



Online learning (synchronous)		30												
Distance learning (asynchronous)					37,5									
Summer Semester														
Direct (contact) education	15	18			75									
Online learning (synchronous)														
Online learning (asynchronous)														
TOTAL per year:														
Direct (contact) education	15	18			112,5									
Online learning (synchronous)		30												
Online learning (asynchronous)					37,5									
<p>Educational objectives (max. 6 items)</p> <p>G1. To familiarize students with the basic and specialized knowledge in the diagnosis and treatment of oral cavity diseases in adults.</p> <p>G2. Preparing students to perform individual caries risk assessment, establishing the treatment plan and recommendations for the patient.</p> <p>G3. Preparing students to perform restorative treatment of carious and non-carious hard dental tissues lesions as well as endodontic treatment.</p> <p>G4. Familiarize students with the dental treatment implications in a patient with the systemic disease.</p> <p>G5. Preparing students for active participation in health promotion.</p>														
<p>Education result matrix for module/course in relation to verification methods of the intended education result and the type of class</p>														
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.3		To define the communication way with a patient and motivation			Oral response (F), test (P)								
W02	F.W.3		To explain the principles of preventive-treatment procedures in oral diseases			Oral response (F), test (P)								
W03	F.W.7		To define the management principles in diseases of hard dental tissues of carious and non-carious origin			Oral response (F), test (P)								



W04	F.W.7	To describe the principles of minimally invasive treatment	Oral response (F), test (P)	
W05	F.W.9	Knows the indications for cariologic re-treatment	Oral response (F), test (P)	
W06	F.W.13	To define the indications and contraindications for aesthetic dentistry procedures	Oral response (F), test (P)	
W07	F.W. 13	To perform aesthetic reconstruction of hard dental tissues	Oral response (F), test (P)	
U01	F.U1.	To gather medical and dental history from the patient	Clinical assessment observation(F)	
U02	F.U2.	To perform clinical examination and interpret the data	Clinical assessment observation(F)	
U03	F.U3	To be able explain the patient`s ailments to set the optimal method of treatment confirmed by a conscious consent of a patient and give the prognosis of the treatment	Clinical assessment observation(F)	
U04	F.U7.	To be able to set indications and contraindications for the given dental procedure	Clinical assessment observation(F)	
U05	F.U8.	To present the disease risk assessment and select the optimal methods of oral disease prevention	Clinical assessment observation(F)	
U06	F.U13.	To use and perform the current documentation of the patient, referral for investigations or specialist for medical and dental treatment	Clinical assessment observation(F)	
K01	K 01	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	
K02	K02	To be able 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	
K03	K03	To be active 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	

** 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)		
	Winter	Summer	Total (h)
1. Contact hours:	37,5	37,5	75
2. Online learning hours (e-learning):	67,5	70,5	138
3. Student's own work (self-study):	30	30	60
Total student's workload	135	133	268
ECTS points for module/course	4	4	8
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 6

No.	Lecture topic
1.	Developmental teeth abnormalities (number, size, shape, tissues structure, color, ethiology, pathomechanism, clinical and radiological symptoms and signs, differentiation, therapeutic procedures) part 1
2.	Developmental teeth abnormalities (number, size, shape, tissues structure, color, ethiology, pathomechanism, clinical and radiological symptoms and signs, differentiation, therapeutic procedures) part 2
3.	Teeth discoloration (staining),- etiology, mechanism, clinical signs and symptoms, therapeutic procedures, prevention)
4.	1.Patient motivation for pro healthy actions. 2. Individual - at home and professional caries preventive procedures. 3. The role of fluoride in oral health promotion; modern concepts of fluoride cariostatic actions (2 hours).
5.	Dentin hypersensitivity – ethiopathomechanism, clinical symptoms, treatment, efficacy.
6.	Oral health promotion – models o health promotion (health care, health education, prevention) the WHO basic methods of oral health surveys, oral health indices - DMFT, SiC, CPI and others, global goals of oral health proposed by the WHO/FDI; global data of the WHO, regional epidemiological data, comparison of caries epidemiological situation between countries .
7.	Modern concepts and strategies of dental caries prevention. Caries risk assessment and prognosis of carious lesions development. Practical use of Cariogram - the interactive computer programme for evaluation of caries risk assessment and individually designed preventive measures.

