

Syllabus for academic year: 2021/2022													
Training cycle: 2018/2019-2022/2023													
Description of the course													
Course	Conservative dentistry with endodontics							Group of detailed education results					
								Group code	F				Group name
Faculty	Dentistry												
Major	dentistry												
Level of studies	X uniform magister studies												
Form of studies	X full-time X part-time												
Year of studies	IV						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		20			60								
Distance learning ²													
Summer semester:													
Department of Conservative Dentistry with Endodontics													

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(Unit realizing the course)														
Direct (contact) education					60									
Distance learning	10													

TOTAL per year:

Department of Conservative Dentistry with Endodontics (Unit realizing the course)														
Direct (contact) education		20			120									
Distance learning	10													

Educational objectives (max. 6 items)

- C1. To familiarize students with the basic and specialized knowledge in the diagnosis and treatment of oral cavity diseases in adults.
- C2. Preparing students to perform individual caries risk assessment, establishing the treatment plan and recommendations for the patient.
- C3. Preparing students to perform restorative treatment of carious and non-carious hard dental tissues lesions as well as endodontic treatment.
- G4. Familiarize students with the dental treatment implications in a patient with the systemic disease.
- G5. Preparing students for active participation in health promotion, designing and implementing prevention programs.
- G.6. Learning how to use an intraoral scanner and acquiring the ability to take digital impressions. Knowledge of techniques and materials for adhesive deposition of indirect reconstructions 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, SE
F.W3.	Knows the viral, bacterial and fungal flora of the oral cavity and its importance		CC, SE
F.W4.	Is able to describe the symptoms, course and management of specific oral cavity, head and neck diseases, considering age groups		CC, SE
F.W5.	Understands and explains the management of pulp and mineralized dental tissues diseases as well as dental and facial bones traumatic injuries;		CC, SE
F.W6.	Knows and explains the principles of periapical tissues diseases treatment		CC, SE



F.W7.	Knows the morphology of pulp chambers and principles of endodontic treatment as well as instrumentation used in endodontic treatment;		CC, SE
F.W11.	Knows and describes indications and contraindications for aesthetic dentistry procedures		CC, SE
F.W12.	Understands and explains causes of complications of the stomatognathic system diseases as well as the best practices to manage complications		CC, SE, L
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	<u>Summarizing methods:</u>	CC, SE



	evaluates his own actions as well as those of his co-workers, respecting the worldview and cultural differences	- continuous 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, SE

* 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:	80	60
2. Number of hours of distance learning:		10
3. Number of hours of student's own work:	40	50
4. Number of hours of directed self-study		
Total student's workload	120	120
ECTS points for course	4	4

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 – summer semester on-line

1. Latest qualitative and quantitative methods of detecting early caries lesions, decisions making regarding non-invasive and operative procedures, prognosis.
2. Adhesion to enamel and dentine; adhesive systems. Optimal choice of material for reconstruction of each cavity class.
3. Modern concept of caries prevention. Caries prevention and methods of progression control, arresting the disease process vs remineralization, the concept of preventive (non-operative) treatment.
4. Preventive and therapeutic therapy of elderly patients. Root caries – aetiology of development, clinical symptoms, treatment procedures and prevention.
5. Systemic diseases in dental practice: diabetes, cardio – vascular diseases (infarct, hypertension, disturbances of bleeding, stroke, anti-coagulants), diseases of the kidney, lungs, liver, immunosuppression, menopause, and pregnancy.

Seminars winter semester- 20 h, 6x135 min i 1x90 min

1. Anatomy and morphology of pulp chambers in the aspect of endodontic treatment: root canal's systems (names and number), primary and secondary endodontic access, root canal systems classifications according to: Vertucci, Wein and Molteni. Classification of root canals systems.

Endodontium.

2. Etiology and pathophysiology of endodontium and periapical tissues diseases. Diagnostics.
3. Chemomechanical canal preparation: instruments, irrigants.
4. Chemomechanical canal preparation: techniques, hand and rotary methods.
5. Canal obturation - techniques, materials, effectiveness.
6. Early and late complications of root canal treatment.
7. Clinical cases.

Classes

Winter semester – 15 classes each lasting 4 lesson hours.

1. Introduction to clinical classes, discussion of regulations and credit conditions.
Conversatory - Anatomy and morphology of endodontium and pulp chambers. Endodontic access.
Practical classes on endodontic blocks.
2. Conversatory – Endodontic instrumentation. Practical classes on endodontic blocks.
3. Conversatory – Diseases of the pulp and periapical tissues. Practical classes on endodontic blocks.
4. Colloquium No 1 in written form. Clinical dental treatment of the patients.
5. Conversatory – Diagnostics of the pulp and periapical tissues diseases. Clinical dental treatment of the patients.
6. Conversatory – Irrigation of the root canals. Rubber dam in endodontic treatment. Clinical dental treatment of the patients.
7. Conversatory – Methods of root canals length measurement. Hand and rotary methods of root canal preparation. Clinical dental treatment of the patients.
8. Colloquium No 2 in written form. Clinical dental treatment of the patients.
9. Conversatory. Hand and rotary instruments, ultrasound. Clinical dental treatment of the patients.
9. Conversatory - Materials and instruments used for root canals obturation. Clinical dental treatment of the patients.
10. Conversatory – Methods of root canals obturation. Clinical dental treatment of the patients.
11. Conversatory – Early and late complications of root canal treatment. Endodontic retreatment. Clinical dental treatment of the patients.
12. Colloquium No 3 in written form. Clinical dental treatment of the patients.
13. Conversatory – Clinical cases study. Clinical dental treatment of the patients.
14. Semester crediting test (25 questions). Clinical dental treatment of the patients.
15. Makeup of backlogs. Clinical dental treatment of the patients.

