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| **Syllabus for academic year 2014/2015** |
| **Part A - Description of the subject of education**  |
| **Name of module/course** | **Conservative dentistry with endodontics** | **Group of specific learning outcomes**  |
| **Group code** **F** | **Group name** **VI- Clinical sciences,****major-oriented** |
| **Department** | Faculty of Dentistry |
| **Field of study**  | Dentistry |
| **Specialities** |  |
| **Level of study** | Long-cycle studies **X** \*1st cycle 2nd cycle 3rd cycle postgraduate  |
| **Form of studies** | full-time **X** part-time  |
| **Year of studies** | III | Semester | 5,6 |
| **Type of course** | mandatory **X** optional  |
| **Rank of course** | principal **X** basic  |
| **Language of instruction** | Polish English **X** other  |
| \* mark as appropriate changing into **X** |
| **Form of education** | **Number of hours** |
|  | **sem 5** | **sem 6** |
| Lectures (WY) |  | 15 |
| Seminars (SE) | 30 | 18 |
| Auditorium classes (CA) |  |  |
| Major classes - non-clinical (CN) |  |  |
| Clinical classes (CK) | 70 | 70 |
| Laboratory classes (CL) |  |  |
| Specialist - master's classes (CM) |  |  |
| Simulated classes (CS) |  |  |
| Language courses (LE) |  |  |
| Practical classes with patient (PP) |  |  |
| Physical education classes - mandatory (WF) |  |  |
| Professional training (PZ) |  |  |
| Self-education |  |  |
| Other |  |  |
| **In total** | **100** | **103** |
| **Educational goals:** 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. |
| **Matrix of learning outcomes for module/course in relation to methods of verification of intended learning outcomes and form of classes:**  |
| The number of core education outcome | The number of major education outcome | Student who passes the module/course has the knowledge of/knows how to/is capable of  | Methods of verification of intended learning outcomes achievement (forming and summary)  | Form of classes\*\* enter the symbol  |
|  **W01** | **F.W.2** | To define the communication way with a patient and motivation | Oral response (F) | CK |
|  **W02** | **F.W.2** | To explain the principles of preventive-treatment procedures in oral diseases  | Oral response (F) | SE, CK |
| **W03** | **F.W.5** | Has a knowledge of viral, bacterial and fungal flora of oral cavity and its importance | Oral response (F), test (S) | SE, CK |
| **W04** | **F.W5**  | Has a knowledge of the symptoms, course, and management in specific diseases entities oral cavity, head and neck | Oral response (F), test (S) | SE, CK |
| **W05** | **F.W.7**  | To define the management principles in diseases of hard dental tissues of carious and non-carious origin  | Oral response (F), test (S)  | SE, CK |
| **W06** | **F.W.7** | To describe the principles of minimally invasive treatment  | Oral response (F), test (S) | SE,WY,CK |
| **W07** | **F.W.9** | Knows the indications for cariologic re-treatment | Oral response (F), test (S) | SE,CK |
| **W08** | **F.W.13** | To define the indications and contraindications for aesthetic dentistry procedures  | Oral response (F), test (S) | SE,WY,CK |
| **W09** | **F.W.14** | To describe and understand the relationships between oral health status and systemic diseases | Oral response (F), test (S) | SE,WY,CK |
| **U01** |  **F.U1.** | To gather medical and dental history from the patient | Clinical assessment observation(F) | SE,CK |
| **U02** |  **F.U2.** | To perform clinical examination and interpret the data | Clinical assessment observation(F) | SE,CK |
| **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) | CK |
| **U04** | **F.U7.**  | To be able to set indications and contraindications for the given dental procedure | Clinical assessment observation(F) | CK |
| **U05** |  **F.U8.** | To present the disease risk assessment and select the optimal methods of oral disease prevention  | Clinical assessment observation(F) | SE,CK |
| **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) | CK |
| **K01** | **K 01** | to cooperate in the group of professionals, in the environment multicultural and multinational  | Observation (F) | SE,CK |
| **K02** | **K02** | To be able to creates rules of the professional comradeship and the cooperation with representatives of other health care professionals  | Observation (F) | CK |
| **K03** | **K03** | To be active in oral health promotion | Observation (F) | SE,CK |
| \*\*WY - lecture; SE - seminar (SE); auditorium classes - CA; CN - principal classes (non-clinical); CL - laboratory classes; CN - specialist (master's) classes; CS - simulated classes; LE - language courses; PP - practical classes with patient; WF - physical education classes (mandatory); PZ - professional training; SK - self-education  |
| Put a cross on a 1 to 3 scale to mark how the above outcomes categorize your classes in terms of knowledge, skills and attitudes e.g.: Knowledge + + + Skills + ++Attitudes +++  |
| **Student's workload (the ECTS credit balance):**  |
| **Form of student's workload**(attendance, initiative, preparation to classes, verification etc.) | **Student's workload (h)**  |
|  | sem 5 | sem 6 |
| 1. Contact hours  | 100 | 103 |
| 2. Time dedicated to student's own work  |  |  |
| Total student's workload  | 100 | 103 |
| **The ECTS credits per module/subject**  | 3 | 3 |
| Remarks  |  |  |
| **Classes content:** (please put down the classes subject matter in a concise form with the consideration of the form of classes and bearing in mind the fact that the subject matter should translate into the intended learning outcomes)  |
