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| **Syllabus for academic year 2014/2015** |
| **Part A - Description of the subject of education**  |
| **Name of module/course** | **Preclinical conservative dentistry** | **Group of specific learning outcomes**  |
| **Group code** **C** | **Group name** **III-Preclinical study** |
| **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 **X** |
| **Year of studies** | II | Semester | 3 |
| **Type of course** | mandatory **X**  optional  |
| **Rank of course** | principal **X** basic **X** |
| **Language of instruction** | Polish English **X** other  |
| \* mark as appropriate changing into **X** |
| **Form of education** | **Number of hours** |
| Lectures (WY) | 0 |
| Seminars (SE) | 15 |
| Auditorium classes (CA) | 0 |
| Major classes - non-clinical (CN) | 60 |
| Clinical classes (CK) | 0 |
| Laboratory classes (CL) | 0 |
| Specialist - master's classes (CM) | 0 |
| Simulated classes (CS) | 0 |
| Language courses (LE) | 0 |
| Practical classes with patient (PP) | 0 |
| Physical education classes - mandatory (WF) | 0 |
| Professional training (PZ) | 0 |
| Self-education | 75 |
| Other | 0 |
| **In total** | **150** |
| **Educational goals:** G.1**.** To obtain the basic knowledge on carious processG.2 To obtain the basic theoretical and practical knowledge regarding dental treatment and caries lesions restoration, restorative materials and restorations placement on phantom patient. |
| **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  |
| **W 01** | **C.W.26** | To define caries disease | Oral response,(F), test (P), OSCE | SE,CN (S) |
| **W02** | **C.W. 25** | To describe and explain the principles of conventional and adhesive preparation of all classes of dental cavities according Blacks classification | Oral response,(F), test (P),discussion (F), OSCE | SE,CN |
| **W03** | **C.W. 24** | To describe properties of dental restorative materials and their clinical application | Oral response,(F), test (P),discussion (F), OSCE | SE,CN |
| **W04** | **C.W.28** | To characterize of methods of decay restoration of all cavities classes according to Black classification | Oral response,(F), test (P),discussion (F), OSCE | SE,CN |
| **W05** | **C.W. 27** | To explain the goal and performance of pits and fissures sealing | Oral response,(F), test (P),discussion (F), OSCE | SE,CN |
| **W06** | **C.W. 26** |  To describes and differentiates the loss of hard tissue of non-caries origin | Oral response,(F), test (P),discussion (F), OSCE | CN |
| **U01** | **C.U 05** | To perform preparation of all cavities classes according to Black classification on phantom patient | Observation, Assessment OSCE-test (P) | CN |
| **U02** | **C.U 12** | To perform restoration of all cavities classes according to Black classification | Observation, Assessment OSCE-test (P) | CN |
| **U03** | **C.U 11** |  To elect restorative materials and connecting based on the properties of materials and the clinical conditions of the caries and non caries cavities  | Observation, Assessment OSCE-test (P) | CN |
| **U04** | **C.U4** | To be able to indicate own errors in the reconstruction of the tooth decay and give the way of their correction | Observation, Assessment OSCE-test (P) | CN(S) |
| **U05** | **C.U5** | To be able to work with the simulated patient in laying position by use in proper way the dental instruments | Observation, Assessment OSCE-test (P) | CN |
| **U06** | **C.U 10** | To be able to seal pits and fissures | Observation, Assessment OSCE-test (P) | CN |
| **K 01** | **K 01** | To be able to create rules of the professional comradeship and the cooperation with representatives of other health care professionals | Observation | CN |
| **K02** | **K02** | To cooperate in the group of professionals, in the environment multicultural and multinational | Observation | CN |
| **K03** | **K03** | To aware of its own restrictions and is able to plan educational activity | Observation | CN |
| \*\*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)**  |
| 1. Contact hours  | 75 |
| 2. Time dedicated to student's own work  | 75 |
| Total student's workload  | 150 |
| **The ECTS credits per module/subject**  | 5 |
| 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)  |
| **Seminars****Semester 3**1.Etiopathogenesis of the tooth decay, microscopic and macroscopic picture, the division of clinical, non-invasive and invasive treatment 2 Principles of the development of carious lesions of all classes by Black- conventional and adhesive 3 Materials for reconstruction of hard tissues of the tooth-distribution, properties and applications 4 Dental lesions of non-carious origin.5 Hygiene and safety principles during dental procedures. |
| **Classes****Semester 3**

