



Syllabus for academic year: 2021/2022													
Training cycle: 2017/2018-2021/2022													
Description of the course													
Course	Conservative dentistry with endodontics						Group of detailed education results						
							Group code	Group name					
							F	Major clinical science (operative)					
Faculty	Dentistry												
Major	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 of study	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 (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
Winter semester:													
Department of Conservative Dentistry with Endodontics (Unit realizing the course)													
Direct (contact) education ¹					75								
Distance learning ²													
Summer semester:													
Department of Conservative Dentistry													

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with Endodontics (Unit realizing the course)																				
Direct (contact) education					75															
Distance learning																				
TOTAL per year:																				
Department of Conservative Dentistry with Endodontics (Unit realizing the course)																				
Direct (contact) education					150															
Distance learning																				
Educational objectives (max. 6 items)																				
C1. Preparing students to perform individual caries risk assessment, establishing the treatment plan and recommendations for the patient.																				
C2. Preparing students to perform restorative treatment of carious and non-carious hard dental tissues lesions as well as endodontic treatment.																				
C3. Familiarize students with the dental treatment implications in a patient with the systemic disease. To familiarize students with the basic and specialized knowledge in the diagnosis and treatment of oral cavity diseases in adults.																				
C4. Acquiring the ability to choose the optimal therapeutic procedure in a given clinical situation, planning the preparation of indirect restorations using digital dentistry techniques.																				
C.5. Learning to use an intraoral scanner and acquiring the ability to take digital impressions.																				
C.6. Learn techniques and materials for adhesive cementation of indirect restorations made of ceramics and/or composite materials.																				
Education result for course in relation to verification methods of the intended education result and the type of class:																				
Number of detailed education result	Student who completes the course knows/is able to										Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>								
F.W2.	Knows the principles of prevention and treatment of diseases of the masticatory organ in different periods of development										Obtaining formative assessment grades in each practical class and passing the MCQ summative test exam	CC								
F.W3.	Knows the viral, bacterial and fungal flora of the oral cavity and its importance											CC								
F.W4.	Is able to describe the symptoms, course and management of specific oral cavity, head and neck diseases, considering age groups.											CC								
F.W5.	Understands and explains the management of pulp and mineralized dental tissues diseases as well as dental and facial bones traumatic injuries;											CC								
F.W6.	Knows and explains the principles of periapical tissues diseases treatment											CC								
F.W7.	Knows the morphology of pulp chambers and											CC								



	principles of endodontic treatment as well as instrumentation used in endodontic treatment;		
F.W11.	Knows and describes indications and contraindications for aesthetic dentistry procedures		CC
F.W12.	Understands and explains causes of complications of the stomatognathic system diseases as well as the best practices to manage complications		CC
F.U1.	Is able to conduct a medical interview with a patient or his/her family	Implementation of the delegated task and completion of procedures	CC
F.U2.	Is able to perform a dental physical examination of the patient	Implementation of the delegated task and completion of procedures	CC
F.U3.	Is able to explain to the patient the nature of his/her ailments, determine the course of treatment confirmed by the informed consent of the patient and prognosis	Implementation of the delegated task and completion of procedures	CC
F.U6.	Is able to interpret the results of additional examinations and consultations	Implementation of the delegated task and completion of procedures	CC
F.U7.	Is able to determine indications and contraindications for specific dental procedure	Implementation of the delegated task and completion of procedures	CC
F.U11.	Is able to maintain current patient documentation, write referrals to examinations or specialistic dental and medical treatment	Implementation of the delegated task and completion of procedures	CC
F.U12.	Is able to formulate research problems in dentistry.	Implementation of the delegated task and completion of procedures	CC
K 01	Cooperates in a group of professionals, critically evaluates his own actions as well as those of his co-	<u>Summarizing methods:</u> - continuous	CC



	workers, respecting the worldview and cultural differences	assessment by the teacher (observation) <u>Formative methods:</u> - observation of student's work	
K02	Formulates opinions concerning various aspects of professional activity and seeks expert advice in case of difficulties in solving problems independently	<u>Summarizing methods:</u> - continuous assessment by the teacher (observation) <u>Formative methods:</u> - observation of student's work	CC

* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning

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

Student's workload (class participation, activity, preparation, etc.)	Student Workload	
	Winter semester	Summer semester
1. Number of hours of direct contact:	75	75
2. Number of hours of distance learning:		
3. Number of hours of student's own work:	30	30
4. Number of hours of directed self-study		
Total student's workload	105	105
ECTS points for course	3,5	3,5

