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**TBILISI HUMANITARIAN TEACHING UNIVERSITY**

***SILLABUS***

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| ***Name of educational course*** | Propaedeutic of Prosthetic Dentistry |
| ***Code of educational course*** | STOM0418DM |
| ***Status of educational course*** | Compulsory course  for the one-cycle higher educational Programme-Dentistry |
| ***ECTS*** | **4 credits. Total: 100 hours**  Contact Hours–43 hours (Class Meeting Time Period: 14L/25 Pr) + 4 hours (Midterm:2h and Final Examinations 2h):  Individual Work-57 hours |
| ***Lecturer*** | Sofia Kraveishvili, MD, Ph.D, THTU invited lecturer  Tel. 577743239  Consultation days: according to consultation schedule |
| ***Goal of educational course*** | The goal of the course is to teach the students to carry out clinical and paraclinical examination, identify various pathologies of jaws and teeth and apply the newest methods of examination to make full-fledged diagnosis.  The course aimed **to introduce** the student on Apply appropriate diagnostic processesand **to reinforced/practiced** the student onPerform and practice practical procedures effectively and safely; Apply the scientific/evidenced based approach to medicine and practice; Formulate diagnosis of systemic medical conditions that present with oral symptoms and initiate appropriate management. |
| ***Precondition for admission*** | Propaedeutic of therapeutic dentistry |
| ***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 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 – 23 points;***  ***Midterm quiz- 30 points;***  ***Verbal presentation - 4 points;***  ***Final exam - 40 points;***  ***Discussion - 1 point;***  ***Tested survey - 2 points;***  ***Activity - maximum - 23 points.***  ***a) Assessment of verbal knowledge - 11*** *points. The student is assessed 11 times during the term. The maximum assessment – 1 point.*  ***1 point:*** *The student reveals the perfect, convincing and detailed knowledge of the material, uses specific terminology freely, talks over logically. Actively uses information from reviewed material, is interactive.*  ***0,5 points:*** *The material is not very well mastered by the student. Reveals only schematic knowledge, coveys material illogically, with less persuasiveness, little mastery of specific terminology, difficulty in analyzing and integration with reviewed material*  ***0 points:*** *The student is passive, the material is not reviewed.*  ***b) Practical skills - 12 points.*** *The student’s practical skills are assessed 12 times during the semester, maximum grade of each - 1 point.*  ***1 point:*** *the student links the theoretical knowledge with the practical work well, performs the intended work accurately and perfectly. Knows the necessary materials and tools well, knows the rules and sequence of their use. Adheres to ethical norms in the process of work. (The desk is clean and tidy). Performs the work in the specified time.*  ***0,5 points:*** *The student is not able to perfectly link the theoretical knowledge with the practical work, he/she is not able to perform the practical work perfectly. Fails to follow the norms of ethics in the work process. Cannot use it properly during working hours.*  ***0 point:*** *The student is passive, is not able to link theoretical knowledge with practice. He (she) is not able to master practical skills.*  ***Midterm exam – maximum 30 points***  ***a) Test -*** *open test consists of 15 questions concerning the material passed. Each correct answer is assessed by 1 point, incorrect - by 0 point. Maximum - 15 points.*  ***Criteria for evaluating a 5-point verbal quiz:***  ***5 points -*** *the answer is complete. The answer is conveyed accurately and exhaustively. The student has a thorough knowledge of the past material provided by the program, has a good mastery of both basic and supplementary literature, the terminology is kept, demonstrates a good ability to analyze and generalize.*  ***4 points*** *- the answer is complete but shortened; Terminologically correct; 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 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 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; Due to insufficient theoretical training, the student finds it difficult to analyze the material in practice and draw valid conclusions.*  ***1 point*** *- the answer is not perfect; The terminology is not used; The answer is fundamentally wrong. Only separate fragments of the relevant material are presented. The student is unable to analyze practical material*  ***0 point*** *- the answer to the question is not relevant or not given at all.*  ***Appraisal of the presentation. Maximum rating - 4 points***  *The presentation is evaluated according to the following criteria:*  ***4 points*** *- the student 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. The student is well versed in problematic issues. Has a well-presented demonstrative materials relevant to the topic.*  ***3 points -*** *the student is properly prepared, masters the subject matter. Gives the right reasoned answers to the questions asked. He (she) has presented relevant demonstrative materials of the topic.