| **Lectures:****Semester 6**(1&2) Endodontium – structure, functions, treatment implication. Pulp diseases (reversible, irreversible), etiopathomechanism, classification, clinical and radiological symptoms, diagnosis, differential diagnosis (3&4). Reversible pulpopathy (choice of biological treatment, indication and contra-indication, mechanism of odontotropic agents, pulp healing, course treatment, outcomes, complications)(5&6) Treatment of irreversible pulpopathy. Root canal treatment stages (access, working length, chemo-mechanical preparation, root canal obturation). (7&8). Root canal treatment stages (access, working length, chemo-mechanical preparation, root canal obturation) – continued(9&10) Treatment of infected root canals (preparation, disinfection). Early and late complication in endodontic treatment (prevention, therapeutic procedures), control of efficacy of endodontic treatment). Local analgesia in operative treatment.(11&12) Periapical diseases – etiopathomechanism, clinical and radiological symptoms and features, differential diagnosis, treatment, outcomes, prognosis. First aid in endodontics, root canal re-treatment.(13&14) Resorption - etiopathomechanism, clinical and radiological symptoms and features, therapeutic treatment, prognosis. Endo-surgical treatment (apicotomy, hemisection, radectomy, bicuspidation, autoreplantation – method selection, treatment procedure, prognosis.(15) Students` request topic. |
| **Seminars:****Semester 5****1.**Oral clinical examination – teeth (caries, developmental and acquired abnormalities, non-carious dental defects), periodontal tissues (healthy tissues and pathological changes of periodontal tissues), oral mucosa, salivary glands. Investigations. Indices of dental caries, hygiene, dental plaque and periodontal tissues condition. Dental plaque, calculus – detection, removal. Oral hygiene instruction, dietetic instruction.Oral signs and symptoms of HIV infection.**2.** Caries epidemiology, and aethiology, signs and symptoms; coronal and root caries; primary and secondary (recurrent) caries. Detection of the early caries lesion, making decision on invasive or non-invasive treatment. Intraoral radiograms using isometry, plain angle, bitewing techniques; digital radiography; caries detection with the use of radiograms. **3.** Contemporary rules of the cavity preparation for adhesive and non-adhesive dental restorative materials. Preventive restorative treatment – classification, principles, (sandwich technique, slot technique, tunnel techniques, preventive resin restoration –PRR 1 and PRR 2). Non-conventional methods of cavity preparations (CMCR- chemomechanical caries removal, ART- atraumatic restorative treatment, air abrasion technique – kinetic cavity preparation -KCP, sonic system, laser and ozone therapy). Introduction to periodontology (etiopathomechanism, classification, signs and symtomps). **4.** 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. Indication and application of calcium hydroxide and MTA. **5**. Modern adhesive systems (IV-VII generation). Conventional and resin modified glass ionomers; polymerization process; Types of light-curing units and polymerization techniques. Layering techniques- types, advantages and disadvantages.  |
| **Classes****Semester 5**1.Clinical examination of the patient. Medical and dental history, extraoral and intraoral examination (students examine themselves). Communication with the patient. Patient’s motivation. Dental health forms.2. Repetition-testing the knowledge acquired during the third and fourth semester Clinical examination of the patient3. Indices of dental caries, oral hygiene, dental plaque and periodontal condition. Oral hygiene instructions. Oral symptoms of HIV infection. Form of credit: essay4. Conservative dental treatment of the patients.5. Caries –aetiology ,classification,, sign and symptoms, treatment. Detection of early caries lesions. Intraoral radiograms ( isometry, plain angle, bitewing technique, digital radiography.Form of credit : essay.6. Interpretation of intraoral radiograms7. Conservative dental treatment of the patients.8. Modern rules of cavity preparation. Preventive restorative treatment – classification, principles, Non-conventional preparations of carious lesions. Form of credit : essay.9. Conservative dental treatment of the patients.10. Restorative dental materials – cements, compomers composites, amalgams, resin modified glassionomers11.Conservative dental treatment of the patients12. Fissure sealants , varnishes , coatings , Calcium hydroxide , MTA – composition properties indications advantages Form of credit N0 10 and 12: essay.13.Adhesive systems ( 4-7generation).Techniques of placement restorative materials –advantages and disadvantages. Polymerization techniques, types of light curing units. Form of credit : essay.14.Conservative dental treatment of the patients. 15. TEST for completing the course.Conservative dental treatment of the patients.**Semester 6**1**.** Repetition of cariology. Form of credit: essay.Conservative dental treatment of the patients.2. Clinical oral investigation – questionnaire, indices, differential diagnosis, investigation, treatment planning, treatment options, disclosing plaque (by stains). Conservative dental treatment of the patients. Form of credit: essay3**.** Emergency cases in dental office – first aid. Form of credit: essay.Conservative dental treatment of the patients.4. Determination of working tooth length by endometric (2 kinds of endometrs) and radiologic methods (radiogram made by plain angle and by Cieszynski isometry). Form of credit: essay Conservative dental treatment of the patients.5. Presentation of electrosterilization procedures. Conservative dental treatment of the patients.6. Presentation of therapy using laser.7. Conservative dental treatment of the patients.8. Diagnosis of caries lesions by Diagnodent device. Conservative dental treatment of the patients.9. Basic learning problems in tutorials after seminars and lectures. Conservative dental treatment of the patients.10. Conservative dental treatment of the patients.11.Conservative dental treatment of the patients.12. Conservative dental treatment of the patients.13. Conservative dental treatment of the patients.14. Conservative dental treatment of the patients.15. Make up of backlog. Credit of subject (6th semester). |
| **Other:** |
| **Core literature:** (according to relevance, no more than three titles)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. Tronstadt L.: Clinical endodontics: a textbook. 2nd ed. Georg Thieme Verlag, Stuttgart 2009.
4. Ingle J.I., Bakland L.K., Baumagartner J.C.: Endodontics . 6Th ed. 2008.
5. Powers J.M., Wataha J.C.: Dental materials. Properties and manipulation. Elsevier 10th ed. 2013.

