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**TBILISI HUMANITARIAN TEACHING UNIVERSITY**

***SILLABUS***

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| ***Name of educational course*** | ***Basics of Periodontology*** |
| ***Code of educational course*** | *STOM0405DM* |
| ***Status of educational course*** | ***C****ompulsory course*  *for the one-cycle higher educational Programme-Dentistry* |
| ***ECTS*** | ***3 credits. Total: 75 hours***  *Contact Hours–46 hours (Class Meeting Time Period: 15L/27 Pr) + 4 hours (Midterm:2h and Final Examinations 2h):*  *Individual Work-29 hours* |
| ***Lecturer*** | *Landa Lursmanashvili, MD, Ph.D, THTU invited lecturer*  *Tel. 514000016*  *consultation days: according to consultation schedule* |
| ***Goal of educational course*** | *The goal of the course is to teach the studentshistory of periodontology, classification of periodontal diseases, anatomy, structure and function of periodontal tissue, epidemiology, etiology and pathogenesis of periodontal diseases. Mechanical and ultrasonic instruments and their usage in periodontal practice.*  *The course aimed* ***to reinforced/practiced****the student on Apply knowledge of therapies to health, illness, and disease; Demonstrate a strong commitment to continuing education in order to maintain and further develop skills and knowledge; and* ***to mastering*** *the student on* *Use effective communication skills and styles.* |
| ***Precondition for admission*** |  |
| ***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* ***11 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 assessmentreceivedat the additional exam is the student's final assessment, which does not reflect the negative points received at the basicfinal exam. If the student receives atthe 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.***  *Evaluated by the current verbal exam - 24 scoring points, 8 times during the supervision, each is evaluated with a maximum of 3 scoring points.*  *Assessment criteria:*  *3 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*  *2 scoring points: The material is not very well mastered by the student. Reveals only schematic knowledge, conveys material inconsistently, with less persuasiveness, less mastery of specific terminology.*  *1 scoring points - has difficulty in analyzing and integrating the past material.*  *0 scoring point: The student has not used the material, is passive, the material is not reviewed.*  ***Presentation- 6 scoring points.***  *The presentation is assessed according to the following criteria:*  *5 - scoring points: The presentation is prepared in Power Point (indicating the literature sources used), Internet resource (web pages are indicated in the presentation), the speaker is well prepared, thoroughly masters the material provided. Demonstrates the ability to present and discuss with the audience as much as possible; The answers to the questions asked are complete, correct and substantiated. Student and well aware of the problematic issue.*  *4-3 scoring points: No demonstration material used; The student is averagely prepared, knows only a part of the topic, has difficulty in presenting the prepared material to the audience, the answers to the questions are unreasonable.*  *2 -1 scoring point: The student is not able to lead the discussion, the answers to the questions are incomplete.*  *0 scoring point: The student is not prepared. He/she is not able to answer the questions.*  ***Preliminary examination. 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 analyze 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 analyze 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 analyze 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.*  ***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 analyze 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 analyze 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 analyze 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*** | *Newman and Carranza’s/Clinical Periodontology, 2019* |
| ***Additional***  ***literature*** | *https://www.efp.org/publications/projects/new-classification/reports/index.html* |
| ***Study results. Field competences*** | ***Knowledge***   1. *Student determines**epidemiology, etiology and pathogenesis of periodontal diseases.* 2. *Student defines types of mechanical and ultrasonic instruments and principle of usage them in practical condition.*   ***Skills***   1. *Student provide sconclusions by using of classification of periodontal diseases,* 2. *Student identifies local and general risk factors of periodontal diseases,* 3. *Student selects proper mechanic and ultrasonic instrumentsfor the use.* |
| ***Teaching methods and forms*** | *Lecture Practical training Discussion / debates Demonstration of practical skills*  *Independent work and pressentation* |

