



## Batumi Teaching University

<b>Educational program</b>	<b>Doctor of Dental Medicine</b>
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<b>Level of Education:</b>	First Cycle Educational Program
<b>Qualification to be conferred</b>	Doctor of Dental Medicine
<b>Teaching language</b>	English
<b>Volume of the program with credits:</b>	300 ECTS
<b>Approved by Order</b>	№1/4, May7, 2018 of the Rector
<b>Program manager</b>	Associate Professor Otar Darjania; Co-head of Program: Sopio Puturidze

<b>Preconditions for admission of the program:</b>	<p>Person(s) who hold the state certificate of full general education or other document with equal status have the right to study the educational program “Doctor of Dental Medicine”.</p> <p>The person with full general or equivalent education has the right to study on the program, which has a document certified by the state (certificate).</p> <p>Enrolment in the Educational program “Doctor of Dental Medicine” is possible on the results of the Unified National Exams, if the person has obtained at least 91% of the maximum assessment in English language exams and has passed the minimum competency limit in the remaining subjects.</p> <p>Enrolment in the Educational program “Doctor of Dental Medicine” without Unified National examinations, in accordance with the provisions of the Georgian legislation, the preconditions for admission of the present program and the rules established by the University. In this case, the person should be able to confirm the knowledge of English at B2 level.</p>
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	<p>It is possible to enrol in the Educational program “Doctor of Dental Medicine” on mobility in accordance with the provisions of the legislation, the preconditions for admission of the present program envisaged by Georgia’s legislation and the rules established by the University.</p>
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<p><b>Program structure</b></p>	<p>A) General Courses – 21 credits          B) Medical - biological courses – 81 credits          C) Therapeutic dentistry courses – 35 credits          D) Surgical dentistry courses – 35 credits          I) Prosthetic dentistry courses - 35 credits          F) Paediatric dentistry – 45: (Therapeutic dentistry of children’s ages - 21 credits. surgical dentistry of children’s ages - 12 credits Orthodontics - 12 credits)          G) Clinical courses – 42 credits          H) Elective courses – 6 credits</p>
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<p><b>Program applicability and reason of its offering</b></p>	<p>The increase of average life time of Georgian population, increase the number of population, development of insurance market, economic growth and increase of registered diseases created a need for qualified human resources in healthcare field including dentistry. For the last 5 years the local students interests toward the healthcare and social insurance educational programs and foreign students interests toward Georgian educational institutions have increased. In the previous years number of foreign students have dramatically increased, especially in the field of healthcare educational programs that creates a base for implementing foreign educational program in healthcare field. Besides, based on different researches youth considered a medical field as a high-paid profession, having a good reputation. That is approved by the fact that doctors’ salary increase year by year and the profession becomes attractive for young’s. The abovementioned issues result in an actuality of educational program ‘Doctor of Dental Medicine’ study.</p>
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<p><b>Goals of the Program:</b></p>	<p>The Program aims to train graduate who will be competitive and have high competency in their respective fields, who will be able to critically analyse and syntheses, identify and work through complex issues in the field in a multidisciplinary manner, through a comprehensive understanding and practical use of bioscience based dentistry and it's deep delving roots and being respectful to</p>
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	ethical values. Realizing the constant need of renewal and acquire new knowledge, to conduct one's own research and present research findings and provide arguments following all ethical standards.
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**Learning outcomes:**

he graduates of the educational program “Doctor of Dental Medicine” has the following field and general (transferable) skills:

<p><b>Knowledge and understanding</b></p>	<p><b>The graduate is able to:</b></p> <ul style="list-style-type: none"> <li>• Describe Basis and principles of biomedical sciences that covers the structure of human body, development of its components, anatomical and topographical features, biological, biochemical, biophysical, physiological processes of human body, ethology and pathogenesis of pathological processes from cells to whole organism that will enable them deeply understand the mechanisms of biological processes, pathologies in human body, ethology, pathogenesis, diagnostics, principles of treatment and management.</li> <li>• Define and discuss ethology, pathogenesis, clinical manifestation, methods of treatment of key therapeutic and surgical diseases that will enable understand them in relation with dental diseases.</li> <li>• Describe anatomy of the oral cavity and its organs, embryology, physiology, pathology.</li> <li>• Identify ethology, clinic, diagnostic and prevention methods of oral diseases; Differentiation of the disease and the latest principles of treatment and approaches.</li> <li>• Classify and identify types of modern dental sealant materials and their peculiarities, discuss techniques and principles of use, methods and principles of tooth recovery.</li> <li>• Describe and classify anaesthetics, their pharmacokinetic and pharmacodynamics; dosage, pathological reaction of medicine that will enable them understand the necessity of using apparatus and its mechanism of action; prescription of recipes.</li> <li>• Classify and characterize materials, set of instruments and apparatus used in dental practice.</li> </ul>
<p><b>Skill</b></p>	<p><b>The graduate is able to:</b></p> <ul style="list-style-type: none"> <li>• Gather and critically analyse the anamnesis, examine patients, register the data, and maintain patient’s medical history.</li> <li>• Determine the risk factors and prevention methods of oral cavity and teeth diseases, elaborate oral hygiene measures.</li> <li>• Conduct examinations of the oral cavity and jaw facial organs of children, adolescents and adults:(inflammatory and non-inflammatory, hard and soft tissues, infectious, allergic, specific), surgical (traumatic, tumour, nervous system, development hinges and anomalies) prosthetic and orthodontic disorders, prepare and use preventive measures, conduct the relevant preventive arrangements, determine the type and necessity of conducting research, diagnosis on prosthetic,</li> </ul>



