**Educational Program of Dentistry** 

Recent changes made to the program are discussed at the session of the faculty council: Protocol No. ∂11-23, 06.09.2023 Approved by the decision of the Governing Board: Resolution No. 28, 14.09.2023

Education level: One-cycle educational program

Instruction language: Georgian

Type of educational program: academic, basic

Detailed field name and code: 0911 Dental Medicine

Awarded qualification: Doctor f Dental Medicine (DMD)

Duration of studying: 5 years (10 semesters)

Educational program volume: 300 ECTS

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#### **Relevance of Program**

The profession of a Doctor of Dental Medicine is one of the most important directions in the field of health care, which is related to the maintenance and improvement of human oral health, as well as raising the quality of life. Patient safety is one of the urgent problems of modern medicine. Accordingly, the use of modern methods of prevention and treatment is relevant today, for which the presence of highly qualified personnel is required, the current market of medical personnel suffers from a shortage of relevant specialists.

Modern, rapidly developing high-tech research and treatment facilities and rapidly updating medical knowledge lead to an increase in the number of pathologies detected at the initial stage of the disease and the average life expectancy of the population.

In many cases, the specialists employed in dental clinics and offices lack modern knowledge and experience, which affects the qualified service and quality of the patient accordingly. The problem can be solved only by raising the quality of teaching at the appropriate level of academic education and implementing educational programs corresponding to the market demand.

# Prerequisites for admission to the program

The following will be admitted to the one-cycle educational program of a Dentistry:

A person with a document confirming complete general education or equivalent, who will be entitled to study at a European university based on the ranking of the coefficients of points obtained in the unified national exams.

To enroll in the program, the entrant must pass the following subjects:

a) Georgian language and Literature, English language/German language/ /French language/Russian language, Biology.

b) One of the following subjects: Chemistry/Mathematics/Physics. The number of places reserved for subjects should not be less than 30% of the places announced on the program. The exact percentage distribution will be decided by the program head before the announcement of seats.

# The person will get the right to study on the program without passing the unified national exams as follows:

On the basis of Order No. 224/N of the Minister of Education and Science of Georgia dated December 29, 2011 "on the approval of the procedure for submission and review of documents by students/ Entrants/candidates for master's degrees/students with the right to study without passing unified national exams/universal master's degree exams at a higher educational institution", they have the right to enroll in the university without passing the unified national exams. The mentioned persons are obliged to confirm the B2 level of the Georgian language in accordance with the "Rule for determining the language competence of a European University student".

# The following will also be admitted to the program:

Students enrolled by the rule of mobility in accordance with Order No. 10/N "On approval of the procedure and fees for transferring from a higher educational institution to another higher educational institution" of the Minister of Education and Science of Georgia dated February 4, 2010.

The goal of the program is to train a professional dentist in accordance with modern international standards, who: possesses the theoretical knowledge and practical skills required for professional activity (1), who will competently use research, ethical and communication skills (2), who will develop professionally in a constantly changing environment (3).

### Learning Outcomes

1	Describes the systems of the human body, its constituent units, tissues, their interrelationships, developmental features and functions; explains the anatomical and physiological features of the body and the biochemical processes taking place in the living body; Considers the body as a single system. Recognizes and differentiates normal and pathological cases, determines the causes of pathologies. Names preventive measures and explains the necessity and importance of their implementation.
2	Determines the structure of dental equipment, rules of operation, purpose of medical and dental materials, tools, uses them. Selects aseptic, antiseptic methods and explains their importance in maintaining sanitary and hygienic norms. Observes hygienic norms, manages/utilizes the wastes.
3	Describes the etiology and pathogenesis of diseases of the soft and hard tissues of the tooth. formulates a diagnosis, as well as differential diagnosis, as a result of which, taking into account the patient's age characteristics, selects and implements adequate, modern preventive and curative measures.
4	Interprets periodontal tissue and oral mucosa diseases. Determines their diagnosis, including differential diagnosis. Evaluates, selects and carries out modern preventive and curative manipulations.
5	Compares odontogenic and non-odontogenic inflammatory diseases of the maxillofacial area, as well as neoplastic changes and traumatic injuries. On the basis of which it justifies the need for conservative, surgical, reconstructive or restorative treatment.
6	Categorizes surgical diseases of the oral cavity. Defines traumatic injuries. According to the etiology, pathogenesis and diagnosis, chooses the appropriate treatment methods.
7	Interprets anomalies of the maxillo-dental system, including, differentiates and diagnoses them, determines etiological factors. Based on the received data, chooses orthodontic treatment tactics and appropriate orthodontic devices.