*  ***2 points -*** *the student is insufficiently prepared. Knows only a part of the topic provided. He (she) has difficulty in presenting the material to the audience. The answers to the questions are unreasonable. No demonstration material have been submitted. Has difficulty in linking with the audience. Weakly demonstrates the ability to lead the discussion with the audience.*  ***1 point -*** *The student is poorly prepared. The answers to the questions asked are incomplete. Has not presented relevant demonstration material of the topic, has no ability to lead the discussion. Unable to connect with audience.*  ***0 point*** *- The student is not prepared.*  ***Tested survey - 2 points***  *2 points - the student is given 10 tests from the material passed, each correct answer is evaluated with 0.2 points, incorrect - with 0 points.*  ***Discussion - 1 point***  ***Assessment criteria***  ***1 point -*** *the student has mastered the material well. Gives correct, convincing answers to questions. Thinks well. Demonstrates good skills of discussion with group.*  ***0,5 points -*** *the student does not know the material well. Answers the questions with difficulty. Cannot have a good discussion with the group.*  ***0 point -*** *the student is unable to master the theoretical material and is therefore unable to participate in the discussion. He/she is passive.*  ***Final exam maximum 40 point***  ***a) Test*** *- the open test consists of 20 questions relating to the material passed, each correct answer is evaluated by 1 point. Incorrect answer - 0 point.*  ***b) Practical skills*** *- maximum 5 points.*  ***Criteria for assessing the demonstration of practical skills:***  ***5 points -*** *the student demonstrates good practical skills. Links theoretical knowledge with practical work well. Accurately and diligently performs the intended work. Has a good command of the necessary materials, tools and knows the rules of their use. Has a good ability of imagination. Performs the work in the specified time. Adheres to ethical norms in the process of work.*  ***4 points*** *- the student completes the practical assignment well. Demonstrates theoretical knowledge. Properly uses the necessary materials and tools. Has the ability of imagination, which is revealed in the work process. Performs the work in the specified time. Adheres to ethical norms in the process of work.*  ***3 points -*** *the student doesn’t demonstrates theoretical knowledge well, which is reflected in his / her practical work. Performs work at specified times but incompletely. Recognizes the necessary materials and rules for their use. Adheres to ethical norms and time in the work process.*  ***2 points -*** *the student finds it difficult to demonstrate practical skills. It is difficult to connect theoretical knowledge with practice. Fails to adhere to work ethic norms and timing. The work done is incomplete.*  ***1 point*** *- the student does not have adequate theoretical knowledge, which is reflected in the demonstration of his / her practical skills. Fails to adhere to ethical norms and time in the work process. The work done does not correspond to the real thing.*  ***0 point -*** *the student is passive. He/she could not master practical skills.*  ***c) Ticket with closed questions.*** *Each ticket will include three questions. Each case is assessed with 0-5 point.*  ***Criteria for evaluating a 5- point verbal exam:***  ***5 points -*** *the answer is complete; the issue is conveyed accurately and exhaustively; The terminology is maintained. 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 points:*** *the answer is complete but shortened; Terminologically correct; 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 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 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; Due to insufficient theoretical training, the student finds it difficult to analyze the material in practice and draw valid conclusions.*  ***1 point -****the answer is not perfect; The terminology is not used; The answer is fundamentally wrong. Only separate fragments of the relevant material are presented. The student is unable to analyze practical material.*  ***0 point*** *- the answer to the question is not relevant or not given at all.* |
| ***Mandatory literature*** | 1. John W. Campbell, PhD, Nancy Cuttic, BSDH, Barbara J. Melanson, RDH Anatomy of Orofacial Structures a comprehensive approach 7th Edition 2014 2. Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (fifth Edition), 2016 3. Diagnosis and treatment Planing in Dentistry 3th edition 2017 |
| ***Additional***  ***literature*** | 1. Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (Fourth Edition)2006 |
| ***Study results. Field competences*** | **Knowledge**   1. Student describes the structure and biomechanics of temporomandibular joint, location of facial and mastication muscles and their role in performing the act of chewing, swallowing and speaking. 2. Student discusses about the importance of carrying out a full-fledged subjective and objective examination of a patient.   **Skills**   1. Student makes clinical and paraclinical examination of a patient based on interview and complaints a patient’s, 2. Student identifies necessity of therapeutic, surgical, orthodontic and dental manipulations 3. Student evaluates oral cavity condition based on physical examination 4. Student examines and makes clinical assessment of remaining teeth, jaw ridge bone, transitional wrinkles, palatine arch and rim, mylohyoid line, studies and makes clinical assessment of exostosis. 5. Student can adoption of various up-to-date research and practical skills will ensure development of a physician. |
