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**TBILISI HUMANITARIAN TEACHING UNIVERSITY**

***SILLABUS***

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| ***Name of educational course*** | **Orthodontics dentistry (Treatment of Congenital defects)** |
| ***Code of educational course*** | STOM0436DM |
| ***Status of educational course*** | **C**ompulsory coursefor 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***  | Jaba Adamia- THTU associate professorConsultation days: according to consultation schedule |
| ***Goal of educational course*** | The goal of the course is to mastering a student on the diagnostics and treatment of abnormalities in the system of jaws and teeth developed during the congenial defects of face and jaws, traumatic injuries of jaws, the specificity of orthodontic treatment (pre-surgery and post-surgery orthodontics). |
| ***Precondition for admission***  | Orthodontics dentistry 3 (Alveolar arches deformations and treatment) |
| ***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.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 points** It is to be assessed by the current **oral interview** 8 times during curation, the maximum score is 2 points, (**16 points in total**).Assessment criteria:2 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.1.5 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.** **Practical training is conducted Five times in the semester - Maximum assessment – 1 points (Total 5 points)**1 points - The student analyzes principles of treatment and has ability to fulfill practical skills well0.5 points – The student analyzes principles of treatment and hasn’t ability to fulfill practical skills well 0 points - The student cannot analyzes principles of treatment and hasn’t ability to fulfill practical skills Writing quiz will be held on fifth week and will be assessed by 4 points (2 open questions will be assessed by 2 points)2 points- Answer is complete. The student has profoundly acquired the past material and has deep and profound knowledge of basic as well as supplementary literature. No mistakes are made. 1.5 points-the answer is complete. No essential mistakes are made. The student has good knowledge of past material envisaged under the program. He/she has acquired basic literature. 1 point- The answer is incomplete. Material relevant to the issue is provided partially. Student has insufficiently acquired basic literature. Several essential mistakes are made.0 point-The answer is irrelevant to the issue or is not presented at all. **Intermediate exam evaluation - in combined form, maximum 30 points**A) Writing (Test) – **20** points. The test consists of 20 multiple choise questions reflecting the previous material and each correct answer in the test is assessed by 1 point, the incorrect answer - 0 point.B) open question (two )-10. Each open question will be evaluated by 5 points * **5 points** – Answer is complete. It is presented in precise and exhaustive manner. The student has profoundly acquired the past material and has deep and profound knowledge of basic as well as supplementary literature. No mistakes are made. Student provides top-level reasoning.
* **4 points** – the answer is complete, however compressed. No essential mistakes are made. The student has good knowledge of past material envisaged under the program. He/she has acquired basic literature. Reasoning is made well.
* **3 points**- Answer is incomplete. The student has acquired material envisaged under the program however shortcomings are evident. Reasoning is fragmented.
* **2 points** – The answer is incomplete. Material relevant to the issue is provided partially. Student has insufficiently acquired basic literature. Several essential mistakes are made.
* **1 point**- The answer is deficient. The answer is essentially wrong. Only certain fragments of material relevant to the issue are presented.
* **0 point** – The answer is irrelevant to the issue or is not presented at all.

**Final exam:** 40 pointsA) Is conducted in written form (tested) – 30 tests are given to the student, reflecting the learnt material, one question is assessed by one point, maximum 20 points.B) Open question (two )-10. Each open question will be evaluated by 5 points * **5 points** – Answer is complete. It is presented in precise and exhaustive manner. The student has profoundly acquired the past material and has deep and profound knowledge of basic as well as supplementary literature. No mistakes are made. Student provides top-level reasoning.
* **4 points** – the answer is complete, however compressed. No essential mistakes are made. The student has good knowledge of past material envisaged under the program. He/she has acquired basic literature. Reasoning is made well.
* **3 points**- Answer is incomplete. The student has acquired material envisaged under the program however shortcomings are evident. Reasoning is fragmented.
* **2 points** – The answer is incomplete. Material relevant to the issue is provided partially. Student has insufficiently acquired basic literature. Several essential mistakes are made.
* **1 point**- The answer is deficient. The answer is essentially wrong. Only certain fragments of material relevant to the issue are presented.
* **0 point** – The answer is irrelevant to the issue or is not presented at all
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| ***Mandatory literature*** | Contemporary Orthodontics. William R. Proffit, Dds, Phd. 2013 |
| ***Additional******literature***  | Orthodontic therapy: fundamental treatment concepts. Andrea Wichelhaus; with the assistance of Tena Eichenberg. 2018 by Georg Thieme Verlag KG |
| ***Study results. Field competences*** | **Knowledge**1. Student describes peculiarities of abnormalities in the system of jaws and teeth developed as a result of the cleft lip and the principles of orthodontic treatment.
2. Student identifies traumatic damages of jaw bones and the principles of orthodontic treatment.
3. Student formulates the role of plastic and reconstructive surgery in the orthodontic treatment.
4. Student determines future needs for future learning in the field of orthodontics.

