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**TBILISI HUMANITARIAN TEACHING UNIVERSITY**

***SILLABUS***

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| ***Name of educational course*** | Surgical Periodontology |
| ***Code of educational course*** | STOM0417DM |
| ***Status of educational course*** | *Compulsory course*  *for the one-cycle higher educational Programme-Dentistry* |
| ***ECTS*** | **4 credits. Total: 100 hours**  Contact Hours–52 hours (Class Meeting Time Period: 13L/35 Pr) + 4 hours (Midterm:2h and Final Examinations 2h):  Individual Work-48 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 teaching the students the issues of Surgical Periodontology by mastering them on apply knowledge of the pathological and clinical features of disease; formulate diagnosis of systemic medical conditions that present with oral symptoms and initiate appropriate management; Apply a population perspective to health and health care in the community; Demonstrate and apply critical thinking to practice problems; Interpret pathological and clinical features of disease and apply to dental practice. |
| ***Precondition for admission*** | Clinical Periodontology |
| ***System of students’ assessment*** | **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.  **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.** |
| ***Content of educationla course*** | *See Appendix 1* |
| ***Assessment forms/methods/***  ***criteria/activities*** | ***Activity - 30 points*** *It is to be assessed by the current* ***oral interview*** *5 times during curation, the maximum score is 3 points, (****15 points in total****). Assessment criteria:*  *3 points: The Student demonstrates comprehensive, convincing and detailed knowledge of the material, freely uses the specific terminology, actively fulfills the assigned tasks; uses the information from the learned material, and is interactive.*  *2 points: The Student demonstrates significant knowledge of the material, knows the specific terminology, fulfills the assigned tasks; uses the information from the learned material, and is interactive.*  *1 point: The Student’s knowledge of the material is not sufficient, demonstrates only schematic knowledge, does not know the specific terminology sufficiently, has difficulties in fulfillment of tasks.*  *0 points: The student is passive, has not reviewed the material.*  ***Presentation - Assessed by 5 points, assessment criteria:******A) Contents of the presentation, use of sources - 2 points*** *The presentation provides full data, a large number of different sources are used, the topic is fully covered -****2 points;*** *The data is limited, the conclusions are not made, the less sources are used -****1 point;***  *There is no sources used at all, the contents are not correctly provided -****0 point.******B) Presentation design (layout) -1 point*** *All the points of layout are observed, the presentation background is well perceivable, the slides are relevant to the presentation topic, various means of imaging are used in slide design: animations, pictures, and other objects -****1 point;***  *No title layout is provided, none of the points is correctly specified, no slides and other means of designing are used -****0 point.******C) Presentation technology / contact with the audience - 2 points*** *The contact with the audience is established and is effective, speech is correct, good and interesting, the audience reaction is adequate -****2 points;*** *The contact with the audience is weak, sometimes uninteresting, no problems are arisen, the audience is experiencing difficulty in the process of perception of the presenter and presentation -****1 point;*** *The contact between the presenter and the audience is lost, the audience cannot perceive the presentation -****0 point.******The clinical case review is conducted twice in the semester - Maximum assessment - 4 points (Total 8 points)*** *Case review 4 points - The student analyzes the principles of treatment, expected outcomes and contraindications. 2-3 points – The student is aware of the principles of treatment, expected outcomes and contraindications. 1 -2 points - The student makes fundamental mistakes in the analysis of treatment principles, expected outcomes and contraindications. 0 points - student does not participate.* ***Discussion - is conducted once in a semester - maximum score - 2 points.***  *Assessment criteria:* ***2 points:*** *The student is well prepared, able to develop his/her own opinion about the discussion topic, organize and lead debates, identify contradictions and logical mistakes in the discussions of participants, evaluate the efficiency of the discussion.* ***1 point:*** *Student is prepared weakly, has difficulties to form his/her own opinion about the discussion topic, to identify contradictions and logical mistakes in the discussions of participants, evaluate the efficiency of the discussion.*  ***0 point:*** *The student is unprepared and does not participate in the discussion.*  ***Intermediate credit- in combined form, maximum 30 points*** *A) Writing (Test) -* ***10*** *points. The open test consists of 10 questions reflecting the previous material and each correct answer in the test is assessed by 1 point, the incorrect answer - 0 point. B) Demonstration of practical skills - 5 points On moulages:*  *Techniques of the upper and lower teeth extraction - 2 points, Techniques of the dental root extraction - 2 points, Demonstration of specificities of surgical treatment of odontogenic diseases of the maxillodental system (periodontitis, periostitis, osteomyelitis) - 1 point.