Seminars

Semester 5

The competence of scheduled material will be verified in the form of test or essay and during the classes.

No.	Seminar topic
1.	1.Oral clinical examination – teeth (caries, developmental and acquired abnormalities, non-cariou dental defects), periodontal tissues (healthy and pathological changes of periodontal tissues), oral mucosa, salivary glands. 2. Investigations. Indices of dental caries, hygiene, dental plaque and periodontal tissues condition. 3. Dental plaque, calculus – detection, removal. 4.Oral hygiene instruction, dietetic instruction 5.Review of patient form
2.	1.Classification of carious lesions according to Black and modern classifications 2. Phases of cavity preparation according to Black and contemporary approach to particular stages of preparation 3.Clinical problems: repair or replacement of a restoration, secondary caries, fracture of the tooth or a restoration, post treatment hypersensitivity
3.	1 Rules of cavity preparations for adhesive and non-adhesive restoration 2. Methods of filing the cavity with various restorative materials (amalgam, GI composites) 3. Layering technique of restoration- types, advantages and disadvantages 4.Preventive restorative treatment (PRR A and B), slot preparation, tunnel preparation, sandwich technique



	5. Instruments used in restorative treatment: diagnostic instruments, instrument for preparation the tooth , placement and finishing the restoration, isolation of operative area, rubberdam , injections, matrices
4.	1. Restorative dental materials –phosphate cements, polycarboxylate cements, conventional and light-cured glass ionomer cements, cermets, compomers, composites (standard, packable and flow), giomers, amalgams; fissures sealants (composites and glass ionomers). - composition, properties, advantages and disadvantages, indications 2. Modern adhesive systems (IV-VII generation). 3. Types of light-curing units and polymerization techniques.
5.	1. Quality and quantity methods of early carious lesion detection. 2. Diagnosis of early carious lesion , making decision on invasive or non-invasive treatment. 3. Diagnosis of caries in regard of localization the lesion
6.	1. Natural history of a caries and its determinants 2. Clinical and microscopic appearance of a caries 3. Caries of a crown and root
7.	1. Non-conventional methods of cavity preparations CMCR- chemomechanical caries removal, ART- atraumatic restorative treatment, air abrasion technique, kinetic cavity preparation -KCP, sonic system, laser ozone therapy
8.	Non-carious defects of hard tissue, definition of abrasion, erosion, abfraction ethiopathomechanism, prevalence, clinical appearance, treatment and prevention
9.	1. Modern concepts of caries prevention. Prevention and control of caries progression. the concept of preventive treatment (non-invasive) Preventive and therapeutic treatment in elderly patients 3. Root caries development, clinical appearance, therapeutic and preventive treatment
10.	1. Esthetic reconstruction of lost hard tissue (cavity preparation, circumstances for optimal adhesion , selection of technique and material, finishing of the restoration 2. Composite veneers. 3. Reinforcement the retention of the restorations. 4. Discoloration of the teeth: etiology and treatment 5. Bleaching of vital and non vital teeth(types techniques) 6. Problems and complication of bleaching vital and non –vital teeth

Semester 6

No.	Seminar topic
1.	1. Morphology of the teeth in aspect of endodontic treatment. Classification of the root canal configurations 2. Endodontium- structure, function, therapeutic implications. 3. Etiology and pathophysiology of the pulp and periapical tissues diseases.
2.	Pulp diseases - etiology, pathomechanism, classification - reversible and irreversible pulpopathies, symptoms, signs, differential diagnosis, diagnostic methods.
3.	Treatment of reversible pulpitis – methods of vital pulp treatment, indications and contraindications, prognosis, sequels; odontotropic agents (calcium hydroxide, MTA, Biodentine, adhesive systems), healing of the pulp, treatment procedures, prognosis, complications.
4.	Treatment of irreversible pulpitis. Root canal treatment stages (endodontic access, working length.
5.	Chemo-mechanical preparation of the root canals.
6.	Obturation of the root canals: techniques , materials, effectiveness.