8	Differentiates various diseases common in orthopedic dentistry according to their etiology, pathogenesis, degree and type of damage. Conducts diagnostic procedures in orthopedic dentistry, as a result of which selects appropriate constructions.
9	Selects the types and methods of local and general anesthesia. Explains and manages possible complications of local anesthesia.
10	Collects anamnesis, examines the patient, fills in the medical card, determines the need for additional examinations. Analyzes and interprets received data, conducts differential diagnosis and establishes a diagnosis. Demonstrates basic clinical skills.
11	Defines and explains the importance of applying ethical norms and legal regulations in medical practice. Communicates verbally and in writing on issues related to the field. Establishes the research design, plans the research process in detail, processes the obtained research results and makes appropriate conclusions. Discusses the methodology of conducting scientific research;
12	Evaluates and substantiates the need for further professional development and constant familiarization with the innovations in the field.

## Volume and Structure of Program

The program is made on the basis of the European Credit Transfer System (ECTS), is student-centered, and is based on the student's academic load required to achieve the goals of the educational program.

The duration of the program is 5 academic years or 10 semesters and includes 300 credits (7 500 hours in total).

1 credit includes 25 astronomical hours.

A credit in a unit of time (hours) reflects the volume of work required by the student to master the relevant study course of the program and to achieve the learning outcomes. Credit includes contact and independent work hours.

During the semester, the student must complete 30 credits (30 credits = 750 hours), and 60 credits per year, however, depending on the student's individual workload, the number of credits per year may be less than 60 or more, but not more than 75 credits.

One- cycle educational program of Dentistry includes:

Components of the main field of study with the volume of 270 credits. Including:

a) mandatory components of the main field of study with the volume of 258 credits;

b) optional components of the main field of study with the volume of 12 credits.

The educational program also includes a free component with the volume of 30 credits, including:

a) a free component with a volume of 20 credits, which is focused on the development of general transferable skills;

b) Free component with the volume of 10 credits, within which the student is given the opportunity to choose study courses from any educational program of the relevant level operating in the university, observing the prerequisites for admission to the study course.

One-cycle educational program of dentistry is divided into 3 parts:

# Part I - Structure and functions of the human body (I-II course)

The Basics of General Medicine phase includes basic concepts of biomedical sciences and the structure and function of the human body. During the first two courses, students will learn about the structure of the human body, life sciences and principles of research in the field, clinical and professional skills (communication and procedural skills, medical ethics), public health basics. The mentioned integrated modules will be taught using different teaching methods (interactive lectures, role-playing games, practical work, training in a simulation center using simulators and mannequins, etc.). Students will learn key practical skills (working on phantoms) in the phantom class. Through simulation learning, students will gain knowledge based on experience; Also, through virtual dissection of specific clinical cases and discussion on mannequins, students will learn regional anatomy. In addition, from the very first year, students will be involved in the PBL - problem-based learning course, which will have a longitudinal character. At the end of the spectrum courses of the main field of study, students take an integrated exam (test questions with multiple choice answers and OSCE).

### Part II - Mechanisms of health and disease (III-IV course)

The second part is devoted to the clinical part (propaedeutics and clinical skills). This part is mainly focused on the most common symptoms and signs of diseases. In addition, students perfect their physical examination skills. During the 3rd year, students learn diagnostic thinking through the review of cases from different medical areas, which in turn helps to integrate the acquired knowledge and prepares students to fully understand the clinical training courses, most of which are initiated in the program from the following year. During the IV course, students study basic dental and clinical training courses in the form of clinical rotations - dermatology, pediatrics, otorhinolaryngology, etc. The mentioned modules are taught in both outpatient and clinical condition. The most important aspect of the second part is the inclusion of clinical training courses in the main field of study, during which students continue to master the manual skills of the field and the clinical symptomatology of dental diseases. At the end of most courses, students take an integrated exam (test questions with multiple-choice answers and OSCE).