Summer semester – 15 classes each lasting 4 lesson hours.

1. Conversatory. Caries diagnostic. Clinical dental treatment of the patients.
2. Conversatory. Preparation and restoration of different cavity classes. Clinical dental treatment of the patients.
3. Conversatory. Caries treatment- minimally invasive approach. Clinical dental treatment of the patients.
4. Colloquium - written or oral. Caries pathology. Clinical dental treatment of the patients.
5. Conversatory. Whitening of discolored teeth. Clinical dental treatment of the patients.
6. Conversatory. Endodontic instrumentation. Clinical dental treatment of the patients.
7. Conversatory. Methods of root canals preparation. Clinical dental treatment of the patients.
8. Colloquium - written or oral. Methods of root canals obturation. Clinical dental treatment of the patients.
9. Conversatory. Endodontic management of traumatic injuries of permanent teeth. Clinical dental treatment of the patients.
10. Conversatory. Focal infections and antibiotic therapy in endodontics. Performing clinical procedures on patients.
11. Semester crediting test (25 questions). Clinical dental treatment of the patients.
12. Colloquium - written or oral. Clinical dental treatment of the patients. CAD-CAM- 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 treated teeth, endocrown vs glass fibers,
13. Conservatory. Clinical dental treatment of the patients. Cabinet CAD / CAM system: work protocol, scanning, software, design, milling, preparation of tooth tissues, preparation tools, preparation of the tooth surface and soft tissues for scanning, endocrown vs k-k insert, hard tissue preparation - general rules
14. FINAL TEST (50 questions). Clinical dental treatment of the patients.
15. Clinical dental treatment of the patients.

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

1. Tronstadt L.: *Clinical endodontics: a textbook*. 2nd 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*, 6th ed. 2008

Additional literature and other materials (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

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

CONDITIONS FOR PASSING THE COURSE OF CONSERVATIVE DENTISTRY WITH ENDODONTICS 4th YEAR (BOTH SEMESTERS):

1. obtaining credits from all tests - topics of seminars in the **winter and summer semesters**
2. obtaining positive grades from conservatories and colloquia (written form) **in winter and summer semesters**
3. **in winter and summer semesters** each student is obliged to prepare and conduct 2 conservatories per semester
4. positive result of the tests (min. 61% correct answers) from the topics of classes, seminars, and lectures: semester crediting tests in winter and summer semesters consisting of 25 questions and a final credit test consisting of 50 questions.
5. performing obligatory practical procedures with patients in both- **winter and summer semesters**:
 - a. dental examination and filling in the patient card as well as hygienic and dietary instruction for each new patient -3x
 - b. preparation and restoration of 10 cavities
 - c. root canal treatment of 6 canals performed in patient and blocks - including rotary instruments preparation and filling with hot gutta-percha
 - d. clinical classes conducted exclusively in option A or in mixed option (option A with only complementary option B) are the basis for crediting the clinical part of the course.
6. Obligatory attendance at all lectures, in accordance with the study regulations.
7. If remote teaching is ordered by Rector of Medical University online form of crediting is acceptable.
8. If the student fails a colloquium or a test, he/she is obliged to pass the material as soon as possible at the Department Head - Katarzyna Skośkiewicz-Malinowska, DDS, PhD on a date previously agreed with the Head of the Department.
9. A credit with an entry in the index (without a grade) takes place after meeting all the above-mentioned criteria.



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 subject crediting final test ³ – MCQ Test - 50 questions (1 versksator + 4 distractors) after summer semester
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

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 Czajczyńska-Waszkiewicz	DDS	Medical science-Dentistry	dentist	seminars, classes
Małgorzata Kowalczyk - Zajęc	DDS, PhD	Medical science-Dentistry	dentist	classes
Natalia Jawor-Moczulska	DDS	Medical science-Dentistry	dentist	classes
Tomasz Staniowski	DDS, PhD	Medical science-Dentistry	dentist	classes
Anna Olczyk	DDS	Medical science-Dentistry	dentist	classes
Wojciech Grzebieluch	DDS, PhD	Medical science-Dentistry	dentist	digital dentistry classes, lectures

Date of Syllabus development

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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 ENDONCJĄ

Prof. Katarzyna Skośkiewicz-Malinowska, DDS, PhD

dr hab. n. med. Katarzyna Skośkiewicz-Malinowska

Uniwersytet Medyczny we Wrocławiu
Wydział Lekarsko-Stomatologiczny
Dziekan

Dean's signature

prof. dr hab. Marcin Mikulewicz

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