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| **Syllabus for academic year 2019/2020** |
| **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**  | V | **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** |
|  |  |  |  |  | **75** |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Summer Semester** |
|  |  |  |  |  | **75** |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **TOTAL per year:** |
|  |  |  |  | **150** |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **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* |
|  **U01** | **F.U.1** | To gather medical and dental history from the patient or his family | Clinical assessment observation (F) | CK |
|  **U02** | **F.U.2** | To perform clinical examination and interpret the data  | Clinical assessment observation (F) | CK |
|  **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) | CK |
|  **U04** | **F.U.7** | To be able to set indications and contraindications for the given dental procedure  | Clinical assessment observation (F) | CK |
|  **U05** | **F.U.8** | To present the disease risk assessment and select the optimal methods of oral disease prevention  | Clinical assessment observation (F) | CK |
| **U06** | **F.U.18** | To perform treatment of dental caries , pulpal diseases and periapical diseases  | Clinical assessment observation (F) | CK |
|  **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) | CK |
| **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 | CK |
| **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 | CK |
| **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 | CK |
| \*\* 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: 4 |
| **Student's amount of work (balance of ECTS points)** |
| **Student's workload** (class participation, activity, preparation, etc.) | **Student Workload (h)** |  |
|  | Winter | Summer |
| 1. Contact hours: | 75 | 75 |  |
| 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. | 45 | 40 |  |
| Total student's workload | 110 | 115 |  |
| **ECTS points for module/course** | 3,5 | 3,5 |  |
| 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** |
| **Seminars** |
| **Practical classes****Semester 9**1. Conservative dental treatment of the patients. 2. **CONS.:** Dental materials for cavity restoration. Adhesion to enamel and dentin.  **ENDO.:** Reversible and irreversible pulpopathies. Stages of endodontic treatment. Conservative dental treatment of the patients. Introductory test from III rd and IV th year.3. Conservative dental treatment of the patients.**CONS.:** Modern materials used in esthetic restorative dentistry. **ENDO.:** Anatomy and morphology of pulp chambers and root canal systems.4. Conservative dental treatment of the patients.5. Conservative dental treatment of the patients. **CONS.:** Polymerization shrinkage and clinical options to reduce its consequences. **ENDO.:** Diagnostics and division of pulp diseases. Instruments used in endodontic treatment, rubber dam.6. Conservative dental treatment of the patients.7. Conservative dental treatment of the patients.**CONS. :** The concept of minimally operative dentistry and minimal invasive dentistry.**ENDO.:** Measurement of the working length of the root canal:a) the radiographic method (Ingle's method)b) with the use of the endometer (advantages, disadvantages, the most common mistakes).8. Conservative dental treatment of the patients.9. Conservative dental treatment of the patients.**CONS.:** Minimally invasive techniques of cavity preparation. The chemomechanical technique (Carisolv).**ENDO.:** Chemical preparation of root canals, agents and their activity. Temporary dental materials for the root canal treatment.10. Conservative dental treatment of the patients.11. Conservative dental treatment of the patients.**CONS.:** Esthetic reconstruction of lost dental tissues – conditions of optimum adhesion, selection of the reconstruction technique and the restorative material, finishing of dental restoration.**ENDO.:** Mechanical root canal preparation – methods: a) step-back b) crown-down. The use of ultrasounds.12. Conservative dental treatment of the patients.13. Conservative dental treatment of the patients.**CONS.:** Secondary caries –replacement vs. repair of the restoration. Post-operative sensitivity (mechanism, therapeutic and preventive treatment).**ENDO.:** Methods of filling the root canals, materials for root canal fillings.14. Conservative dental treatment of the patients. **CREDIT ESSAY**15. Conservative dental treatment of the patients. Clearing backlogs, semester credit.**Semester 10**1. Conservative dental treatment of the patients. 2. **CONS.:** Dental materials for cavity restoration. Adhesion to enamel and dentin.  **ENDO.:** Reversible and irreversible pulpopathies. Stages of endodontic treatment. Conservative dental treatment of the patients. Introductory test from III rd and IV th year.3. Conservative dental treatment of the patients.