*  *C) Oral - 15 points, in each ticket containing closed questions will be given 3 closed questions / topics, each closed question / topic is to be assessed by 0-5 points.* ***5-point oral credit, assessment criteria:******5 points:*** *the answer is complete; the question is answered accurately and comprehensively; terminology is followed. The student is perfectly aware of the material provided by the program, is well acquainted with both basic and supporting literature, demonstrates good skills for analysis and generalization.* ***4 points:*** *the answer is complete but briefed; terminology is correct; the question is answeredcomprehensively; there are no substantial errors; the student is well aware of the material provided by the program; is well acquainted with basic literature, demonstrates skills for analysis and generalization.* ***3 points:*** *the answer is incomplete; the question is answered satisfactorily; terminology is incomplete; the student is aware of the material provided by the program, but there are some mistakes, the analysis of the issue presented by him is weak.* ***2 points:*** *the answer is incomplete; terminology is incorrect and inaccurate; the subject matter of the issue is provided partly; the student lacks mastering of the basic literature sufficiently; there are some essential mistakes. Due to insufficient theoretical preparation, the student has difficulties in the practical analysis of the material and drawing the correct conclusions.* ***1 point:*** *the answer is not perfect; terminology is not used or is not relevant; the answer is substantially wrong. Only separate fragments of the material relevant to the issue are provided. The student cannot analyze the practical material.* ***0 point:*** *The answer is not relevant to the question or not given at all.*  ***Final exam:*** *40 points A) Is conducted in written form (tested) – 20 questions are given to the student, reflecting the learnt material, one question is assessed by one point, maxumum 20 points. B) Demonstration of practical skills - 5 points On moulages:*  *1. Techniques of the upper and lower teeth extraction - 2 points, 2. Techniques of the dental root extraction - 2 points, 3. Demonstration of specificities of surgical treatment of odontogenic diseases of the maxillodental system (periodontitis, periostitis, osteomyelitis) - 1 point.*  *C) Oral - 15 points, in each ticket containing closed questions will be given 3 closed questions / topics, each closed question / topic is to be assessed by 0-5 points.* ***5-point oral exam assessment criteria:******5 points:*** *the answer is complete; the question is answered accurately and comprehensively; terminology is followed. The student is perfectly aware of the material provided by the program, is well acquainted with both basic and supporting literature, demonstrates good skills for analysis and generalization.* ***4 points:*** *the answer is complete but briefed; terminology is correct; the question is answeredcomprehensively; there are no substantial errors; the student is well aware of the material provided by the program; is acquainted with basic literature, demonstrates skills for analysis and generalization.* ***3 points:*** *the answer is incomplete; the question is answered satisfactorily; terminology is incomplete; the student is aware of the material provided by the program, but there are some mistakes, the analysis of the issue presented by him is weak.* ***2 points:*** *the answer is incomplete; terminology is incorrect and inaccurate; the subject matter of the issue is provided partly; the student lacks mastering of the basic literature sufficiently; there are some essential mistakes. Due to insufficient theoretical preparation, the student has difficulties in the practical analysis of the material and drawing the correct conclusions.* ***1 point:*** *the answer is not perfect; terminology is not used or is not relevant; the answer is substantially wrong. Only separate fragments of the material relevant to the issue are provided. The student cannot analyze the practical material.* ***0 points:*** *The answer is not relevant to the question or not given at all.* |
| ***Mandatory literature*** | *Newman and Carranza’s/*ClinicalPeriodontology,2019 |
| ***Additional***  ***literature*** |  |
| ***Study results. Field competences*** | **Knowledge**   1. Student describes the methods of Periodontal Therapy 2. Student identifies General Principles of Periodontal Surgery 3. Student describes the Periodontal Surgical Therapy   **Skills**   1. Student evaluates issues of treatment of gingival enlargement 2. Student identifies and interprest the implications of systemic medical conditions to the management of the periodontal surgical therapy 3. Student applies and evaluates health maintenance, promotion and disease prevention approaches to the periodontal surgical therapy.   **Responsibilities**   1. Student objectively and critically evaluates personal knowledge 2. Student identifies appropriate learning resources for future learning. |
| ***Teaching methods and forms*** | Lecture; *Practical training;* Discussion / debates; Teachback; Critical Reflection; Situated Learning*-Review of clinical cases* |