| ***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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| ***Week*** | ***Teaching method*** | ***Number of hours*** | ***Topic of practical or laboratory training of Lecture/work in the working group and Literature*** |
| ***I*** | ***Lecture*** | *2* | Principle parts of masticatory and articulatory apparatus.  Maxillofacial area, upper and lower jaws, dental system.  Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (fifth Edition)2016;**pp. 14** |
| ***practical training\ seminar*** | *1* | *syllabus presentation* |
| ***II*** | ***Lecture*** | *1* | Temporomandibular joint (TMJ)  Muscles of mastication  Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (fifth Edition)2016,**pp. 8-11** |
| ***practical training\ seminar*** | *2* | * Masticatory and articulatory apparatus. * Maxillofacial area, upper and lower jaws, dental system. |
| ***III*** | ***Lecture*** | *1* | Maxillofacial muscles of expression, masticatory load, muscle force  Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (fifth Edition)2016**,pp 11-17** |
| ***practical training\ seminar*** | *2* | Principle parts of masticatory and articulatory apparatus   * Location, structure and functions of upper jaw in mandibulofacial area; * Location, structure and functions of lower jaw in mandibulofacial area. |
| ***IV*** | ***Lecture*** | *1* | Structure of teeth, teeth alignment, dental arch, factors ensuring tooth strength  John W. Campbell, PhD, Nancy Cuttic, BSDH, Barbara J. Melanson, RDH Anatomy of Orofacial Structures a comprehensive approach 7th Edition 2014, **pp.12-23** |
| ***practical training\ seminar*** | *2* | * Elevating mandible * Descending mandible * Protruding mandible |
| ***V*** | ***Lecture*** | *1* | Occlusion and articulation.  Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (Fourth Edition)2006,**pp49-56** |
| ***practical training\ seminar*** | *2* | * Consideration of location and functions of muscles of expression. * Expressing mastication load in kilos, development of force by muscles. |
| ***VI*** | ***Lecture*** | *1* | *Structure and function of periodontium*  Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (fifth Edition)ics , parode2016,**pp.117-137** |
| ***practical training\ seminar*** | *2* | [Orthognatic occlusion](https://www.multitran.ru/c/m.exe?t=2598430_1_2&s1=%EE%F0%F2%EE%E3%ED%E0%F2%E8%F7%E5%F1%EA%E8%E9%20%EF%F0%E8%EA%F3%F1) (normal), transitional forms of occlusion (boundary) |
| ***VII*** | ***Lecture*** | *1* | Anomalous occlusion  Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (fifth Edition)ics , parode2016,**pp.92-116** |
|  | ***practical training\ seminar*** | *2*  *1* | Consideration of structure and functions of component parts of paradontium.   * Periodontium; * Alveolar bone; |
| ***VIII*** |  | *2* | *Intermediate Exam* |
| ***IX*** | ***Lecture*** | *1* | Biomechanical peculiarities of lower jaw  Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (Fourth Edition)2006,**pp56-58** |
| ***practical training\ seminar*** | *2*  *1* | ***Type of occlusions:***   * distal, * anterior, * open, deep * cross occlusion |
| ***X*** | ***Lecture*** | *1* | Biomechanical peculiarities of lower jaw  John W. Campbell, PhD, Nancy Cuttic, BSDH, Barbara J. Melanson, RDH Anatomy of Orofacial Structures a comprehensive approach 7th Edition 2014, **pp.348-351** |
| ***practical training\ seminar*** | *2* | * Sagittal movements of lower jaw * Transverse movements and angles of lower jaw. |
| ***XI*** | ***Lecture*** | *1* | *Patient's examination methods*  John D. Jones ,Lily T.Garcia Removable Patial Dentures A clinician,s Guide 2009,**pp.25-41** |
| ***practical training\ seminar*** | *2* | Biomechanics of lower jaw   * Chewing and swallowing; * Producing a sound; * Speaking; * Breathing |
| ***XII*** | ***Lecture*** | *1* | *Patient's examination methods*  Diagnosis and treatment Planing in Dentistry 3th edition 2017,**pp.111-119** |
|  | ***practical training\ seminar*** | *2* | * *Collecting anamnesis* * Physical examination of a patient – determination of complexion and symmetry; * Identification of condition of temporomandibular joint; * Examination of function of muscles of mastication |
| ***XIII*** | ***Lecture*** | *1* | Paraclinical methods of examination  Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (fifth Edition)ics , parode2016,**pp18-20** |
|  | ***practical training\ seminar*** | *2* | * Examination of oral cavity; * Examination of teeth alignments; * Identification of pathological movement of teeth; * Determination of condition of the part of edentulous alveolar ridge |
| ***XIV*** | ***Lecture*** | *1* | *Summery* |
|  | ***Practical training\ seminar*** | *2* | *Presentation* |
| ***XV-XVI*** |  | *2* | ***Final Exam*** |
|  |  |  | ***Additional exam*** |