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

Classes – endodontic and conservative groups

Winter semester

1. Introduction to clinical classes, discussion of regulations and credit conditions. Esthetic reconstruction in posterior teeth - clinical problems (i.e. contact point reconstruction, reconstruction after endo treatment) Performing dental procedures on patients.
2. Conservatory. Hand and rotary instruments used in endodontic treatment, e.g. ultrasound, pathfinders, C-pilots. Subgingival tooth fracture – management. Performing dental procedures on patients.
3. Conservatory. Esthetic reconstruction in anterior teeth – tooth after trauma (Ellis- class II)). dental matrix, layering techniques, silicone indexes, dental materials, polishing materials, discs and strips Performing dental procedures on patients.
4. Colloquium in written form: Ergonomic. Restorative materials used in the conservative treatment of teeth. Teeth developmental abnormalities (etiology, classification, treatment). Non-carious hard dental tissues defects (etiology, classification, treatment). Performing dental procedures on patients.
5. Conservatory. Measurement of the canal working length in special clinical cases (e.g. curved canal, root

- resorption). Crown-root posts – in conservative tooth reconstruction after root canal treatment
Performing dental procedures on patients.
6. Conservatory Minimally invasive treatment of carious lesions (techniques, instruments, indications, prognosis). Diagnosis and management of perforations. Performing clinical procedures on patients.
 7. Conservatory. Diagnosis and treatment of periapical tissue inflammation. Physiological and pathological tooth wear in the elderly (diagnosis, causes, treatment). Performing dental procedures on patients.
 8. Colloquium in written form: Dental hypersensitivity (etiology, classification, treatment). Epidemiology of caries. Prevention of caries. Etiology of caries. Performing dental procedures on patients.
 9. Conservatory. Rubber dam in endodontics. Cervical lesions in the elderly patients. Performing dental procedures on patients.
 10. Conservatory. Patient with pain - management and "first aid". Geometry and restoration of a Black II cavity Performing dental procedures on patients.
 11. Conservatory. Treatment of circular and cervical caries in the elderly patients. Performing dental procedures on patients. CAD/CAM - Cabinet CAD / CAM system: work protocol, scanner operation, intraoral scanning, software, indirect reconstruction of extensive cavities
 12. Colloquium in written form. Performing dental procedures on patients. CAD- CAM - Cabinet CAD / CAM system: work protocol, scanner operation, intraoral scanning, software, indirect reconstruction of extensive cavities Ceramics vs composite (comparison of mechanical properties, advantages and disadvantages), technique of joining ceramics and composite with tooth tissues (step by step), preparation of tooth tissue surface and reconstruction surface, reconstruction and protection against fracture of endocrown root canal treated teeth vs fibers glass
 13. Conversation. Layered restoration of anterior teeth with consideration of the color, translucency, opalescence and fluorescence of the composite. Cabinet CAD / CAM system: work protocol, scanner operation, intraoral scanning, software, indirect reconstruction of extensive cavities. Perform clinical procedures on patients.
 14. Semester crediting test (25 questions). Cabinet CAD / CAM system: milling, ceramics vs composite (comparison of mechanical properties, advantages and disadvantages), technique of joining ceramics and composite with tooth tissues (step by step), preparation of tooth tissue surface and reconstruction surface, reconstruction and protection against fracture of endocrown root canal treated teeth vs fibers glass Performing dental procedures on patients.
 15. Discussion of selected clinical cases. Performing dental procedures on patients.

Summer semester– endodontic and conservative groups

1. Introduction to clinical classes, discussion of regulations and credit conditions. Esthetic reconstruction in posterior teeth - clinical problems (i.e. contact point reconstruction, reconstruction after endo treatment) Performing dental procedures on patients.
2. Conservatory. Hand and rotary instruments used in endodontic treatment, e.g. ultrasound, pathfinders, C-pilots. Subgingival tooth fracture – management. Performing dental procedures on patients.
3. Conservatory. Esthetic reconstruction in anterior teeth – tooth after trauma (Ellis- class II)). dental matrix, layering techniques, silicone indexes, dental materials, polishing materials, discs and strips Performing dental procedures on patients.
4. Colloquium in written form: Ergonomic. Restorative materials used in the conservative treatment of teeth. Teeth developmental abnormalities (etiology, classification, treatment). Non-carious hard dental tissues defects (etiology, classification, treatment). Performing dental procedures on patients.
5. Conservatory. Measurement of the canal working length in special clinical cases (e.g. curved canal, root resorption). Crown-root posts – in conservative tooth reconstruction after root canal treatment Performing dental procedures on patients.
6. Conservatory. Minimally invasive treatment of carious lesions (techniques, instruments, indications, prognosis). Diagnosis and management of perforations. Performing clinical procedures on patients.
7. Conservatory. Diagnosis and treatment of periapical tissue inflammation. Physiological and pathological tooth wear in the elderly (diagnosis, causes, treatment). Performing dental procedures on patients.



