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| **Syllabus for academic year 2018/2019** |
| **Description of the course** |
| **Module/Course** | **Restorative dentistry with endodontics** | **Group of detailed education results**  |
| **Group code F** | **Group name** **VI -Clinical sciences,****major-oriented** |
| **Faculty** | Faculty of Dentistry |
| **Major**  | Dentistry |
| **Specialties** | Restorative dentistry with endodontics |
| **Level of studies** | Uniform magister studies **X** \*1st degree studies 2nd degree studies 3rd degree studies postgraduate studies  |
| **Form of studies** | **X** full-time part-time |
| **Year of studies**  | **IV** | **Semester** | **X** Winter**X** Summer |
| **Type of course** | **X** obligatory limited choice free choice / elective  |
| **Course** | **X** major basic |
| **Language of instruction** |  Polish **X** English other |
| \* mark 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 (SCM) | Foreign language Course (FLC) | Physical Education obligatory (PE) | Vocational Practice (VP) | Self-Study (Student's own work) | E-learning (EL) |
| **Winter Semester** |
|  |  | **20** |  |  | **70** |  |  |  |  |  |  |  |  |  |
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| **Summer Semester** |
|  | **10** |  |  |  | **70** |  |  |  |  |  |  |  |  |  |
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| **TOTAL per year:** |
|  | **10** | **20** |  |  | **140** |  |  |  |  |  |  |  |  |  |
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| **Educational objectives** (max. 6 items)G1. To familiarize students with the basic and specialized knowledge in the diagnosis and treatment of oral cavity diseases in adults.G2.Preparing students to perform individual caries risk assessment, establishing the treatment plan and recommendations for the patient. G3. 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. |
| **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*\*\*enter the abbreviation* |
|  **W01** | **F.W.3** | To explain the principles of preventive-treatment procedures in oral diseases  | Oral response (F),test (P | L,CC  |
|  **W02** | **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)  | CC |
|  **W03** | **F.W.7** | To describe the principles of minimally invasive treatment  | Oral response (F), test (P) | L, CC |
|  **W04** | **F.W.7** | To define and explain the principles in management of pulp diseases  | Oral response (F), test (P) | SE, CC |
| **W05** | **F.W.7** | To describe and understand the indications to re-treatment in cariologic and endodontic cases  | Oral response (F), test (P) | SE, CC |
| **W06** | **F.W.13** | To define the indications and contraindications for aesthetic dentistry procedures | Oral response (F), test (P) | CC |
|  **W07** | **F.W.22** | To describe and understand the relationships between oral health status and systemic diseases | Oral response (F), test (P) | L, SE, CC |
| **U01** | **F.U.1**  | To gather medical and dental history from the patient  | Clinical assessment observation (F) | CC |
| **U02** | **F.U.2** | To perform clinical examination and interpret the data  | Clinical assessment observation (F) | CC |
| **U03** | **F.U.3** | 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) | CC |
| **U04** | **F.U.7** | To be able to set indications and contraindications for the given dental procedure  | Clinical assessment observation (F) | CC |
| **U05** | **F.U.8** | To present the disease risk assessment and select the optimal methods of oral disease prevention  | Clinical assessment observation (F) | CC |
| **U06** | **F.U.18** | To perform treatment of dental caries , pulpal diseases and periapical diseases  | Clinical assessment observation (F) | CC |
| **U07** | **F.U.13** | To use and perform the current documentation of the patient, referral for investigations or specialist for medical and dental treatment  | Clinical assessment observation (F) | CC |
| **K01** | **K01** | to cooperate in the group of professionals, in the environment multicultural and multinational  | Summarizing methods:- constant evaluation by teacher (surveying)Shaping methods:- observation of student’s work- discussion during classes- opinions of colleagues | CC |
| **K02** | **K02** | To be able to creates rules of the professional comradeship and the cooperation with representatives of other health care professionals  | Summarizing methods:- constant evaluation by teacher (surveying)Shaping methods:- observation of student’s work- discussion during classes- opinions of colleagues | CC |
| **K03** | **K03** | To be active in oral health promotion | Summarizing methods:- constant evaluation by teacher (surveying)Shaping methods:- observation of student’s work- discussion during classes- opinions of colleagues | CC |
| \*\* 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: 5Skills: 5Social competences: 5 |
| **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: | 90 | 80 | 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. | 30 | 40 | 0 |
| Total student's workload | 120 | 120 | 15 |
| **ECTS points for module/course** | 4 | 4 | 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) |
| **Lectures****Semester 8**

