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**TBILISI HUMANITARIAN TEACHING UNIVERSITY**

**SILLABUS**

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| ***Name of educational course*** | *Treatment of partial edentulism with fixed prosthesis* |
| ***Code of educational course*** | *STOM0421DM* |
| ***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*** | *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 the classification of defects of dental arch caused by partial losing of teeth, purpose of bridge construction and sequence of clinical and laboratory stages.*  *The course aimed to mastering the student on the various skills that are: Provide effective and safe patient assessment and management; Perform and practice practical procedures effectively and safely; Formulate diagnosis of systemic medical conditions that present with oral symptoms and initiate appropriate management.* |
| ***Precondition for admission*** | *Fixed Dental Prosthesis* |
| ***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 - 14 points***  *A student is assessed 7 times during the course. Assessment of each 2 points, the maximum assessment – 14 points.*  ***Assessment criteria:***  ***2 points -*** *the student reveals the perfect, convincing and detailed knowledge of the material, uses specific terminology freely, actively completes the given tasks Uses information from reviewed materials, is interactive.*  ***1 point -*** *the material is not very well mastered by the student. Reveals only schematic knowledge, conveys material illogically, little mastery of specific terminology, difficulty in analyzing with reviewed material.*  ***0 point -*** *the student is passive, the material is not reviewed.*  ***Practical skills:*** *The student is assessed 5 times during the course. Assessment of each - 2 points. Maximum – 10 points.*  ***Assessment criteria:***  ***2 points -*** *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.*  ***1 point*** *- the student is not able to perfectly link the theoretical knowledge with the practical work, he/she is not able to perform the task assigned. Cannot use materials and instruments in proper sequence. Does not follow the norms of ethics in the work process.*  ***0 point -*** *The student does not have the proper theoretical knowledge, due to which he/she is unable to perform practical work, he/she is passive.*    ***Testing:***  ***2 points:*** *The student is given 10 tests. Each correct answer - 0.2 points. Incorrect answer 0 points. Maximum 2 points..*  ***Situational task - 3 points.***  ***Assessment criteria:***  ***3 points -*** *the student understands the situation well. Demonstrates the theoretical knowledge. He/she has good analytical skills, uses in making conclusions and therefore correctly diagnoses and makes decisions independently.*  ***2 points -*** *the student understands the situation, demonstrates the general theoretical knowledge but is not able to make correct decisions.*  ***1 point -*** *the student doesn’t understand the situation, demonstrates general theoretical knowledge, cannot make the right decisions*  ***0 point -*** *the student does not understand the situation at all or does not participate at all.*  ***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.*  ***Midterm exam - maximum 30 points***  ***a) Work (test form) -*** *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.*  ***b) Verbal quiz -*** *each closed ticket contains 3 questions / topics. Each is assessed with 0–5 points. Maximum - 15 points.*  ***Criteria for evaluating a 5-point 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.*  ***Final exam maximum 40 point***  ***a) Work (test form)*** *- the open test consists of 20 questions referring to the material passed, each correct answer is evaluated by 1 point. Incorrect answer - 0 point.*  ***b) Practical skills*** *- maximum 5 points.*  ***c) Ticket with closed questions.*** *Each ticket will will include three questions. Each case is assessed with 0-5 points. Maximum - 15 points.*  ***Criteria for assessing practical skills:***  ***5 points -*** *the student demonstrates good practical skills. Combines theoretical knowledge with practice well. 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*  ***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. *Alan .B. Carr, david T Brown McCrackens removable Partial Prosthodontics 12th edition. 2011* 2. *Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (Fourth Edition) 2006,* |
| ***Additional***  ***literature*** |  |
| ***Study results. Field competences*** | ***Knowledge***   1. *Student describes etiology of partial edentulism, overloading periodontal tissue;* 2. *Student determines changes related to losing of teeth form esthetic as well as functional points of view;* 3. *Student Classifies defects of teeth alignments;* 4. *Student defines purpose of bridge prostheses for treatment of partial edentulism, its component parts as well as indications and counter indications for application.*   ***Skills***   1. *Student applies therapeutic, surgical and prosthodontic preparation techniques;* 2. *Studenr prepares tooth for appling crowns;* 3. *Student makes adjustment of delivery crowns.* |