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| **Classes topics in detail:** | **Demonstration** | **Practical** |
| **(1)** | 1)Holder for hand instruments2)Dental handpiece grip3) Proper finger support 4) Cutting technique5) Keeping ergonomic posture and the proper distance between the phantom patient and the operator, | 1) Drilling in different types of materials (glass, wood, plastic, gypsum). Preparation of given shape in gypsum2.Preparation predetermined shape in the teeth, plaster, acrylic: shape round-diameter-from 2 to 3 millimeters depth of from 1 to 3-4 millimeters, oval, square, trapezoidal shape with different depths**Attention**Cariogenesis – metabolism of sugers (biochemistry) - homework |
| **(2)** | 1) Keeping ergonomic posture and the proper distance between the phantom patient and the operator,2) Fissure sealing, widen fissure sealing (permanent natural teeth) – PRR A3) Preparation of small Class I cavity for preventive resin restoration - PRR B4) Class I cavity preparation for composite and amalgam filling and fill it with temporary filling. | 1) Fissure sealing of permanent natural teeth2) Widen fissure sealing (permanent natural teeth) – PRR A3) Preparation of small Class I cavity as preventive resin restoration - PRR 4) .Class I cavity preparation – composite (simple, complex, maxilla, mandible, molar, premolar and fill with use of temporary material)5 Class I cavity preparation – amalgam (simple, complex, maxilla, mandible, molar, premolar and fill with use of temporary material)6) Name all stages of cavity preparation, cavity walls, tools.7)Precisal modeling of the occlusal surface for a temporary fillingAttentionTemporary filling |
| **(3)** | 1. Ergonomic posture during operative procedures (distance between dentist eye and tooth)2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Cavity Class I adhesive preparation and restoration by composite4. Cavity Complex Class 1 adhesive preparation and restoration by liner and composite | 1. Preparation and restoration Class I cavities for composite (simple, complicated; maxilla, mandible; molar and premolar)2. Preparation and restoration Class I cavities for amalgam filling (simple, complicated; maxilla, mandible; molar and premolar)3. Names of all steps of cavity preparation |
| **(4)** | 1. Ergonomic posture during operative procedures (distance between dentist eye and tooth)2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Cavity Class II preparation and restoration by amalgam4. Cavity Class II preparation (matrices and retainers - types and application, wedges, proximal contacts) and restoration by liner and amalgam with proximal contacts and occlusal surface modeling | 1. Preparation and restoration 2 Class I cavities (simple, composed; maxilla, mandible; molar and premolar) and 1 Class II cavity2. Preparation and restoration 2 Class II cavities with reconstruction of occlusal surface3. Names of all steps of cavity preparation4. Before composite restoration filling by temporary materials5. Modeling occlusal surfaces.6.Preparation of simple Black II (maxilla or mandible, molar or premolar) for an amalgam filling and a temporary filling. |
| **(5)** | 1. Ergonomic posture during operative procedures (distance between dentist eye and tooth)2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Rubber dam application in posterior and anterior upper and lower teeth 4. Preparation and restoration 1 Class II cavities by sandwich technique5. Cavity preparation class II, an appropriate matrix and wedge point of contact, contouring matrix, leak test, backing and filling amalgam of carving and modeling occlusal contact surface6. Cavity preparation type the MOD and MOD composite filling | 1.Removing of temporary filling of the Black I 2.Continuation of preparation and filling composite (composite, maxilla or mandible, molar or premolar)3 Continued preparation and amalgam filling one cavity class I (straight, maxilla or mandible, molar and premolar)4 Name all stages of cavity preparation, cavity walls, tools5.Modeling of occlusal surface6. Temporary fillings 7 Preparation of simple Black II (maxilla or mandible, molar or premolar) under the assumption of an amalgam filling and a temporary filling. |
| **(6)** | 1 Keeping ergonomic posture and the proper distance between the phantom patient and the operator,2 Position the patient and the operator to work in the maxilla and mandible3 Filling a cavity MOD, MOD6 sandwich technique7 Slot preparation and Tunnel preparation8 The demonstration of primers, bonds and eaching-gels9 Temporary fillings - presentation, application10 Liner- when to use | 1 Cavity preparation class II (maxilla, mandible, molar), filling sandwich (open sandwich)2 Cavity preparation class II MOD (maxilla, mandible, molar), filling sandwich or composite3 Extensive MOD cavity preparation and filling (maxilla or mandible, molar), filling sandwich or composite4 Cavity preparation class II-type of simple and composite filling5 Before completion the final fill temporary |
| **(7)** | 1. Ergonomic posture during operative procedures (distance between dentist eyes and tooth)2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Rubber dam placement in posterior and anterior upper and lower teeth 4) Preparation and restoration Class III cavities for composite | 1 Preparation and filling of two cavities class III - simple and complex-(maxilla, mandible)2 GI cement filling one for class III (maxilla or mandible)3 Fill one decay of Class III by open-sandwich method, recommended canine3 Name all stages of cavity preparation, cavity walls, tools4 Before completing the final fill temporary |
| **(8)** | 1. Ergonomic posture during operative procedures (distance between dentist eyes and tooth)2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Explanation of factors influencing on outline, resistance and retention shape in cavity Class 4 preparation; cutting of enamel ridge – feathery and chamfer | 1. Preparation of 2 Class III cavities (maxilla and mandible) 2. Preparation and restoration of 2 Class IV cavities using feathery and chamfer cutting of enamel ridge (incisors in maxilla)3. Names of all steps of cavity preparation, walls and instruments |
| **(9)** | 1. Ergonomic posture during operative procedures (distance between dentist eye and tooth)2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Explanation of factors influencing on outline, resistance and retention shape in cavity Class 4 preparation; cutting of enamel ridge – feathery and chamfer | 1. Preparation of 2 Class IV cavities (maxilla and mandible) sandwich technique2. Preparation and restoration of 2 Class IV cavities using feathery and chamfer cutting of enamel ridge (incisors in maxilla)4. Posttraumatic reconstruction4. Names of all steps of cavity preparation, walls and instruments |
| **(10)** | 1. Ergonomic posture during operative procedures (distance between dentist eye and tooth)2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Conventional and adhesive preparation of Class V cavity4. Reconstruction of noncarious lesions | 1. Preparation of 3 Class V preparation (maxilla, mandible, molar), restoration by composite, glass-ionomer (sandwich technique) and amalgam 2. Preparation noncarious lesion and restoration by flow composite3. Names of all steps of cavity preparation |
| **(11)** | 1. Ergonomic posture during operative procedures (distance between dentist eye and tooth)2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Conventional and adhesive preparation of Class V cavity4. Reconstruction of noncarious lesions | 1. Preparation of 3 Class V preparation (maxilla, mandible, molar), restoration by composite, glass-ionomer (sandwich technique) and amalgam 2. Filling with composit, GI and amalgam3. Names of all steps of cavity preparation |
| **(12)** | 1. Ergonomic posture during operative procedures (distance between dentist eye and tooth)2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Conventional and adhesive preparation of Class V cavity4. Reconstruction of noncarious lesions | 1 Preparation of two noncarious cavities .2 Filling with composite, glass-ionomer cement and amalgam3. Preparation of one anterior tooth crown fractures and fill method of direct composite |
| **(13)** | 1. Rubber dam2. Diagnodent | 1. Rubber dam2. Matrices |
| **(14)** | Preparation and construction of inlay (Class II, composite, direct restoration)CAD/CAM presentation | Preparation and construction of inlay (Class II, composite, direct restoration)CAD/CAM preparation |
| **(15)** |  | 1. In order to pass all 14 cavities of Classes Black and 4 non caries origin cavities. 2.Self-evaluation effects of practical and theoretical3. Credit of course  |