**CONS.:** Modern materials used in esthetic restorative dentistry. **ENDO.:** Anatomy and morphology of pulp chambers and root canal systems.4. Conservative dental treatment of the patients.5. Conservative dental treatment of the patients. **CONS.:** Polymerization shrinkage and clinical options to reduce its consequences. **ENDO.:** Diagnostics and division of pulp diseases. Instruments used in endodontic treatment, rubber dam.6. Conservative dental treatment of the patients.7. Conservative dental treatment of the patients.**CONS. :** The concept of minimally operative dentistry and minimal invasive dentistry.**ENDO.:** Measurement of the working length of the root canal:a) the radiographic method (Ingle's method)b) with the use of the endometer (advantages, disadvantages, the most common mistakes).8. Conservative dental treatment of the patients.9. Conservative dental treatment of the patients.**CONS.:** Minimally invasive techniques of cavity preparation. The chemomechanical technique (Carisolv).**ENDO.:** Chemical preparation of root canals, agents and their activity. Temporary dental materials for the root canal treatment.10. Conservative dental treatment of the patients.11. Conservative dental treatment of the patients.**CONS.:** Esthetic reconstruction of lost dental tissues – conditions of optimum adhesion, selection of the reconstruction technique and the restorative material, finishing of dental restoration.**ENDO.:** Mechanical root canal preparation – methods: a) step-back b) crown-down. The use of ultrasounds.12. Conservative dental treatment of the patients.13. Conservative dental treatment of the patients.**CONS.:** Secondary caries –replacement vs. repair of the restoration. Post-operative sensitivity (mechanism, therapeutic and preventive treatment).**ENDO.:** Methods of filling the root canals, materials for root canal fillings.14. Conservative dental treatment of the patients. **CREDIT ESSAY**15. Conservative dental treatment of the patients. Clearing backlogs, semester credit. |
| **Other** |
| **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.  |
| **Didactic resources requirements** (e.g. laboratory, multimedia projector, other…)dental camera, multimedia projector, computer , local internet network, models |
| **Preliminary conditions** (minimum requirements to be met by the student before starting the module/course)To enter 5th year classes student is required to pass the test summarizing knowledge of the subject from the 4th year, held at the end of 8 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)**CREDIT REQUIREMENTS:****1. Classes:** - attendance at classes is obligatory; three late arrivals are treated as one absence; the student has the right to miss 10% of the total time of the classes in a semester  - it is acceptable to make up the total of 1 class with another group of students after having received a written approval from the assistant lecturer- the theoretical knowledge that the classes are based on will be verified and evaluated (**essay**)- the student is obliged to prepare for the subject covered in class, which is the condition to allow them to participate in practical classes (a student who is not prepared will remain in class, and he/she will participate as an assist)**2. Obligatory procedures:**  - dental examination and completing the clinical examination form; hygiene and diet instructions for every new patient.  - control of following preventive recommendations - radiological diagnosis – interpretation of 4 radiograms - endodontic treatment: 8 root canals or 5 teeth - preparing and filling 25 cavities: (5 x one-surface, 10 x two-surfaces, 10 x three-surfaces)**3.** Final (diploma) exam consists of two parts: theoretical and practical exam ( multiple choice test – 100 questions).To pass the final exam student has to obtain at least mark 3,00 from each part)**DIPLOMA EXAM REGULATIONS****The diploma exam after the 5th year** **Final (diploma) exam** consists of two parts: theoretical and practical exam ( multiple choice test – 100 questions). **Both parts of the exam are treated synonymously, i.e. the exam must be awarded at least** **a satisfactory grade for each part of the examination, and admission to the second part of the** **examination is conditioned by the first part.****1. Practical –** clinical interview, clinical examination, diagnosis, treatment planning, preventive recommendations, performing the clinical procedure.**2. Theoretical –** test consist of 100 questions. Conditions for passing: 70 % of correct answers. |
| **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 |
| **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. Joanna Kobierska-Brzoza, PhD Dentistry, dentist- classesKowalczyk-Zając Małgorzata, PhD Dentistry, dentist classesAgnieszka Czajczyńska-Waszkiewicz, DDS Dentistry, dentist- classesIwona Przywitowska, PhD Dentistry, dentist classesEwa Mróz-Szczęsna, DDS Dentistry, dentist classesTomasz Staniowski PhD Dentistry, dentist classes |
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| **Date of Syllabus development**  | **Syllabus developed by**  |
| 20.06.2019 |  Agnieszka Czajczyńska-Waszkiewicz, DDS……........................................... |
| **Signature of Head of teaching unit** |
| ……………....……………………………………………………………… |

**Signature of Faculty Dean** ……………....……………………………………………………………… |
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