Practical classes



Semester 5

A. Distant learning classes- rules

- Student will receive in advance by mail clinical case to prepare
- Prepared clinical case student should send back to his tutor before scheduled date of class.
- Classes will be held on line with attributed tutor according to the schedule. During the classes clinical cases are discussed
- In case of missing the classes due to important circumstances (Dean's day , Rector "s day) theory must be completed in other fixed date

B. clinical classes in blocks - rules

-Clinical classes will begin with repetition of theory gained on 2nd year which will be held on first clinical class. Passing the repetition with positive note is the mandatory condition to start practical classes with patient

Scope :

1. Classification of carious lesions according to Black
 2. Types of dental burs and their application, types of matrices, bands
 3. Finishing the restoration (methods, tools)
 4. Materials used in conservative dentistry (temporary, for bases, final)
 5. Methods of cavity preparation and restoration with composite
 6. Methods of cavity preparation an restoration with glass-ionomer
 7. Non-carious dental defects
- Students will work in pairs
 - Students have to bring their textbooks and phantom model used on 2 second year
 - In case of lack of patient variant B is accomplished

Variant B (without the patient)

Preparation of clinical case given by tutor (theoretically with the textbook or practically using the phantom model)

Semester 6

1. Introduction to clinical classes. Review of the regulation and credit requirements. Conservative dental treatment of the patients.
2. Repetition-of the knowledge acquired during the third and fourth semester.
Clinical examination of the patient. Medical and dental history, extraoral and intraoral examination (students examine themselves). Dental health forms.
3. Developmental teeth abnormalities regarding shape, number, position, morphology- etiology, diagnostic, differentiation, management .Conservative dental treatment of the patients Test
4. Developmental teeth abnormalities regarding structure of the hard tissue -etiology, diagnostic, differentiation, management. Test. Clinical examination of the patient.
5. Conservative dental treatment of the patients.
6. Conservative dental treatment of the patients.
7. Teeth discoloration (staining)- etiology, mechanism, clinical signs and symptoms, therapeutic procedures, prevention). Test. Conservative dental treatment of the patients.
8. Conservative dental treatment of the patients.
9. Dentin hypersensitivity – etiopathomechanism, clinical symptoms, treatment, efficacy. Test. Conservative dental treatment of the patients.
10. Oral health promotion – models o health promotion (health care, health education, prevention) the WHO basic methods of oral health surveys, oral health indices - DMFT, SiC, CPI and others, global goals of oral health proposed by the WHO/FDI; global data of the WHO, regional epidemiological data, comparison of caries epidemiological situation between countries Test.
Conservative dental treatment of the patients.
11. Modern concepts and strategies of dental caries prevention. Caries risk assessment and prognosis of carious lesions development. Practical use of Cariogram- the interactive computer program for evaluation of caries risk assessment and individually designed preventive measures. Conservative dental treatment of the patients.



<p>12. FINAL TEST for completing the course. Conservative dental treatment of the patients.</p> <p>13. Conservative dental treatment of the patients.</p> <p>14. Conservative dental treatment of the patients.</p> <p>15. Make up of backlogs. Credit of subject (winter semester).</p>
<p>Other</p>
<p>Basic literature (list according to importance, no more than 3 items)</p> <ol style="list-style-type: none">1. Kidd E.A.M., Joyston-Bechal S.: Essentials of dental caries. 3rd ed. Oxford University Press, Oxford 2005.2. Sturdevant" Art& Science of Operative Dentistry 5th edition Roberson T.M., Heymann H.O., Swift E.J, Mosby St. Louis 20063. Kidd E.A.M., Smith B.G.N., Watson T.F.: Pickard's manual of operative dentistry. 8th ed. (repr.). Oxford University Press, Oxford 2011 <p>Additional literature and other materials (no more than 3 items)</p> <ol style="list-style-type: none">1. Tronstadt L.: Clinical endodontics: a textbook. 2nd ed. Georg Thieme Verlag, Stuttgart 20092. Torabinejad M., Walton R. E., "Endodontics, principles and practice" 5th edition, Saunders Elsevier 20093. Powers J.M., Wataha J.C.: Dental Materials. Properties and manipulation. Elsevier, 10th ed., 2013
<p>Didactic resources requirements (e.g. laboratory, multimedia projector, other...)</p> <p>dental camera, multimedia projector, computer , models</p>
<p>Preliminary conditions (minimum requirements to be met by the student before starting the module/course)</p> <p>Student is admitted to 3rd year classes after successful completion of the final preclinical exam summarizing knowledge of the subject from the 2nd year.</p>
<p>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)</p> <p>Clinical classes</p> <ol style="list-style-type: none">1. Student have to send to his tutor prepared clinical case up to established date2. Theoretical competency should be credited with positive mark with the tutor3. Practical skills should be positively credited by the tutor4. Scheduled clinical procedures have to be performed <p>A. Distant learning classes- rules</p> <ul style="list-style-type: none">- Student will receive in advance by mail clinical case to prepare- Prepared clinical case student should send back to his tutor before scheduled date of class.- Classes will be held on line with attributed tutor according to the schedule. During the classes clinical cases are discussed- In case of missing the classes due to important circumstances (Dean's day , Rector "s day) theory must be completed in other fixed date <p>B. clinical classes in blocks - rules</p> <ul style="list-style-type: none">- Clinical classes will begin with repetition of theory gained on 2nd year which will be held on first clinical class. Passing the repetition with positive note is the mandatory condition to start practical classes with patient <p>Scope :</p> <ol style="list-style-type: none">8. Classification of carious lesions according to Black9. Types of dental burs and their application, types of matrices, bands10. Finishing the restoration (methods, tools)11. Materials used in conservative dentistry (temporary, for bases, final)12. Methods of cavity preparation and restoration with composite13. Methods of cavity preparation an restoration with glass-ionomer14. Non-carious dental defects <ul style="list-style-type: none">- Students will work in pairs- Students have to bring their textbooks and phantom model used on 2 second year