	<p>orthodontic diseases, determine the treatment method, demonstrate medicinal measures on phantoms, perform surgical manipulation, assist doctor, prepare patients for dental procedures;</p> <ul style="list-style-type: none"> <li>• Define indications and contraindications of general and local anaesthetics, select materials, constructions and equipment. Define reanimation measures.</li> <li>• Conduct preventive prophylactic investigations of children and adolescents: determine Index, quality of injury, preparation and use of prophylactic means, appropriate preventive measures.</li> <li>• Use of modern dental sealant materials in restoration process and define the restoration method in a specific case.</li> <li>• Identify the pathology on the basis of the critical analysis of visual, objective, instrumental, laboratory examinations considering social and ethical principles '.</li> <li>• Use of medical treatment and methods for research results and diagnosis;</li> <li>• Perform oral and written report on the patient's condition;</li> <li>• Use modern information technologies in the professional activities;</li> <li>• Conduct effective verbal and non-verbal communication considering the patient's psychological and behavioural peculiarities;</li> <li>• Communicate with the patient in order to get informed consent and to make relevant records, establish adequate communication in the conflict situation with the patient /relatives;</li> <li>• Effective oral and written communication with the colleagues in relation to the professional issues;</li> <li>• Work in multidisciplinary group, process data considering decisions and priorities;</li> <li>• Communicate with disabled patients;</li> <li>• Give explanations and advice to the patient and his/her relatives in relation to the disease;</li> </ul>
<p><b>Responsibility and autonomy</b></p>	<ul style="list-style-type: none"> <li>• Protect patient's interests and confidentiality within professional ethics;</li> <li>• Use the ethical regulation of the field during the treatment of the patient;</li> <li>• Maintain professional values and work within professional ethics.</li> <li>• Participate in formation and establishment of ethical norms of the dental field.</li> </ul>

<p><b>Teaching and learning methods</b></p>	<p><b>In teaching and learning process, taking into account of specificity of the program component there are applied means of transferring of knowledge to a student such as:</b></p>
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- Discussion-debates. This is the most widely spread method of interactive teaching. This method increases the level of student engagement and activity. A discussion may turn into an argument and this process is not merely confined to the questions posed by the teacher. It develops students' skills of reasoning and substantiating their own ideas;
- Collaborative work; using this method implies dividing students into separate groups and giving each group its own task. The group members work at their issues individually and at the same time share their opinions with the rest of the group. According to the problem araised, it is possible to shift the functions among the group members in this process. This strategy ensures the students maximum involvement in the learning process;
- Cooperative teaching, that is a teaching strategy in the process of which each member of a group not only learn the subject, but also help his/her fellow-student to learn it better. Each member of the group works at the problem until all of them master the issue.
- Case study– This method implies to discuss concrete cases together with the students, for more visible and thorough presentation of theoretical material;
- Demonstration method implies presenting information with the help of visual aids. It is frequently advisable to present the material simultaneously through audio and visual means. The material can be presented both by a professor and a student;
- Practical methods unite all the teaching methods that stimulate developing practical skills in students. In this case a student independently performs different kinds of activity on the basis of the knowledge acquired e.g. field study, teaching practice, field work, etc.
- Induction, deduction, analysis and synthesis
  - The induction method of learning defines the form of transmitting any subject knowledge when the process is processed from concrete to general.
  - The deduction method of learning determines the form of transmission of any subject knowledge when the process is transmitted from the general to concrete.
  - The process of synthesis of teaching implies the creation of one whole group by grouping individual issues.
- Explanatory method is based on discussing a given issue. In the process of explaining the material the professor brings concrete examples the detailed analysis of which is made in the framework