**Supplementary literature and other aids** (no more than three titles)1. Mostofsky D., Forgione A., Giddon D.(ed.): Behavioral Dentistry. Blackwell Publishing 2006
2. Cohen S., Hargreaves K.M.: Pathways of the pulp. 10th ed. Mosby Elsevier 2011.
3. Roberson T.M., Heymann H.O., Swift Jr. E.J. (ed.): Sturdevant’s art and science of operative dentistry. 5th ed. Elsevier Mosby, St. Louis 2006.
4. Summitt J.B. [et al.] (ed.): Fundamentals of operative dentistry: a contemporary approach. 3rd ed. Quintessence Publ., Chicago 2006.
5. Scully C., Kalantzis A.: Oxford Handbook of Dental Patient Care. Oxford University Press, 2nd edition 2005.

**Detailed list of literature is provided to the student at the tutorials** |
| **Requirements regarding teaching aids:** (e.g. laboratory, multimedia slide projector, other)dental camera, multimedia projector, computer , models |
| **Initial conditions:** (minimal conditions to be fulfilled be a student before signing up for the module/course)Student is admitted to 3rd year classes after successful completion of the final preclinical exam summarizing knowledge of the subject from the 2 nd year. |
| **Terms of passing a given course:** (please define the form and terms of passing given classes falling within the scope of the module/course, rules for allowing students to sit final theoretical and/or practical exam, its form and requirements that students must meet in order to pass it as well as criteria applicable to each grade) The excused absence - the duty of the abandoned classes execution above 10% ( acc. to the Study regulation)The absence in the seminary - the credit of material termly 2 weeks The periodic control of the knowledge during and after the end of the thematic module. The admission to the credit takes place on the basis of obtainments of standard norm of dental procedures and the test - and oral checking of the theoretical knowledge.**Treatment procedures on 3rd year (both semesters ):*** investigation (filled in questionnaire) for each new patient
* radiological diagnosis – 4 radiograms (carietic and endodontic lesions), digital radiography analysis - 1 radiogram
* hygienic & dietetic instruction (presentation) 5 and at each new patient
* preparation and restoration of 10 cavities
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| **Grade:** | **Criterion for assessment:** (applies only to courses/modules ending with an exam) |
| 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 |
| excellent(4,0) | achievement of intended learning outcomes, with omitting some of the less important aspects |
| fairly good (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 the unit in charge of module/course, contact (phone number and email address)**

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**A list of persons giving particular classes including: full name, degree/academic or professional title, field of science, profession, form of classes**

Prof. Urszula Kaczmarek, DDS, PhD Dentistry, dentist - lectures

Joanna Kobierska-Brzoza, PhD Dentistry, dentist- seminars, classes

Agnieszka Czajczyńska-Waszkiewicz, BDS Dentistry, dentist- classes

Dagmara Piesiak-Pańczyszyn,BDS Dentistry, dentist seminars, classes

Kowalczyk-Zając Małgorzata, PhD Dentistry, dentist seminars, classes

Andżelika Szymonajtis, BDS Dentistry, dentist seminars

Tomasz Staniowski PhD Dentistry, dentist seminars

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| **Prepared by:** | **Revised by:** |
| Agnieszka Czajczyńska-Waszkiewicz, BDS15.10.2014 | Katarzyna Jankowska, PhD  |
|  |  |
| **Signature of the Head of unit in charge of classes**  |
| ………………………………………….. |
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