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**TBILISI HUMANITARIAN TEACHING UNIVERSITY**

 ***SILLABUS***

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| ***Name of educational course*** | *Phantom odontology* |
| ***Code of educational course*** | *STOM0401DM* |
| ***Status of educational course*** | ***C****ompulsory course**for the one-cycle higher educational Programme-Dentistry* |
| ***ECTS*** | ***4 credits. Total: 100 hours****Contact Hours–40 hours (Class Meeting Time Period: 13L/23 Pr) + 4 hours (Midterm:2h and Final Examinations 2h):**Individual Work-60 hours* |
| ***Lecturer***  | *Nana Tsitskishvili,THTU invited lecturer, 593496072,* *tsitskishvilinana5@gmail.com*Mariam Gogoberidze- Affiliate assistent THU*Consultation days: according to consultation schedule* |
| ***Goal of educational course*** | *The goal of the course is to teach the studentsthe structure of soft and hard tissues of oral cavity-lips, cheeks, gums, palate, teeth, maxillary and mandibular jaws, structure and composition of saliva and salivary glands, microbioma and acquisition of principles of preparation of cavity of I, II, III, IV, V, VI classes by Black, preparation techniques with non invasive methods aims at establishment of basic knowledge for acquisition of following courses.**The course aimed* ***to reinforced/practiced*** *the student on Perform and practice practical procedures effectively and safely; Demonstrate a working knowledge of the socio-cultural context of health care; Identify the oral health care needs of patients**Apply appropriate diagnostic processes; Demonstrate and apply critical thinking to practice problems; and* ***to mastering*** *the student on* *Use effective communication skills and styles; Provide effective and safe patient assessment and management.* |
| ***Precondition for admission***  | *Anatomy 2* |
| ***System of students’ assessment*** | ***The assessment system at the Tbilisi Humanitarian Teaching University is divided into the following components:****Out of the total score (100 points) the intermediate assessment makes totally 60 points that are distributed as follows:****A student’s activity during the educational semester*** *-30 points;****Intermediate exam*** *- 30 points;****and the final exam*** *- 40 points.The limit of minimum competence in the component of intermediate assessments totals at least* ***18 points.****The limit of minimum competence of the final assessment is* ***50%*** *of the total sum of the final assessment, i.e.* ***20 points out of 40 points.******The assessment system allows:******A) Five types of positive assessment:****a.a)* ***(A) Excellent*** *- 91-100 points of the assessment;**a.b)* ***(B) Very good*** *- 81-90 points from maximum marks;**a.c)* ***(C) Good*** *- 71-80 points from maximum marks;**a.d)* ***(D) Satisfactory*** *- 61-70 points from maximum marks;**a.e)* ***(E) Sufficient*** *- 51-60 points from maximum marks.****B) Two types of negative assessment:******b.a) (FX) Did not pass*** *- 41-50 points from maximum marks, which means that a student needs harder work to pass and is granted one additional attempt with independent work;****b.b) (F) Fail-*** *40 points and less from maximum marks, which means the performance a student is not sufficient and he/she has to learn the subject from the beginning.**Bb) (F) - Fifty points and less than maximum score, which means that the work performed by the student is not enough and he has to learn the subject from the beginning.1. In case of one of the negative assessments: (FX) Did not pass, the Teaching University shall appoint an additional exam within at least 5 days after the final exam results are announced and reflected in the exam table.2. The assessment received at the additional exam is the student's final assessment, which does not reflect the negative points received at the basic final exam.If the student receives at the additional exam from 0 to 50 points, (F) -0 score will be recorded in the student’s final examination record list.*  |
| ***Content of educationla course*** | *See Appendix 1* |
| ***Assessment forms/methods/******criteria/activities*** | ***Activity - 30 scoring points.******Verbal presentation of theoretical material - 24 scoring points.****Is assessed 12 times during the current verbal exam during the supervision, each is assessed with a maximum of 2 scoring points.* *Assessment criteria:**2 scoring points: The student demonstrates complete, convincing and detailed knowledge of the material, freely uses specific terminology, discusses logically, actively uses information from the past material, is interactive**1 scoring point: The student demonstrates imperfect, unconvincing knowledge of the material, has difficulty in reasoning logically.**0 scoring point: The student has not used the material, is passive, the material is not reviewed.**Situational task review - 4 scoring points, once during the supervision**The criteria for participating in reviewing situational tasks are:**4 scoring points - the student understands the situation well, demonstrates the theoretical knowledge he / she uses in making decisions;**4 scoring points - the student understands the situation well, demonstrates the theoretical knowledge he / she is not able to make independent decisions;**2 scoring points - the student understands the situation , demonstrates the general theoretical knowledge he / she is not able to make correct decisions;**1 scoring point - the student understands the situation, but due to lack of theoretical knowledge makes intuitive decisions**0 scoring point - the student does not understand the situation at all or does not participate at all.**Discussion/debates - 2 scoring points, once during the supervision****Assessment criteria:*** *2 scoring point: A student is well prepared, he/she is able to express his/her own opinion around the discussion topic, to organize and hold debates, identification of opposition and logical mistakes in the reasoning of participants, assessment of discussion products.