-STOMATOLOGICZNY
DZIEKAN
prof. dr hab. Marcin Mikulewicz

Signature of the Head of the teaching unit:

.....
Uniwersytet Medyczny we Wrocławiu
Wydział Lekarsko-Stomatologiczny
KATEDRA I ZAKŁAD
STOMATOLOGII DZIECIECIEJ
I STOMATOLOGII PRZEDKLINICZNEJ
Kierownik
dr hab. n. med. Maciej Doerzyński, profesor uczelni