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| **No** | **Lectures** |
| **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. |

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| **Seminars**Semester 7

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| **No** | **Seminars topics** |
| 1 | Strategies of infected root canals treatment (canals preparation, disinfecting materials) (2h 15 min) |
| 2 | 1. Early and late complications of root canal treatment.2. Radiography in diagnosis and endodontic treatment. (2h 15 min) |
| 3 | Apical periodontitis - etiopathomechanism, clinical and radiological features, therapeutic treatment, prognosis, first aid in endodontic treatment, endodontic retreatment. (2h 15 min) |
| 4 | Resorptions - etiopathomechanism, clinical and radiologic features, therapeutic treatment, prognosis. (2h 15 min) |
| 5 | Endo-surgical treatment (apicoectomy, hemisection, root resection, bicuspidization, autoreplantation – the choice of method, treatment strategies, prognosis). (2h 15 min) |
| 6 | Retreatment of endodontic therapy: etiology, therapeutic procedures, revision of previously treated root canal system (endo - surgical treatment). (2h 15 min) |
| 7 | Endo – perio: etiopathogenesis, clinical and radiological features, classification, diagnostic methods, therapeutic treatment, prognosis. (1h 30 min) |

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| **Practical classes**Semester 7

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| 1 | Introduction to the clinical tutorials: rules and crediting conditions. Repetition of patient form. (interview, clinical examination, indices, additional examination, treatment plan). |
| 2 | **Repetition test of theoretical knowledge from 3rd year.** Anatomy and morphology of pulp chambers and root canal’s systems. Endodontics: reversible and irreversible pulp diseases, symptoms, diagnosis, treatment. Stages of endodontic treatment. Apical periodontitis - signs and symptoms, clinical and radiological features, therapeutic treatment. Conservative dental treatment of the patients. |
| 3 | Strategies of infected root canals treatment (canals preparation, disinfecting materials) **(essay)** . Conservative dental treatment of the patients. |
| 4 | Early and late complications of root canal treatment. Radiography in diagnosis and endodontic treatment  **(essay).** Conservative dental treatment of the patients. |
| 5 | Apical periodontitis - etiopathomechanism, clinical and radiological features, therapeutic treatment, prognosis, first aid in endodontic treatment, endodontic retreatment. Conservative dental treatment of the patients. |
| 6 | Conservative dental treatment of the patients. |
| 7 | Resorptions - etiopathomechanism, clinical and radiologic features, therapeutic treatment, prognosis. - **(essay)** Conservative dental treatment of the patients. |
| 8 | Endo-surgical treatment (apicoectomy, hemisection, root resection, bicuspidization, autoreplantation – the choice of method, treatment strategies, prognosis). - **(essay)** Conservative dental treatment of the patients. |
| 9 | Retreatment of endodontic therapy: etiology, therapeutic procedures, revision of previously treated root canal system (endo - surgical treatment). **(essay)** Conservative dental treatment of the patients.  |
| 10 | Endo – perio: etiopathogenesis, clinical and radiological features, classification, diagnostic methods, therapeutic treatment, prognosis. - **(essay)** Conservative dental treatment of the patients. |
| 11 | Conservative dental treatment of the patients. |
| 12 | Conservative dental treatment of the patients. |
| 13 | **Final test from the 7th semester.** Conservative dental treatment of the patients. |
| 14 | Conservative dental treatment of the patients. |
| 15 | Make up of backlogs. Conservative dental treatment of the patients. |