**1 scoring point: A student is not prepared well, he/she is able to express his/her own opinion around the discussion topic, to organize and hold debates, identification of opposition and logical mistakes in the reasoning of participants, assessment of discussion products.* *0 scoring point: A student is prepared, but he/she does not take part in the discussion.****Preliminary quiz is combined: - 30 scoring points****It is performed in the form of testing - maximum scoring points 15, there are 15 test tasks, each correct answer is praised by 1 scoring point, and the incorrect answer - 0 scoring point.**c) verbal exam - 15 scoring points - each ticket containing closed questions will be given 3 closed questions / topics, each closed question / topic is evaluated with 0-5 scoring points.****Criteria for evaluating a 5-scoring point verbal exam:******5 scoring points*** *The answer is complete; the issue is conveyed accurately and exhaustively; The terminology is kept. The student has a thorough knowledge of the past material provided by the program, has a good mastery of both basic and supplementary literature, demonstrates a good ability to analyse and generalize.****4 scoring points:*** *The answer is complete but shortened; Terminologically correct; The issue is exhaustively conveyed; There is no substantial error; The student is well versed in the past material provided by the program; Has the mastery of the basic literature, demonstrates the ability to analyse and generalize.* ***3 scoring points:*** *The answer is incomplete; The issue is satisfactorily conveyed; The terminology is imperfect; The student possesses the material provided by the program, but with a few errors noted, weak analysis of the issue presented by him/her.****2 scoring points:*** *The answer is incomplete; The terminology is erroneous and inaccurate; Relevant material on the issue is presented partially; The student has insufficiently mastered the basic literature; Several substantive errors are noted. Due to insufficient theoretical training, the student finds it difficult to analyse the material in practice and draw valid conclusions.****1 scoring point:*** *The answer is not perfect; The terminology is not used, or is not relevant; The answer is fundamentally wrong. Only separate fragments of the relevant material are presented. The student is unable to analyse practical material.* ***0 scoring point:*** *The answer to the question is not relevant or not given at all.****Final exam combined- 40 scoring points****It is conducted in the written (test) form Maximum. 25 - scoring points**The test consists of 25 closed-end questions. For each question there are four answers given, and among them only one answer is correct.* *The correct answer shall be circled around.* *Each correctly circled test shall be assessed by 1 scoring point,* *Each incorrectly circled /marked/non-filled test shall be assessed by 0 scoring point.**Verbal - 15 scoring points - each ticket containing closed questions will be given 3 closed questions / topics, each closed question / topic is evaluated with 0-5 scoring points.****Criteria for evaluating a 5-scoring point verbal exam:******5 scoring points*** *The answer is complete; the issue is conveyed accurately and exhaustively; The terminology is kept. The student has a thorough knowledge of the past material provided by the program, has a good mastery of both basic and supplementary literature, demonstrates a good ability to analyse and generalize.****4 scoring points:*** *The answer is complete but shortened; Terminologically correct; The issue is exhaustively conveyed; There is no substantial error; The student is well versed in the past material provided by the program; Has the mastery of the basic literature, demonstrates the ability to analyse and generalize.* ***3 scoring points:*** *The answer is incomplete; The issue is satisfactorily* *demonstrated; The terminology is imperfect; The student possesses the material provided by the program, but with a few errors noted, weak analysis of the issue presented by him/her.****2 scoring points:*** *The answer is incomplete; The terminology is erroneous and inaccurate; Relevant material on the issue is presented partially; The student has insufficiently mastered the basic literature; Several substantive errors are noted. Due to insufficient theoretical training, the student finds it difficult to analyse the material in practice and draw valid conclusions.****1 scoring point:*** *The answer is not perfect; The terminology is not used, or is not relevant; The answer is fundamentally wrong. Only separate fragments of the relevant material are presented. The student is unable to analyze practical material.* ***0 scoring point:*** *The answer to the question is not relevant or not given at all.* |
| ***Mandatory literature*** | 1. *Stanley J. Nelson/Wheeler’s dental Anatomy Physiology, and occlusion, 2010*
2. *Arthur R. Hand, Marion E. Frank/ Fundamentals of Oral Histology and Physiology, 2014*
3. *Mahindra Kr. Anand/Anand’s Human Anatomy for Dental Students, 2012*
4. *NishaGarg, AmitGarg /Textbook of Preclinical Conservative Dentistry, 2011*
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| ***Additional******literature***  | 1. *Satish Chandra/Textbook of Operative Dentistry, 2007*
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| ***Study results. Field competences*** | ***Knowledge***1. *Student describes anatomy and structure of oral cavity and salivary glands,*
2. *Student determines principles of preparation of cavity of I, II, III, IV, V, VI classes by Black,*
3. *Student explains basic approaches of preparation techniques with non invasive methods.*

