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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** | IV | Semester | 7,8 |
| **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 7** | **sem 8** |
| Lectures (WY) | 15 | 15 |
| Seminars (SE) |  |  |
| Auditorium classes (CA) |  |  |
| Major classes - non-clinical (CN) |  |  |
| Clinical classes (CK) | 75 | 75 |
| 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** | **90** | **90** |
| **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), test (P) | WY,CK  |
|  **W02** | **F.W.2** | To explain the principles of preventive-treatment procedures in oral diseases  | Oral response (F) | WY,CK  |
|  **W03** | **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)  | CK |
|  **W04** | **F.W.7** | To describe the principles of minimally invasive treatment  | Oral response (F), test (P) | WY,CK |
| **W05** | **F.W.7** | To define and explain the principles in management of pulp diseases  | Oral response (F), test (P) | WY,CK |
| **W06** | **F.W.8** | To define and explain the principles in management of periapical diseases | Oral response (F), test (P) | WY,CK |
|  **W07** | **F.W.7** | To describe and understand the indications to re-treatment in cariologic and endodontic cases  | Oral response (F), test (P) | WY,CK |
|  **W08** | **F.W.13** | To define the indications and contraindications for esthetic dentistry procedures | Oral response (F), test (P) | WY,CK |
| **W09** | **F.W.22** | To describe and understand the relationships between oral health status and systemic diseases | Oral response (F), test (P) | WY,CK |
| **U01** | **F.U.1**  | To gather medical and dental history from the patient  | 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) | WY, 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) | WY, 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  | observation (F) | 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) | 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 7 | sem 8 |
| 1. Contact hours  | 90 | 90 |
| 2. Time dedicated to student's own work  |  |  |
| Total student's workload  | 90 | 90 |
| **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 7**(1&2) Dentin hypersensistivity – etiopatomechanism, symptoms, treatment, efficacy, prevention(2&3 and 4&5) Developmental dental abnormalities (number, size, shape, tissues structure, color, etiology, pathomechanism, clinical and radiological symptoms and signs, differentiation, therapeutic procedures)(6&7) Teeth wear - non-carious defects of hard tissues dental (abrasion, erosion, attrition abfraction – definition, etiology, mechanism, prevalence, clinical signs and symptoms, therapeutic procedures, prevention)(8&9) Teeth discoloration etiology, mechanism, clinical signs and symptoms, therapeutic procedures, prevention)(10&11) Adhesion for enamel and dentin, adhesive systems. (12&13) Dental restorative materials, optimal choice of restorative material in particular class of cavity; methods of polimeryzation, and layering. Aids of retention restoration (cuts in cavity preparation, pins, posts) (14) Esthetic reconstruction of dental hard tissues (resin composite direct veneering (freehand) closing diastemas, correction of dental crown malformation, bonding amalgam and composite, bonding fractured piece of dental crown by adhesive system and adhesive material).(15). Non-conventional methods of caries cavity preparation**Semester 8**(1&2 and 3&4)) Oral health promotion – models of health promotion ( health care, health education, prevention) the WHO basic methods of oral health surveys, oral health indices - DMFT, SiC, CPI and others, global goals of oral health proposed by the WHO/FDI; global data of the WHO, regional epidemiological data, comparison of caries epidemiological situation between countries  (4&5). Modern concepts and strategies of dental caries prevention (6&7) Caries risk assessment and prognosis of carious lesions development (8&9) Practical use of Cariogram – the interactive computer programme for evaluation of caries risk assessment and individually designed preventive measures. Patient motivation for pro healthy actions.(10) Communication with the patient. (11&12) Individual - at home and professional caries preventive procedures (13&14) The role of fluoride in oral health promotion; modern concepts of fluoride cariostatic mechanisms(15) Students` request topic |