- In case of lack of patient variant B is accomplished
Variant B (without the patient)
Preparation of clinical case given by tutor (theoretically with the textbook or practically using the phantom model)

Seminars
1.The presence on seminars is mandatory
2.Competency of scheduled topic is verified after each seminar

Forms of completing the course:
Credit form: theoretical competency and practical skills.

Credit Conditions:

Completing the clinical procedures (both semesters of 3rd year study):

- dental examination and filling the medical chart 5x and at each new patient
- hygienic & dietetic instruction for each new patient
- caries risk assessment 3 times
- 10 cavities preparations and fillings:

Gaining the positive notes from theoretical part (seminars and classes)
Positive note from the final test
Final test will be held on the end of summer semester and will concern material from winter and summer semester classes as well as seminars and lectures
In case of failing to pass all required goals and objectives of the course - student will receive "conditional credit" with a deadline to fulfill all areas ordained by Dean.

Final exam
Final exam of cariology will be held in summer session in the form of test and will cover material from both semesters, seminars and lectures

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
	Criteria (only for courses/modules ending with e credit)
Credit	

Grade:	Criteria (examination evaluation criteria)
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
Unit realizing the subject	Dept. Of Conservative Dentistry with Endodontics, Medical University of Wrocław
Unit address	ul. Krakowska 26, 50-425 Wrocław
Telephone	Tel.: (71) 784 0361, fax (71)784 03621
E-Mail	stomzach@umed.wroc.pl

Person responsible for module	Prof. Katarzyna Skośkiewicz-Malinowska, DDS, PhD
Coordinator	Prof. Katarzyna Skośkiewicz-Malinowska, DDS, PhD
Telephone	Tel.: (71) 784 0361
E-Mail	katarzyna.skoskiewicz-malinowska@umed.wroc.pl

List of persons conducting specific classes				
Full name	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Urszula Kaczmarek	Prof., DDS, PhD	Dentistry	dentist	lectures, seminars
J. Kobierska-Brzoza	DDS, PhD	Dentistry	dentist	seminars, classes
D. Piesiak - Pańczyszyn	DDS	Dentistry	dentist	seminars, classes
A. Czajczyńska-Waszkiewicz	DDS	Dentistry	dentist	seminars, classes
M. Kowalczyk -Zajęc	DDS, PhD	Dentistry	dentist	classes
M. Gutbier	DDS	Dentistry	dentist	classes
N. Jawor	DDS	Dentistry	dentist	classes
A. Urbańska	DDS	Dentistry	dentist	classes
M. Berdzik-Janecka	DDS	Dentistry	dentist	seminar



Date of Syllabus development

16.09.2020

Syllabus developed by

Agnieszka Czajczyńska-Waszkiewicz, DDS

Signature of Head of teaching unit

Prof. Katarzyna Skośkiewicz-Malinowska, DDS, PhD

Signature of Faculty Dean

.....