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| **Other:** |
| **Core literature:** (according to relevance, no more than three titles)1. Sturdevant's art and science of operative dentistry / ed. Theodore M. Roberson, Harold O. Heymann, Edward J. Swift. - 6th ed.. - St. Louis : Mosby , 20122. Kidd E.A.M. Smith B.G.N., Pickard H.M.: Picard`s Manual of operative dentistry.9. ed. Oxford Medical Publication 2011.3. Kidd E.A.M.. Joyston-Bechal S. : Essentials of dental caries. 3 ed. Oxford University Press, Oxford 2005**Supplementary literature and other aids** (no more than three titles)1. . Powers J.M., Wataha J.C. Dental Materials: Properties and Manipulation, Mosby 2012 |
| **Requirements regarding teaching aids:** (e.g. laboratory, multimedia slide projector, other)multimedia projector, phantoms (simulated patient), endodontic blocks, models, camera, a local computer network |
| **Initial conditions:** (minimal conditions to be fulfilled be a student before signing up for the module/course)The student should know the anatomy and histology of teeth based on subjects from the I 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) Presence on seminars and classes in accordance with the rules of study and rules of procedure of the Department of Conservative Dentistry and Pedodontics. Admission to credit is based on the implementation of certain procedures (that is, 14 cavities according to Black, and 4 cavities of non caries origin) and the positive evaluation of the oral response (debate, discussion, presentation) and test validation of knowledge.Preclinical dentistry is the part of the exam allowing student to exercise on clinical OSCE. |
| **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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stomzach@umed.wroc.pl

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

Andżelika Szymonajtis, BDS - dentistry, dentist – seminars, classes

Tomasz Staniowski PhD - dentistry, dentist – seminars, classes

Wojciech Grzebieluch PhD - dentistry, dentist- seminars, classes

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| **Prepared by:** | **Revised by:** |
| Agnieszka Czajczyńska-Waszkiewicz, BDS15.109.2014 | . Katarzyna Jankowska PhD |
| **Signature of the Head of unit in charge of classes**  |
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