**Skills**1. Student usees clinical and laboratory methods for examination**.**
2. Student identifies of abnormalities originated after the chiloplasty on the upper cleft lip**.**
3. Student plans orthodontic treatment
4. Student selects of the treatment apparatus on the basis of the analysis of clinical signs and their Diagnostics during the traumatic injuries of the jaws.
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| ***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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| ***Day***  | ***Teaching method*** | ***Number of hours*** | ***Topic of practical or laboratory training of Lecture/work in the working group*** | ***Literature*** |
| ***I***  | ***Lecture*** | *2* | **Description of hereditary anomalies face, jaw and teeth.**Contemporary Orthodontics. William R. Proffit, Dds, Phd. 2013 **PP.181-203****PP. 266-278** |  |
| ***Practical training\seminar*** | *1* | *Syllabus presentation* |  |
| ***II***  | ***Lecture*** | *1* | Description of hereditary cleft of soft and hard palateContemporary Orthodontics. William R. Proffit, Dds, Phd. 2013 **PP.514-523** |  |
| ***Practical training\seminar*** | *2* | * Unilateral and bilateral cleft of lip
* Clinical picture, diagnostics, treatment of hereditary cleft of lip
* Dental arch and palate
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| ***III***  | ***Lecture*** | *1* | Description of hereditary cleft of soft and hard palateContemporary Orthodontics. William R. Proffit, Dds, Phd. 2013 **PP.523-527** |  |
| ***Practical training\seminar*** | *2* | * Hereditary cleft of soft palate: latent, complete and incomplete.
* Clinical picture, diagnostics and methods of treatment
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| ***IV***  | ***Lecture*** | *1* |  Combination of lip and palate cleftcontemporary Orthodontics. William R. Proffit, Dds, Phd. 2013 **PP.530-536** |  |
| ***Practical training\seminar*** | *2* | * Hereditary cleft of alveolar ridge and front part of hard palate
* Incomplete (unilateral and bilateral) and complete (unilateral and bilateral).
* Clinical picture, diagnostics and principles of treatment
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| ***V***  | ***Lecture*** | *1* | Treatment of Combinations of cleft palate and cleft of upper lipContemporary Orthodontics. William R. Proffit, Dds, Phd. 2013 **PP 570-582** |  |
| ***Practical training\seminar*** | *1**1* | Secondary cleft palate merged with cleft of upper lift and cleft of alveolar ridge.**Quiz** |  |
| ***VI***  | ***Lecture*** | *1* | *Treatment of diseases of temporo-mandibular joint, with orthodontic principles* Contemporary Orthodontics. William R. Proffit, Dds, Phd. 2013**PP.624-627** |  |
| ***Practical training\seminar*** | *2* | * Primary and secondary cleft of palate merged with cleft of upper lift and cleft of alveolar ridge.
* Clinical picture, diagnostics, treatment
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| ***VII***  | ***Lecture*** | *1* |  *Jaw and bone traumatic injuries*Contemporary Orthodontics. William R. Proffit, Dds, Phd. 2013**PP.661-685** |  |
|  | ***Practical training\seminar*** | *2* | * Development of new myotatic reflex of masticatory and mimic muscles, disocclusion of teeth arches.
* Removal of deformation of alveolar arch of lower jaw, prevention of secondary deformation of jaws
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| ***VIII***  |  | *2* | *Intermediate exam* |  |
| ***IX***  | ***Lecture*** | *1* |  *Jaw and bone traumatic injuries*Contemporary Orthodontics. William R. Proffit, Dds, Phd. 2013**PP.583-589** |  |
| ***Practical training\seminar*** | *2* | * Anomaly of location of teeth developed as a result of fracture of lower jaw, delay of eruption of teeth at the line of fracture.
* clinical picture, diagnostics, treatment.
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| ***X***  | ***Lecture*** | *1* | *Jaw and bone traumatic injuries*Contemporary Orthodontics. William R. Proffit, Dds, Phd. 2013**PP.304** |  |
| ***Practical training\seminar*** | *2* | * Maldevelopment of lengthwise sizes of bones of jaw as a result of neoarthrosis developed in case of damage of condylar ridge.
* Clinical picture, diagnostics and treatment
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| ***XI***  | ***Lecture*** | *1* | *Jaw and bone traumatic injuries*Contemporary Orthodontics. William R. Proffit, Dds, Phd. 2013**PP.627-637** |  |
| ***Practical training\seminar*** | *2* | * Bone hyperostosis developed as a result of contusion of nutrient artery.
* clinical picture, diagnostics, treatment
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| ***XII***  | ***Lecture*** | *1* | ***Principles of orthodontic treatment and Patients rehabilitation***Contemporary Orthodontics. William R. Proffit, Dds, Phd. 2013**PP.597-606** |  |
|  | ***Practical training\seminar*** | *2* | Anomalies of occlusion developed as a result of fracture of upper jaw |  |
| ***XIII***  | ***Lecture*** | *1* | *Summery* |  |
|  | ***Practical training\seminar*** | *2* | *Presentation* |  |
| ***XIV-XV*** |  | *2* | ***Final Exam*** |  |
|  |  |  | ***Additional exam*** |  |