***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* | ***The Historical Background of Periodontology, classification of periodonatal diseases***  *Newman and Carranza’s/ClinicalPeriodontology,2019pp 85-109* |  |
| ***Practical training\seminar*** | *1* | *Syllaubus* |  |
| ***II*** | ***Lecture*** | *1* | ***Anatomy, Structure, and Function of the Periodontium***  *Newman and Carranza’s/ClinicalPeriodontology,2019pp 181-244* |  |
| ***Practical training\seminar*** | *2* | * ***The Historical Background of Periodontology,*** * ***classification of periodonatal diseases 1999,*** * ***classification of periodonatl diseases 2017,*** |  |
| ***III*** | ***Lecture*** | *1* | ***Anatomy, Structure, and Function of the Periodontium***  *Newman and Carranza’s/ClinicalPeriodontology,2019pp 245-273* |  |
| ***Practical training\seminar*** | *2* | *clinical, microscopic, histhological, functional aspects of*   * *Oral mucosa* * *Gingival* * *Periodontal ligament* |  |
| ***IV*** | ***Lecture*** | *1* | ***Anatomy, Structure, and Function of the Periodontium***  *Newman and Carranza’s/ClinicalPeriodontology,2019pp 273-282* |  |
| ***Practical training\seminar*** | *2*  *1* | *clinical, microscopic, histhological, functional aspects of*   * ***Cement*** * ***Alveolar process*** |  |
| ***V*** | ***Lecture*** | *1* | *Aging and the periodontium*  *Newman and Carranza’s/ClinicalPeriodontology,2019pp 306-319* |  |
| ***Practical training\seminar*** | *2* | * ***Development of attachment apparatus*** * ***External forces and the periodontium*** * ***Vascularization of supporting structure*** |  |
| ***VI*** | ***Lecture*** | *1* | *Epidemiology of periodontium*  *Newman and Carranza’s/ClinicalPeriodontology,2019pp 400-426* |  |
| ***Practical training\seminar*** | *2* | * *Effects on aging of the periodontium* * *Effects on aging on the progression of periodontal diseases* * *Aging and the response to treatment of the periodontium* |  |
| ***VII*** | ***Lecture*** | *1* | *Etiology and pathogenesis of periodontal disease*  *Newman and Carranza’s/ClinicalPeriodontology,2019pp 528-648* |  |
|  | ***Practical training\seminar*** | *2* | * ***The need of epidemiology*** * ***Epidemiological studing designs*** |  |
| ***VIII*** |  | *2* | *Intermediate exam* |  |
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| ***IX*** | ***Lecture*** | *1* | *Etiology and pathogenesis of periodontal disease*  *Newman and Carranza’s/ClinicalPeriodontology,2019pp434-507* |  |
| ***Practical training\seminar*** | *2* | *The Oral Cavity From a Microbe's Perspective Bacteria and Their Biofilm Mode of Living Characteristics of Biofilm Bacteria (Life in “Slime City”) Bacterial Transmission and Translocation Nonbacterial Inhabitants of the Oral Cavity Microbiologic Specificity of Periodontal Diseases The Transition From Health to Disease Virulence Factors of Periodontopathogens Future Advances in Periodontal Microbiology* |  |
| ***X*** | ***Lecture*** | *1* | *Risk factors effecting periodontium*  *Newman and Carranza’s/ClinicalPeriodontology,2019pp 1145-1244* |  |
| ***Practical training\seminar*** | *2* | *Histopathology of Periodontal Disease Inflammatory Responses in the Periodontium Linking Pathogenesis to Clinical Signs of Disease Resolution of Inflammation Immune Responses in Periodontal Pathogenesis Concept of Host Susceptibility* |  |
| ***XI*** | ***Lecture*** | *1* | *Plaque ,Biofilm control for the periodontal control patient*  *Newman and Carranza’s/ClinicalPeriodontology,2019pp 2682-2726* |  |
| ***Practical training\seminar*** | *2* | * *Smoking and periodontitis* * *Calculus and other local predisposing factors* |  |
| ***XII*** | ***Lecture*** | *1* | ***Mechanical instruments***  *Newman and Carranza’s/ClinicalPeriodontology,2019pp 2794-2912* |  |
|  | ***Practical training\seminar*** | *2*  *1* | *The Toothbrush Powered Toothbrushes Dentifrices Toothbrushing Methods Interdental Cleaning Aids Gingival Massage Oral Irrigation Caries Control Chemical Plaque Biofilm Control With Oral Rinses Disclosing Agents Frequency of Plaque Biofilm Removal Patient Motivation and Education* |  |
| ***XIII*** | ***Lecture*** | *1* | *Sonic and ultrasonic instruments*  *Newman and Carranza’s/ClinicalPeriodontology,2019pp2965-2992* |  |
|  | ***Practical training\seminar*** | *2* | * *Classification of periodontal instruments* * *General principles of instrumentation* * *Principles of scaling and root planning* |  |
| ***XIV*** | ***Lecture*** | *1* | *Summery* |  |
|  | ***Practical training\seminar*** | *2* | *Presentation* |  |
| ***XV-XVI*** |  | *2* | ***Final Exam*** |  |
|  |  |  | ***Additional exam*** |  |