***Skills***1. *Student evaluates location of pathological process according to Black’s classification*
2. *Student plans the practical work of preparation with non invasive methods,*
3. *Student prepares cavities on phantoms*
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| ***Teaching methods and forms*** | *LecturePractical trainingDiscussion / debatesDemonstration of practical skills**Independent work of a student and making a presentation* |

***Appendix 1***

***Content of educational course***

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| *Week* | *Teaching method* | *Number of hours* | *Topic of practical or laboratory training of Lecture/work in the working group* | *Literature* |
| *I*  | *Lecture* | *2* | *Anatomy of Oral Cavity, description of anatomical feature of oral cavity.* | *Mahindra Kr. Anand/Anand’s Human Anatomy for Dental Students,2012**371-388* |
| *Practical training**\ Seminar* | *1* | *Syllabus presentation* |  |
| *II*  | *Lecture* | *1* | *Saliva, Salivary Gland, Salivary Secretion composition and functions of Saliva* | *Arthur R. Hand, Marlon E. Frank/ Fundamentals of oral Histology and Physiology 223-240* |
| *Practical training**\ Seminar* | *2* | *Content:** *Oral cavity proper,*
* *Vestibule,*
* *Lips and Cheeks,*
* *Gingiva,*
* *Teeth and Type of teeth,*
* *Tongue and Floor of oral cavity,*
* *Palate,*
* *Mandible andMaxillary jaw.*
 |  |
| *III*  | *Lecture* | *1* | *Micro flora of oral cavity*  |  |
| *Practical training**\ Seminar* | *2* | * *Major salivary glands parotid,sublingual and submandibular glands,*
* *minor salivary glands,*
* *Saliva composition and function*
 |  |
| *IV*  | *Lecture* | *1* | *Oral mucosa:cells, structure and function of oral mucosa*  | *Arthur R. Hand, Marion E. Frank/ Fundamentals of Oral Histology and Physiology,2014 Pp 165-182* |
| *Practical training**\ Seminar* | *2**1* | *Micro flora of oral cavity* * *Transient Flora*
* *Resident Flora*
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| *V*  | *Lecture* | *1* | *The Primary (Deciduous) Teeth, anatomical features of Each Primary Tooth, Major Contrasts between Primary and Permanent Teeth* | *Stanley J. Nelson/Wheeler’s dental Anatomy Physiology, and occlusion,2010 Pp 45-50*  |
| *Practical training**\ Seminar* | *1**1* | * *The general structure of oral mucosa*
* *Stratified squamous epithelium – general principles and differentiation*
* *The epithelial-stromal interface*
* *Oral mucosa cells*
* *Types of oral mucosa*
* *Oral sensation*
* *Supply and innervation of oral mucosa*