| **Classes****Semester 7**1.Presentation of the rules for tutorials and crediting. Patient motivation. Communication with the patient. Pro health education. Repetition of theoretical knowledge from the 3rd year. 2.Repetition test from the 3rd year (cariology and endodontics) – test**.** Cariology- etiopathogenesis, classification, clinical picture. Materials and methods of carious lesions treatment. Endodontics- Anatomy and morphology of pulp chambers and root canal’s systems. Diagnostic and classification of pulp diseases. Instruments used in endodontic treatment. Isolation: rubber dam.3.Dentin hypersensitivity –Form of credit: essay**.** Conservative dental treatment of the patients.4.Endodontics: Determination of the working length using different methods: a) radiological method (Ingle’s method) b) endometry (disadvantages, advantages, common mistakes). Endodontic radiography. Form of credit: essay. Conservative dental treatment of the patients. 5.Developmental teeth abnormalities **-** Form of credit: essay**.**Conservative dental treatment of the patients6.Endodontics: chemo-mechanical preparation of root canal, materials and mode of action. Materials used for temporary obturation of root canal. Form of credit: essay. Conservative dental treatment of the patients.7.Wear of the teeth - Form of credit: essay**.** Conservative dental treatment of the patients.8.Endodontics**:** Mechanical preparation of root canals. Methods: a) step-back and conventional, b) crown-down. The use of ultrasound method**.** Form of credit: essay**.** Conservative dental treatment of the patients.9.Teeth discoloration. Form of credit: essay**.** Conservative dental treatment of the patients.10.Endodontics**:** Obturation of root canals: materials and methods**.** Form of credit: essay. Conservative dental treatment of the patients.11. Adhesion for enamel and dentin, adhesive systems -Form of credit: essay**.** Conservative dental treatment of the patients.12. Esthetic reconstruction of dental hard tissues. Form of credit: essay**.** Conservative dental treatment of the patients.13. Non-conventional methods of caries cavity preparation**.** Form of credit: essay. Conservative dental treatment of the patients.14. Final test from 7th semester. Basic learning problems in tutorials after seminars and lectures.15. Make up of backlog. Conservative dental treatment of the patients. Credit of subject (7th semester).**Semester 8**1. Conservative dental treatment of the patients.2. Conservative dental treatment of the patients.3. Oral health promotion – models of health promotion ( health care, health education, prevention) the WHO basic methods of oral health surveys, oral health indices - DMFT, SiC, CPI and others, global goals of oral health proposed by the WHO/FDI – essay. Conservative dental treatment of the patients.4. Conservative dental treatment of the patients.5. Modern concepts and strategies of dental caries prevention – essay. Conservative dental treatment of the patients.6. Caries risk assessment and prognosis of carious lesions development – essay. Conservative dental treatment of the patients.7. Practical use of Cariogram – the interactive computer programme for evaluation of caries risk assessment and individually designed preventive measures- essay. Conservative dental treatment of the patients. 8. Conservative dental treatment of the patients.9. Patient motivation for pro healthy actions- essay. Conservative dental treatment of the patients.10. Communication with the patient – essay. Conservative dental treatment of the patients.11. Conservative dental treatment of the patients.12. Individual - at home and professional caries preventive procedures - essay. Conservative dental treatment of the patients.13. The role of fluoride in oral health promotion; modern concepts of fluoride cariostatic actions - essay.Conservative dental treatment of the patients.14. Basic learning problems in tutorials after seminars and lectures. Make up of backlogs. Conservative dental treatment of the patients.15.Final test from 8th semester. Credit of subject (8th 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. Toarbinajad M., Walton R.E.: Endodontics, principles and practice. 5th ed. Sauders Elsevier 2009.
4. Tronstadt L.: Clinical endodontics: a textbook. 2nd ed. Georg Thieme Verlag, Stuttgart 2009.
5. Ingle J.I., Bakland L.K., Baumagartner J.C.: Endodontics . 6Th ed. 2008.
6. 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. Ingle J.I.: Endodontics: text and CD-ROM for Macintosh and Windows. Decker B.C., Hamilton 2005.
6. 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 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. |
| **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.T**reatment procedures on 4th year (both semesters ):*** investigation (filled in questionnaire) 5 and at each new patient
* radiological diagnosis – 4 radiograms (carietic and endodontic lesions), digital radiography analysis - 1 radiogram
* hygienic & dietetic instruction (presentation) for each new patient
* preparation and restoration of 15 cavities: 1-surface x 5; 2-surfaces 5; 3x surfaces 5
* endodontic treatment of 4 root canals
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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- classes

Agnieszka Czajczyńska-Waszkiewicz, BDS Dentistry, dentist- classes

Dagmara Piesiak-Pańczyszyn,BDS Dentistry, dentist classes

Kowalczyk-Zając Małgorzata, PhD Dentistry, dentist classes

Andżelika Szymonajtis, BDS Dentistry, dentist classes

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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**  |
| ………………………………………….. |