Semester 8

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| 1 | Clinical dental treatment of the patients. |
| 2 | Latest qualitative and quantitative methods of detecting early caries lesions, decisions making regarding non-invasive and operative procedures, prognosis. Clinical dental treatment of the patients. |
| 3 | Clinical dental treatment of the patients. |
| 4 | Adhesion to enamel and dentine; adhesive systems. Optimal choice of material for reconstruction of each cavity class. Clinical dental treatment of the patients. |
| 5 | Clinical dental treatment of the patients. |
| 6 | 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. Clinical dental treatment of the patients. |
| 7 | Clinical dental treatment of the patients. |
| 8 | Preventive and therapeutic therapy of elderly patients. Root caries – aetiology of development, clinical symptoms, treatment procedures and prevention. Clinical dental treatment of the patients. |
| 9 | Clinical dental treatment of the patients. |
| 10 | 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. Clinical dental treatment of the patients. |
| 11 | Clinical dental treatment of the patients. |
| 12 | Focal infection - etiology, symptomatology, diagnosis, therapeutic procedures. Clinical dental treatment of the patients. |
| 13 | **Final crediting - test and essay.** Clinical dental treatment of the patients. |
| 14 | Clinical dental treatment of the patients. |
| 15 | Make up of back logs. Credit of subject. Clinical dental treatment of the patients. |

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| **Basic literature** (list according to importance, no more than 3 items)1. Kidd E.A.M., Joyston-Bechal S.: Essentials of dental caries. 3rd ed. Oxford University Press, Oxford 2005.
2. 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.
3. Toarbinajad M., Walton R.E.: Endodontics, principles and practice. 5th ed. Sauders Elsevier 2009.

**Additional literature and other materials** (no more than 3 items)1. Tronstadt L.: Clinical endodontics: a textbook. 2nd ed. Georg Thieme Verlag, Stuttgart 2009.
2. Ingle J.I., Bakland L.K., Baumagartner J.C.: Endodontics . 6Th ed. 2008.
3. Powers J.M., Wataha J.C.: Dental materials. Properties and manipulation. Elsevier 10th ed. 2013
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| **Didactic resources requirements** (e.g. laboratory, multimedia projector, other…)dental camera, multimedia projector, computer  |
| **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 med by the student to pass it and criteria for specific grades)**Practical classes:**  Gaining the theoretical and practical knowledge in conservative and endodontic treatment.Forms of completing the course: Credit form: theoretical knowledge and practical skills.**Credit conditions:**1. students have a right to be absent on 10% practical classes in the semester according to Student’s Statutory (absence on more than 10% classes should be fulfilled with the tutor in the last week of the semester)2. theoretical knowledge should be credited with positive mark with the tutor3. practical skills should be credited on positive mark with the tutor4. 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 the Conservative Dentistry course. This examination takes place at 5th year of the study. The last practical class is devoted to fulfil 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 fulfil all areas ordinated by Dean.  **Numbers of treatment procedures (both semesters of 4th year study):*** 20 cavities preparations and fillings: 1-surface x 8; 2-surfaces 6; 3x surfaces 6
* investigation (filled in questionnaire) 5 and at each new patient
* hygienic & dietetic instruction (presentation) 5 and at each new patient
* biological treatment
* use of matrix 10
* application of temporary filling
* fluoride and chlorhexidine varnishes 5
* prophylaxis 5
* scaling mechanical & ultrasonic 5
* radiological diagnosis – 4 radiograms (carietic and endodontic lesions), digital radiography analysis - 1 radiogram
* endodontic treatment - 4 teeth
* assisting - 2
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| **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 |
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| **Name and address of module/course teaching unit, contact: telephone and e-mail address**Dept. Of Conservative Dentistry and Pedodontics, Medical University of Wroclawul. Krakowska 26, WrocławTel.: (71) 784 0361, fax (71)784 03621 stomzach@umed.wroc.pl**Coordinator / Person responsible for module/course, contact: telephone and e-mail address** **Prof. Urszula Kaczmarek, DDS, PhD** Tel.: (71) 784 0361 urszula.kaczmarek@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 lectures, seminarsJoanna Kobierska-Brzoza, PhD Dentistry, dentist classesKowalczyk-Zając Małgorzata, PhD Dentistry, dentist classesDagmara Piesiak-Pańczyszyn,BDS Dentistry, dentist classesAgnieszka Czajczyńska-Waszkiewicz, BDS Dentistry, dentist classesMarta Berdzik-Janecka, BDS Dentistry, dentist classesIwona Przywitowska, BDS Dentistry, dentist classesNatalia Jawor-Moczulska, BDS Dentistry, dentist classes

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| **Date of Syllabus development**  | **Syllabus developed by**  |
| 20.06.2018 | Agnieszka Czajczyńska-Waszkiewicz, BDS ……........................................... |
| **Signature of Head of teaching unit** |
| ……………....……………………………………………………………… |

**Signature of Faculty Dean**  |
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