8. Colloquium in written form: Dental hypersensitivity (etiology, classification, treatment). Epidemiology of caries. Prevention of caries. Etiology of caries. Performing dental procedures on patients.
9. Conservatory. Rubber dam in endodontics. Cervical lesions in the elderly patients. Performing dental procedures on patients.
10. Conservatory. Patient with pain - management and "first aid". Geometry and restoration of a Black II cavity. Performing dental procedures on patients.
11. Conservatory. Treatment of circular and cervical caries in the elderly patients. Performing dental procedures on patients. CAD/CAM - Cabinet CAD / CAM system: work protocol, scanner operation, intraoral scanning, software, indirect reconstruction of extensive cavities
12. Colloquium in written form. Performing dental procedures on patients. CAD- CAM - Cabinet CAD / CAM system: work protocol, scanner operation, intraoral scanning, software, indirect reconstruction of extensive cavities Ceramics vs composite (comparison of mechanical properties, advantages and disadvantages), technique of joining ceramics and composite with tooth tissues (step by step), preparation of tooth tissue surface and reconstruction surface, reconstruction and protection against fracture of endocrown root canal treated teeth vs fibers glass
13. Practical exam.
14. Semester crediting test (25 questions). Performing dental procedures on patients.
15. Performing dental procedures on patients.

Basic literature (list according to importance, no more than 3 items)

1. Kidd E.A.M., Joyston-Bechal S.: *Essentials of dental caries*. 4rd ed. Oxford University Press, Oxford 2016
2. Banerjee A., Watson T.F.: " *Pickard's Guide to Minimally Invasive Operative Dentistry*", 10th ed. Oxford University Press, Oxford 2015
3. Heymann H., Swift E. and alt: *Sturdevant's Art and Science of Operative Dentistry*. Elsevier 6th ed., 2013

Additional literature and other materials (no more than 3 items)

1. Tronstadt L.: *Clinical endodontics: a textbook*. 2rd ed. Georg Thieme Verlag, Stuttgart 2009
2. Torabinejad M., Walton R.E., *Endodontics, principles and practice*, 5th edition, Saunders Elsevier 2009
3. Ingle J.I., Bakland L.K., Baumgartner J.C.: *Endodontics*, 7th ed. 2017

Preliminary conditions: (minimum requirements to be met by the student before starting the course)

Student is admitted to 5th year classes after successful completion of the 4th year and passing all rigor subjects as well as final test summarizing knowledge of the Conservative Dentistry with Endodontics from the 4th 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)

CONDITIONS FOR OBTAINING CREDIT OF THE SEMESTERS:

1. Obtaining positive grades from conservatories and colloquiums conducted in the oral or written form in the winter and summer semester classes
2. A positive result of the semester final tests (at least 61% of correct answers) in the winter and summer semester, including 25 single or multiple-choice questions.
3. performing obligatory practical procedures on patients in both, winter, and summer semester:
 - > dental examination and filling in the examination card as well as hygienic and dietary instruction for each new patient -3x
 - > preparation and restoration of 15 cavities
 - > caries risk assessment on a patient - 3x

> 8 endodontically treated canals in teeth and blocks - including rotary preparation and warm gutta-percha obturation

4. In justified cases, with the Rector's decision, the credit and exam may take place remotely (online form).

3. THE FINAL EXAM:

The final exam consists of 3 stages:

Stage 1 – Standardized practical exam

Stage 2 – Theoretical exam in form of test – 50 single or multiple-choice questions; (1 versxator and 4 distractors with the passing threshold of 61% or 5 distractors)

Stage 3– Oral exam – Consisting of 4 randomly selected questions - it is required to answer all 4 questions

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

The final grade for the exam is the arithmetic mean value of 3 components:

A. Practical exam

B. Theoretical exam

C. Oral exam

The condition to move on to stage B is to pass stage A

The condition to move on to the oral exam is passing stage A and B in successive order.

In the case of failing stage A, the retake consists of all parts of the exam in September.

In the case of passing only 1 or 2 parts of the exam, the retake (2nd and 3rd term – in September) applies only to the failed part. Form of exams will be decided by examiner.