***Appendix 1***

***Content of educational course***

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| ***Days*** | ***Teaching method*** | ***Number of hours*** | ***Topic of practical or laboratory training of Lecture/work in the working group and Literature*** |
| ***I*** | ***Lecture*** | *2* | Phase II Periodontal Therapy  *Newman and Carranza’s/*ClinicalPeriodontology,2019*pp3275-3291* |
| ***Practical training\seminar*** | *2* | *Syllabus Presentation* |
| ***II*** | ***Lecture*** | *1* | Periodontal and Peri-Implant Surgical Anatomy  *Newman and Carranza’s/*ClinicalPeriodontology,2019pp3294-3317 |
| ***Practical training\seminar*** | *3* | * Objectives of the Surgical Phase * Pocket Elimination Versus Pocket Maintenance * Reevealuation After Phase I Therapy * Critical Zones in Pocket Surgery * Indications for Periodontal Surgery * Methods of Pocket Therapy |
| ***III*** | ***Lecture*** | *1* | General Principles of Periodontal Surgery *Newman and Carranza’s/*ClinicalPeriodontology,2019*pp3325-3361* |
| ***Practical training\seminar*** | *3* | * Mandible * Maxilla * Exostoses * Muscles * Anatomic Spaces |
| ***IV*** | ***Lecture*** | *1* | Periodontal Surgical Therapy  *Newman and Carranza’s/*ClinicalPeriodontology,2019*pp 3362-3424* |
| ***Practical training\seminar*** | *3*  *1* | * Outpatient Surgery * Hospital Periodontal Surgery * Surgical Instruments |
| ***V*** | ***Lecture*** | *1* | Treatment of Gingival Enlargement  *Newman and Carranza’s/*ClinicalPeriodontology,2019*pp 3430-3450* |
| ***Practical training\seminar*** | *3* | * Rationale for Periodontal Access Surgery * Fundamentals of Periodontal Surgery * Periodontal Surgical Techniques |
| ***VI*** | ***Lecture*** | *1* | Resective Osseous surgery  *Newman and Carranza’s/*ClinicalPeriodontology,2019*PP 3457-3489* |
| ***Practical training\seminar*** | *3* | * Chronic Inflammatory Enlargement * Periodontal and Gingival Abscesses * Drug-Induced Gingival Enlargement * Leukemic Gingival Enlargement * Gingival Enlargement During Pregnancy * Gingival Enlargement During Puberty |
| ***VII*** | ***Lecture*** | *1* | Periodontal Regeneration and Reconstructive Surgery  *Newman and Carranza’s/*ClinicalPeriodontology,2019*pp-3492-3553* |
|  | ***Practical training\seminar*** | *3* | * Selection of Treatment Technique * Rationale * Normal Alveolar Bone Morphology * Terminology * Factors in Selection of Resective Osseous Surgery * Examination and Treatment Planning * Methods of Resective Osseous Surgery * Osseous Resection Technique (e-only) * Flap Placement and Closure (e-only) * Postoperative Maintenance (e-only) * Specific Osseous Reshaping Situations (e-only) |
| ***VIII*** |  | *2* |  |
| ***IX*** | ***Lecture*** | *1* | *Furcation*  *Involvement and treatment*  *Newman and Carranza’s/*ClinicalPeriodontology,2019*pp3589-3616* |
| ***Practical training\seminar*** | *3* | * Assessment of Periodontal Wound Healing * Reconstructive Surgical Techniques * Factors That Influence Therapeutic Success   + Future Directions for Periodontal Regeneration |
| ***X*** | ***Lecture*** | *1* | Periodontal Plastic and Aesthetic Surgery *Newman and Carranza’s/*ClinicalPeriodontology,2019*PP3621-3697* |
| ***Practical training\seminar*** | *3* | * Etiologic Factors * Diagnosis and Classification of Furcation Defects * Local Anatomic Factors * Anatomy of the Bony Lesions * Indices of Furcation Involvement * Treatment * Nonsurgical Therapy * Surgical Therapy * Prognosis |
| ***XI*** | ***Lecture*** | *1* | Leukocyte- and Platelet-Rich Fibrin  *Newman and Carranza’s/*ClinicalPeriodontology,2019*pp 3709-3753* |
| ***Practical training\seminar*** | *3* | Terminology  Objectives  Cause of Marginal Tissue Recession  Factors That Affect Surgical Outcome  Techniques to Increase Attached Gingiva (e-only)  Techniques to Deepen the Vestibule (e-only)  Techniques to Remove the Frenum (e-only)  Techniques to Improve Aesthetics (e-only)  Tissue Engineering (e-only)   * Criteria for Selection of Techniques |
| ***XII*** | ***Lecture*** | *1* | Periodontal Microsurgery  *Newman and Carranza’s/*ClinicalPeriodontology,2019*PP 3770-3789* |
|  | ***Practical training\seminar*** | *3* | * Introduction * General Characteristics of L-PRF Membranes * Extraoral Applications of L-PRF (e-only) * L-PRF in the Treatment of Periodontal Bony Defects * L-PRF for Ridge Preservation * L-PRF and Sinus Floor Elevation (e-only) * L-PRF and Implant Surgery (e-only) * L-PRF for Periodontal Mucogingival Surgery * L-PRF and Medication-Related Osteonecrosis of the * Jawbone (e-only) |
| ***XIII*** | ***Lecture*** | *1* | Lasers in Periodontal and Peri-implant Therapy *Newman and Carranza’s/*ClinicalPeriodontology,2019*pp 3804-3833* |
|  | ***Practical training\seminar*** | *3* | * Philosophy of Periodontal Microsurgery * Advantages of Microsurgery * Magnification Systems * Microsurgical Sutures * Aesthetic Periodontal Microsurgery (e-only) * Microsurgical Knots (e-only)  Presentation |
| ***XIV-XV*** |  | *2* | ***Final Exam*** |
|  |  |  | ***Additional exam*** |