Caucasus International University

Tbilisi, 2024 year

Faculty of Medicine

One-step higher education program in English

Dental Medicine

0911.1.1

Modified program

Approved at the session of the Academic Council

Minutes N 03-2024

19 April, 2024

According to the resolution of the Academic Council

N 03-2024

19 April, 2024

1. Name of the educational program

Dental Educational Program in English

2. Step of the Higher Academic Education

Single-step program

3. Type of the educational program

Academic Higher Educational Program

4. Broad field

Health and Welfare

5. Narrow field

Health

6. Detailed field

Dental studies

7. Field of study

Dental Medicine

8. Program volume in credits

300 Credits

9. Duration of study

5 years, 10 semesters

10.Tuition Form

Full-time study

11. Tuition Language

English

12. Qualification to be awarded

Doctor of Dental Medicine (DMD)

13. Program Manager

Lela Tsitaishvili, Academic Doctor of Medicine, Professor of Faculty of Medicine of the Caucasus International University.

14. Precondition for admission to the program

To support enrollees and with the purpose of mobility of students, subject to the rule and within the terms determined by the Ministry of Education and Science of Georgia, studying at higher education institutions without taking unified national exams is allowed for:

A) Citizens of foreign countries and stateless persons who have studied abroad and acquired general education or its equivalent;

B) Citizens of Georgia who have acquired complete general education or its equivalent abroad and studies in a foreign country for the last 2 years of general education;

C) Foreign citizens (save to students participating in joint higher education programs or exchange education programs) studying/having studied and received credits/qualification in a foreign country at a higher education institution acknowledged in compliance with legislation of the concerned country;

D) Citizens of Georgia (save to students participating in joint higher education programs or exchange education programs) who, for the term determined by the Ministry of Education and Science of Georgia, are living/have lived, are studying/have studied andreceived credits/qualification in a foreign country at a higher education institution acknowledged in compliance with legislation of the concerned country.

The mandatory precondition to enrollat the program is having level B1 in English.

To prove that command of English complies with level B1, a person is obliged to submit to the University a relevant certificate or take a test conducted by the Language Center of the University.

Georgian nationals who have passed unified national exams can be enrolled in the "Dental Educational Program in English" upon presenting B1 English language certificate.

Upon obtainment of the status of a student of Caucasus International University, a person is obliged to submit to the University a document approving complete general or equivalent education while a person being on file for military service in line with the applicable legislation shall submit a document confirming that a person is on file for military service.

Enrollment at Dental Educational Program via mobility is permitted upon completion of one academic year. Mobility is allowed twice a year within the term established by the Ministry of Education and Science of Georgia with observation of obligatory procedures approved by the Act of the Director of LEPL National Center of Education Quality Enhancement and rules determined by the University.

Students already enrolled in the "Dental Educational Program in Georgian" can be transferred on the "Dental Educational Program in English" based on unified national exams and upon presenting B2 English language certificate.

15. Duration and Volume of Studies

- One academic year lasts for **38 weeks;**
- I term duration is **19 weeks;**
- II term duration is **19 weeks.**

Out of which:

(a) Period from **1st to 15th week** is the period of studies, when lecture-seminars, practical and laboratory trainings, midterm examinations are held, presentations and research papers are prepared, made and defended.

(b) During the period from **16th to 18th week** final examinations are held;

(c) During the final **19th week** reexaminations are held.

15. The objective of educational program:

Educational Program in Dentistry is focused on training of highly qualified specialists equipped with university education, basic and clinical theoretical knowledge in dentistry, practical skills and high moral standards. It strives for establishment and development of skills necessary for professional activity.

In light of the aforementioned, the goal of the program is:

- Acquirement of the university education in conformity with the modern requirements;
- Knowledge of the basic sciences;
- Awareness of public healthcare system and realization of the role of a dentist within this system;
- In-depth learning of the Field of study clinical disciplines
- Acquirement of general clinical skills within the competence of a dentist with the purpose of providing quality first aid and reanimation measures;
- Mastering contemporary techniques of specific dental aid, formation and development of skills essential for carrying out clinical, diagnostic and practical activities.
- Knowledge of ethical and legal principles;
- Motivation for life-long medical education and professional development.
- Preparartion for further steps of studying – residency or doctorate programs.

16. Structure and Profile of Educational Program

Dental educational program - 300 credits

Dental educational program is the educational program focused on training students for the respective profession.

With the purpose of development of relevant behavioral components, it is essential to integrate fundamental (theoretical, basic) and practical (clinical) courses of study.

Mandatory Components 284 credits, including:

- Mandatory university courses of study – **12 credits;**
- Mandatory faculty courses of study– **30 credits;**
- Mandatory basic courses of study in the Field of study – **87 credits;**
- Mandatory clinical courses of study in the Field of study – **155 credits.**

Optional Components: 16 credits, including:

Optional university courses of study – **10 credits;**

Optional faculty courses of study – **6 credits.**

17. Methods of achieving the outcomes of the study (methodology of study)

The process of study is based on the modern methods of teaching with special focus on application of methods like interactive lectures, case analysis, individual and group presentations, and seminars based on the real theoretical and clinical cases and materials.

The goals and tasks of the study defined within the educational program are achieved through a cycle of theoretical and practical sessions.