Grade:	Criteria for semester crediting test ³ – MCQ Test - 25 questions (1 versksator + 4 distractors)
Very Good (5.0)	24-25
Good Above (4.5)	22-23
Good (4.0)	20-21
Satisfactory Plus (3.5)	18-19
Satisfactory (3.0)	16-17

Grade:	Criteria for practical exam - 75 points
Very Good (5.0)	71-75
Good Above (4.5)	66-70
Good (4.0)	61-65
Satisfactory Plus (3.5)	48-53
Satisfactory (3.0)	48

Grade:	Criteria for test exam ³ – MCQ Test - 50 questions (1 versksator + 4 distractors)
Very Good (5.0)	48-50
Good Above (4.5)	47-45



Good (4.0)	41-44
Satisfactory Plus (3.5)	36-40
Satisfactory (3.0)	30-35

Grade:	Criteria for test exam ³ – MCQ Test – 100 questions (1 versksator + 4 or 5 distractors)
Very Good (5.0)	96% - 100%
Good Above (4.5)	91% - 95%,
Good (4.0)	81% - 90%,
Satisfactory Plus (3.5)	71% - 80%
Satisfactory (3.0)	61% - 70%

Grade:	Exam grades average ranges
Very Good (5.0)	5,0- 4,70
Good Above (4.5)	4,69-4,40
Good (4.0)	4,39- 3,80
Satisfactory Plus (3.5)	3,79-3,40
Satisfactory (3.0)	3,39-3,0

Grade:	Criteria for oral exam (4 questions)
Very Good (5.0)	During an oral response to 4 randomly selected topics, the student is proficient in solving all issues in the field of conservative dentistry, endodontics, their diagnosis and treatment, has extensive knowledge based on scientific evidence concerning these issues - thorough discussion of issues and lack of terminology and/or content errors - insightful discussion of the issues and the absence of terminological and substantive errors
Good Above (4.5)	During the oral answer on 4 randomly selected topics, the student correctly discusses the issues of conservative dentistry, endodontics, and their diagnosis and treatment, has a certain knowledge based on scientific evidence concerning these issues - a full discussion of the issues and the lack of content and terminological errors- full coverage of the issues and no substantive and terminological errors
Good (4.0)	during an oral response to 4 randomly selected topics, correctly discusses 3 issues in the field of conservative dentistry, endodontics, their diagnosis and treatment, and 1 solves in a basic way - a complete discussion of issues and minor errors in content and/or terminology full coverage of the issues and minor factual and / or terminological errors
Satisfactory Plus (3.5)	During an oral response to 4 randomly selected topics, correctly discusses 2 issues in the field of conservative dentistry, endodontics, their diagnosis and treatment, and 2 solves in a basic way - indicating a partial understanding of the issue or a comprehensive but superficial discussion of the issue and minor errors in content and/or terminology proving a partial understanding of the issue or a comprehensive but superficial discussion of the issue and minor substantive and / or terminological errors

Satisfactory (3.0)	During an oral response to 4 randomly selected topics, discusses 3 or 4 issues in the field of conservative dentistry, endodontics, their diagnosis and treatment in a basic way - a partial and incomplete discussion of the issue and minor errors in terminology and/or content partial and incomplete discussion of the issue and minor terminological and / or factual errors
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Unit realizing the course:	Department 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 the course:	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:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Urszula Kaczmarek	Prof, DDS, PhD	Medical science-dentistry	dentist	lectures, seminars
Joanna Kobierska-Brzoza	DDS, PhD	Medical science-dentistry	dentist	seminars, classes
Dagmara Piesiak - Pańczyszyn	DDS	Medical science-dentistry	dentist	seminars, classes
Agnieszka Czajczynska-Waszkiwicz	DDS	Medical science-dentistry	dentist	seminars, classes
Małgorzata Kowalczyk - Zajac	DDS, PhD	Medical science-dentistry	dentist	classes
Wojciech Grzebieluch	DDS, PhD	Medical science-dentistry	dentist	digital dentistry classes, lectures
Tomasz Staniowski	DDS, PhD	Medical science-dentistry	dentist	Lectures, classes



Date of Syllabus development

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Uniwersytet Medyczny we Wrocławiu
WYDZIAŁ
LEKARSKO-STOMATOLOGICZNY
DZIECIAM

prof. dr hab. Marcin Mikulewicz

Dean's signature

Syllabus developed by

Agnieszka Czajczyńska-Waszkiewicz, DDS

Signature of Head(s) of teaching unit(s)

Uniwersytet Medyczny we Wrocławiu
Wydział Lekarsko-Stomatologiczny
KATEDRA STOMATOLOGII ZACHOWAWCZEJ
Z ENDODONCJĄ
kierownik

Prof. Katarzyna Skośkiewicz-Malinowska, DDS, PhD
dr hab. n. med. Katarzyna Skośkiewicz-Malinowska