| ***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* | *Classification of defetcs of teeth alignment.*  *Alan .B. Carr, david T Brown McCrackens removable Partial Prosthodontics 12th edition. 2011****, Pp. 70-79*** |
| ***Practical training\seminar*** | *1* | *Syllabus presentation* |
| ***II*** | ***Lecture*** | *1* | *Teeth lines continuity disorder, Etiology of tooth loss*  *Alan .B. Carr, david T Brown McCrackens removable Partial Prosthodontics 12th edition. 2011****, pp. 21-31*** |
| ***Practical training\seminar*** | *2* | * *Classification of defetcs of teeth* * *functional and nonfunctional group of teeth* |
| ***III*** | ***Lecture*** | *1* | *Parodentium functional overloading and teeth lines deformation.*  *Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (Fourth Edition)2006,ics , parode*  ***pp.110-117,121-122*** |
| ***Practical training\seminar*** | *2* | *Causes of losing tooth, changes in dental arch caused by losing of tooth.* |
| ***IV*** | ***Lecture*** | *1* | *Changes occurring in temple-mandibular jaw joint related to teeth loss.*  *Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (Fourth Edition)2006,ics , parode****pp.87-89*** |
| ***Practical training\seminar*** | *2* | *Primary and secondary traumatic syndrome. Stage of compensation, traumatic occlusion. Mesial replacement of teeth. Teeth protrusion.* |
| ***V*** | ***Lecture*** | *1* | *Therapeutic, surgical and orthopedic Preparation techmiques for prosthodontic appliences in case of teeth partial loss.*  *Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (fifth Edition)ics , parode2016,****pp.169-209*** |
| ***Practical training\seminar*** | *2* | *Disturbance of normal functioning of joint, reduction of occlusal vertical dimension in case of partial losing of teeth. Disturbance of chewing, speaking and esthetic norms.* |
| ***VI*** | ***Lecture*** | *1* | *Prosthodontics appliences for partial edentulism*  *Bernard G N Smith, Leslie C Howe. Planning and making crowns and bridges. Fourth Edition 2007,****pp. 197-224*** |
| ***Practical training\seminar*** | *2* | *Specific therapeutic, surgical and orthopedic prepartaion of oral cavity.* |
| ***VII*** | ***Lecture*** | *1* | *Bio-mechanics of bridge prosthesis having bilateral support; Bio-mechanics of bridge prosthesis having unilateral support, Discussion of bridge prosthesis production positive and negative sides.*  *1.Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (Fourth Edition)2006,* ***pp.96-99*** |
|  | ***Practical training\seminar*** | *2* | ***Advantages and disadvantages of bridges construction during partial edentulism*** |
| ***VIII*** |  | *2* | *Intermediate exam* |
| ***IX*** | ***Lecture*** | *1* | *Dental impants, Method of inter-bone implant installation.*  *Bernard G N Smith, Leslie C Howe. Planning and making crowns and bridges. Fourth Edition 2007,* ***pp.261-296*** |
| ***Practical training\seminar*** | *2* | *Advantages and disadvantages of Bio-mechanics of bridge prosthesis* |
| ***X*** | ***Lecture*** | *1* | *Making bridge prosthesis subject to existence of two-side support and application of inserts (posts and cores). Peculiarities of prosthetics in case of tooth convergence.*  *Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (Fourth Edition)2006,* ***pp.89-95*** |
| ***Practical training\seminar*** | *2* | * *implants positive and negative sides and application in bridge prosthesis* * *Discussion of bridge prosthesis production positive and negative sides.* |
| ***XI*** | ***Lecture*** | *1* | *Prosthetics with bridge construction in case of teeth line front part defects.*  *Bridge prosthesis application in case of lateral inserted defects*  *Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (Fourth Edition)2006,****pp.379-397****ics , parode* |
| ***Practical training*** | *2* | *Application of bridge prosthesis in case of deformations caused by bounded edentulous space and mesial deviation of molars.* |
| ***XII*** | ***Lecture*** | *1* | *Clinical methods of denture treatment with bridge prosthesis. Clinical assessment of bridge prosthesis.*  *Contemorary Fixed Prothodontics // Rosensteil, Land, Fujimoto (Fourth Edition)2006****,pp. 89-99*** |
|  | ***Practical training\seminar*** | *2* | *Clinical and laboratory stages of prosthetics, adhesive prosthetics, temporary prosthesis of front and lateral defects* |
| ***XIII*** | ***Lecture*** | *1* | *Summery* |
|  | ***Practical training\seminar*** | *2* | *Presentation* |
| ***XIV-XV*** |  | *2* | ***Final exam*** |
|  |  |  | ***Additional exam*** |