*Quiz* |  |
| *VI*  | *Lecture* | *1* | *The Permanent Teeth, anatomy of permanent teeth,description of labial, lingual, proximal aspects of teeth*  | *Stanley J. Nelson/Wheeler’s dental Anatomy Physiology, and occlusion,2010 Pp 100-140* |
| *Practical training**\ Seminar* | *2* | * *Detailed Description of Each Primary Tooth*
* *Pulp Chambers and Pulp Canals*
* *Major Contrasts between Primary and Permanent Teeth*
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| *VII*  | *Lecture* | *1* | *Tooth Nomenclature, Types of Human Teeth, Types of Dentition, Dental Arches and Quadrants* | *AmitGarg, NishaGarg/ Textbook of OPERATIVE DENTISTRY,2015 Pp 7-17* |
|  | *Practical training**\ Seminar* | *2**1* | * *description of labial, lingual, proximal aspects of teeth of permanent teeth*
 |  |
| *VIII*  |  | *2* | *Intermediate exam*  |  |
| *IX*  | *Lecture* | *1* |  *Black’s classification. Principles of Tooth Preparation. Non invasive preparation methods* | *AmitGarg, NishaGarg/ Textbook of OPERATIVE DENTISTRY,2015pp 115-133**NishaGarg, AmitGarg /Textbook of Preclinical Conservative Dentistry,2011 Pp119-144* |
| *Practical training**\ Seminar* | *2**1* | * *Dental Arches and Quadrants ;*
* *Types of Human Teeth ;*
* *Types of Dentition ;*
* *Tooth Notation Systems ;*
* *Nomenclature of Tooth Surfaces*
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| *X*  | *Lecture* | *1* | *Preparation techniques of Black’s Classes III, IV, V according BEVELED CONVENTIONAL, MODIFIED (CONSERVATIVE)* | *Satish Chandra/Textbook of Operative Dentistry,2007 Pp248-255* |
| *Practical training**\ Seminar* | *2* | * *Description ofBlack’s classification*
* *Description of MODIFIED (CONSERVATIVE), BEVELED CONVENTIONAL, Conventional tecniques*
* *Non invasive preparation methods*
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| *XI*  | *Lecture* | *1* | *Preparation techniques of Black’s Classes I, I I, V I according BEVELED CONVENTIONAL, MODIFIED (CONSERVATIVE)* | *Satish Chandra/Textbook of Operative Dentistry,2007 Pp259-264* |
| *Practical training**\ Seminar* | *2* | *Preparation techniques of Black’s Classes III, IV, V* |  |
| *XII*  | *Lecture* | *1* | *Preparation principles according non-invasive methods* | *NishaGarg, AmitGarg /Textbook of Preclinical Conservative Dentistry,2011 Pp214-235* |
|  | *Practical training**\ Seminar* | *2* | *Preparation techniques of Black’s Classes I, I I, V I* |  |
| *XIII*  | *Lecture* | *1* | *Summery* |  |
|  | *Practical training**\ Seminar* | *2* | *Presentation* |  |
| *XIV-XV* |  | *2* | *final exam* |  |
| *XV-**XVI* |  |  | *Additional exam* |  |