# Part III - Clinical training courses of the main field of study (Course V)

The third part is the main part related to the field of study (Therapeutic, Surgical and Orthopedic Dentistry, Therapeutic and Surgical Dentistry for children, Orthodontics), a continuation of clinical training courses, during which students continue to learn professional skills. During the V graduate course, students will have the opportunity for additional clinical activities to develop and perfect competencies in the core study area. At the end of a certain rotation, students take an integrated exam. Within the framework of the same course, students are given various clinical assignments, the completion of which prepares the graduate students for the future specialization and post-diploma residency program.

#### Assessment System of Student's Knowledge

The evaluation system used within the program is in accordance with the "Rules for calculating credits for higher education programs" approved by Order No. 3 of the Minister of Education and Science of Georgia on January 5, 2007.

The level of achievement of the learning outcome is assessed by assessment forms, mid-term assessment and final assessment, the sum of which represents the final assessment. The maximum final grade of the training course is 100 points.

The evaluation system provides for:

#### a) Five types of positive assessment:

- (A) Excellent 91-100 points;
- (B) Very good 81-90 points;
- (C) Good 71-80 points;
- (D) Satisfactory 61-70 points;
- (E) Sufficient 51-60 points.

#### b) Two types of negative assessment:

(FX) Failed - 41-50 points, which means that the student needs more work to pass and is allowed to take the additional exam once with independent work;

(F) Failed – 40 points and less, which means that the work done by the student is not enough and he has to study the course/subject again.

In case of receiving a negative evaluation (FX) in the component of the educational program, the student has the right to take an additional exam. The student gets the right to take the additional exam even if he/she has scored 51 points or more in the final assessment, but has not passed the minimum

competence limit defined for the final exam. An additional exam is scheduled at least 5 days after the announcement of the final exam results.

The number of points obtained in the final assessment is not added to the grade received by the student in the additional exam. The grade obtained on the additional exam is the final grade and is reflected in the final grade of the educational program component.

The share of the final exam in the final assessment is 40% (40 points), therefore, the share of the midterm assessment is 60% (60 points) of the final assessment.

The midterm assessment is divided into components. A mandatory component of the mid-term assessment is the mid-term exam, which is held in the 8th-9th week (the period of the mid-term exam during curative teaching is specified in the syllabus of the relevant training course). The content and distribution of the midterm assessment components is determined by the staff implementing the training course within the framework of the relevant syllabus.

A student will be admitted to the final exam if the minimum limit of the mid-term assessment is exceeded. The final exam will be considered passed if the minimum limit for the final exam is exceeded.

The following minimum competency limits are defined for the midterm assessment and the final exam: 50% of the midterm assessment (to be admitted to the final exam, the student's midterm assessment must be at least 30 points), 50%+1 of the final exam assessment (for the final exam to be considered passed, the final exam assessment must be at least 21 points).

The credit will be considered as mastered if the sum of the points obtained based on the minimum limit established for the mid-term assessment and the minimum limit established in the final exam is obtained by summing up 51 points or more.

The staff implementing the training course, taking into account the specifics of the training course, is authorized to define different (higher) minimum competency limits for mid-term and final assessments, in accordance with the requirements established by the current legislation of Georgia.

In the case of integrated study courses, the staff implementing the course is authorized to determine the minimum competence limit for each component of the same course. In this case, it will be possible to grant credit in the case of passing the minimum competence threshold established for each component, passing the minimum competence threshold in the evaluation components of the course (midterm and final assessment) and receiving at least 51 points as a result of summing up the points obtained in the midterm and final assessments.

The staff implementing the study course, taking into account the goals, learning outcomes and specifics of the course, is also authorized to determine the minimum competence level in the evaluation method/methods. If there is a minimum competency limit in the assessment method/methods, credit will be granted by passing the minimum competency limit in each assessment method, passing the

minimum competency limit in each assessment component (mid-term and final assessment) and obtaining at least 51 points as a result of summing the points obtained in the mid-term and final assessments in case.

#### Field of Employment

According to the current legislation of Georgia, a graduate of the one-cycle educational program of a Dentistry has the right to carry out independent medical activity in case of obtaining a state certificate confirming the right to independent medical activity (Law of Georgia on medical activity, Article 7).

According to the Law on Medical Activities (Article 17), a graduate with a higher medical education has the right to carry out the following activities:

a) to pass the post-secondary professional training course and after taking the state certification exam, get the right to independent medical activity;

b) to carry out research and teaching activities in the theoretical fields of medicine or in other areas of health care, which do not involve independent medical activity;

c) to work as a junior doctor.