	<p>of the given topic;</p> <ul style="list-style-type: none"><li>• Activity-oriented teaching implies professor and student's active involvement in the teaching process, when practical interpretation of the theoretical material takes place;</li><li>• Brainstorming –this method implies forming and presenting as many radically different ideas and opinions within the concrete topic/problem.</li><li>• Learning by teaching - in this case, the teacher is a coordinator, less an instructor. Students teach themselves independently which is considered as a part of communicative teaching;</li><li>• Audio-visual method- only a foreign language is required. During lectures and practical work information technology, slides, presentations are used. Students respond to questions. The same process repeats. The lecturer directs his/her attention to key words, using the demonstration method they are written on the board;</li><li>• Role-playing games and simulations –games played according to a previously prepared scenario enable students to estimate the problem from different points of view. This helps students to form alternative points of view.</li><li>• The Grammar Translation Method, the main purpose of which is to study the written translation and reading. Special texts are applied for the use of certain grammatical rules and work on these texts-memorable words, studying orthography and grammar.</li><li>• The direct method - learning the language from the very first day. Use of native language is prohibited. The idea lies within the natural study of material;</li><li>• Heuristic method is based on the step-by-step solving of a given problem. It is realized by means of independent fixing of the facts in the teaching process and determining the ties among them;</li><li>• Problem-based learning(PBL) is a method which uses a concrete problem as the initial stage both for acquiring new knowledge and integration process.</li></ul> <p>Used methods provide achievement of field and/or general competencies planned in accordance with program component. Combination of methods, used in all components of the program–formation of field and general (transfer) competence of alumni, are planned in accordance with the program.</p> <p><b>Note:</b> The methods of achieving learning outcomes (choices of the above-mentioned components) are presented in each syllabus of each course, which is selected by each lecturer individually based on the topics.</p>
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<b>Student knowledge assessment system</b>	<p>A credit can be obtained by the students after achievement of learning outcomes envisaged by the syllabus earning one of the positive assessments (according to the grading system approved by the order № 3, January 5, 2007 of the Minister of Education and Science of Georgia – On the Approval of the Procedure of Calculation of higher education programs in credits).</p> <p>It is unacceptable to evaluate the results of the student's achievement on a single basis only by final exam. Student's knowledge assessment includes:</p> <ul style="list-style-type: none"><li>• Assessment of activity;</li><li>• Assessments of Midterm exam / exams;</li><li>• Assessment of final exam.</li></ul> <p>Maximum assessment of the course is equal to 100 points.</p> <p>The Grading system shall allow:</p> <p>a) Five types of positive assessment:</p> <p>a. a) (A) Excellent – maximum assessment 91- 100 points;</p> <p>a. b) (B) Very good – maximum assessment 81 90 points;</p> <p>a. c) (C) Good – maximum assessment 71-80 points;</p> <p>a. d) (D) Satisfactory – maximum assessment 61- 70points;</p> <p>a. e) (E) Acceptable – maximum assessment 51- 60 points;</p> <p>b) Two types of negative assessments:</p> <p>b. a) (FX) Failure - maximum assessment 41-50 points, which means that student requires some more work before passing and is given a chance to sit an additional examination after independent work;</p> <p>b. b) (F)Failure - maximum assessment 40 points and less for maximum assessment which means that the work of student is not acceptable and he/she has to study the course anew.</p> <p>In case of receiving FX, the faculty is obliged to appoint an additional exam not less than 5 days after the announcement of the final assessment</p>
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	<p>results and shall be reflected on the exam table. The number of points received in the final assessment is not added to the assessment received by the student. The additional assessment is the final assessment and will be reflected in the final assessment of the educational component of the educational program. If the student at additional examination has got from 0 to 50 points, (F)-0 assessment is issued to the student in the final examination sheet.</p> <p>Total assessment of the student in the study course is the sum of the evaluations and final exam assessments. Evaluation components:</p> <ul style="list-style-type: none"><li>• Midterm assessment - 60 points;</li><li>• Final exam - 40 points.</li></ul> <p>The student is allowed to pass the final exam if he / she earns at least 40% (24 points) of the maximum score points. The final exam is considered to be passed if the student has accumulated less than 50% (20 points) in the final exam.</p> <p>In the syllabuses of the courses envisaged by the educational program curriculum are described in detail the mechanisms and components according to which the student accumulates the points for the activity;</p> <p>Midterm exams / exams are conducted in a written / verbal / testing form;</p> <p>The final exam is conducted in a written / oral /testing form depending on the specificity of the discipline.</p> <p>Evaluation methods used in the process of assessing students' knowledge are in full compliance with the entire program and the learning outcomes defined by its separate component / course, with relevant field and general (transferable) skills. Assessment forms and criteria for courses are given in the relevant syllabuses.</p> <p><b>Note:</b> The topics of the lecture course and training in the working group are the same. After hearing the lecture course, the work on the same topic has practical results and students can easily understand and acquire the study material.</p>
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<b>The possibility to continue learning</b>	The graduate can continue to pursue studies in the subsequent diploma education (professional preparation / residency) within the education program or at the third level of higher education.
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<b>Fields of employment</b>	The graduate of a diploma dentist can work as a junior doctor-dentist.
<b>Material-technical base of the program:</b>	The program is implemented on the base of Ltd. Batumi Teaching University which is equipped with the necessary material-technical resources for the implementation of the program. The library (where compulsory literature and electronic resources are available envisaged by program syllabus), two computer resource centres (free access to computers and Internet for students) and conference hall are functioning at the university. The university auditoriums, laboratories, dental office, academic and administrative personnel's working rooms are accordingly equipped. The relevant memorandums / contracts are concluded with medical clinics for realizing the program's practical component.
<b>Human resources of the program:</b>	he academic staff of the University participates in the implementation of the program, invited lecturers with relevant qualifications, which have the competence, professional experience relevant to program profile.