The purpose of the theoretical sessions is to review basic topics of the educational program in theoretical perspective and provide students with mandatory literature and information on the methodological foundations of the discipline under study.

The purpose of the practical sessions is to help the student enhance obtained theoretical knowledge; appropriately comprehend the essence and significance of the issue under study and identify the capacities for its practical application; develop skills for objective analyzes and assessment of the factors influencing the preparation and approval of the decisions with respect to the subjects, also skills to be used for practical activities and independent work.

During the training process, a particular attention is paid to using active methods of teaching.

Basically, the following methods are used during the lectures:

- **Verbal or oral method** (oral presentation of lectures and seminars, presentation);
- **Oral presentation of the seminar and training materials in Power Point format** (the seminars based on actual theoretical and clinical cases and materials).
- **PBL-Problem Based Learning;**
- **TBL-Team Based Learning;**
- **CBCR (Case-Based Clinical Reasoning);**
- ***FC-Flipped Classroom;***
- **Group discussion/debate** (challenging the students to debate; expressing one's own viewpoint during an interactive lecture);
- **The method of working on the book;**
- **The method of writing work**, which implies the following: test work, quizzes, solving exercises and problems, making notes of main and complementary training literature;
- **The collaboration method** - mutual assessment of the knowledge and communication skills acquired by the students; the use of the students' self-assessment for the formation of ultimate evaluation;
- **Brainstorming** - implies stimulating the realization of the students' mental capacities, during which various ideas proposed by students are generated around one particular issue and then classified and prioritized)
- **The demonstrative method;**
- **The method of searching for innovative information/material;**
- **Participation in scientific research;**

During the practical sessions, the following methods will considerably contribute to the strengthening of the obtained knowledge and the development of the skills necessary for carrying out professional activities by the student:

- **(CBL) -** Analysis of a case or the case-study method which describes the specific situations, **clinical cases, problems,** requires discussion and serves as an incentive for logical reasoning by the students;
- **Group discussion/debates** prompting an argument among students during practical training, expressing one's own viewpoints;

- **Team work** implying formation of team of 5-6 students within academic groups; mutual presentation of seminars and scheduled training-creative projects; development of healthy competition among the groups;
- **Clinical rotations** at university and training dental and general clinics;
- **Bedside/chairside teaching;**
- **Role plays** – performing roles of a physician and a patient;
- **Practical assignment** under supervision;
- **Study in clinical environment and development of clinical thinking; working on the patients under supervison of professors;**
- **Use of training videos/films;**
- **Teaching with use of simulator;**
- **Accomplishment of practical procedures required for development of competences of first aid and dentist in an appropriately equipped environment;**
- **Conducting laboratory trainings;**
- **Counseling and independent work.**

Every clinical academic course is conducted via curating methodology from VII term.

18. Study, training and evaluation:

Integration of theoretical and practical training, and development of clinical skills at a virtual simulation center (for the first and second-year students) and in the clinic environment (for senior students) are the essential precondition for training. The university should give preferences to new technologies during the training process. The training is carried out with application of the following methods:

Discussion/debates methods, the cooperative training, case-study, the demonstrative method and the explanatory method. It is necessary to apply simulants and molds. Upon completing the educational program, the graduates shall be able to demonstrate the clinical skills acquired during the training process, independently, on the simulators or under supervision.

Knowledge and skills should be assessed by means of both oral and (written) tests, practical exam, objectively structured clinical examination (OSCE), presentations, abstract-thesis. DOPS (Direct Observation for Procedural Skills) and Mini-CEX (Mini Clinical Evaluation Exercise) - Mini-Cex are used for assessment the clinical skill in the clinical environment whilst working on the patients as well.

It is very important to apply the following forms of teaching during the training process:

- Interactive lectures, seminars and interim exams;
- Teaching in the clinical environment.
- Use of simulators and moulages;
- Playing role of apatient and a physician;
- Laboratory study;
- Presentations;
- Participation in scientific research;
- Practical courses at clinical facilities.

An essential requirement for the result-oriented training is an early involvement of the student in scientific work. Specific hours within the curriculum are designated for participation of the student in the research. It is important that students not only learn how to assess scientific information critically, but also acquire basic

principles for organisaton, conduct and analysis of the research and presention of its findings. The students attend and participate in the scientific conferences organized by the university.

The evaluation of the training outcomes upon completion of basic medical education course implies assessing both theoretical knowledge and practical skills.

Recommendations for the assessment of the study outcomes and competencies are provided in detail in the joint document prepared by WFME and MEDINE – "Global standards for medical education quality enhancement with account of European specifics" and conform to the competencies developed by TUNING/MEDINE.

Within the basic medical education, a considerable significance is attached to the development of clinical skills. By the direct contact with the patient in the university clinic, the student develops certain clinical skills which are vital at the pre-clinical stage of the study.

In future, the computerized training programs illustrating actual disease with maximum precision, a diagnostic or therapeutic procedure will be applied in the training process.

19. Outcomes of Study

Integrity of the components of the Dental Educational Program ensures echievment of the program goals and appropriate outcomes of the study, suitable to the relevant step (level) described in the Higher Education Qualifications Framework.

The program study outcomes fully meet the necessary education level and skills needed for continuation of postgraduate education, and the graduates are consistent for employment opportunity within the framework of competences they have already acquired.

Sectoral Competences **Knowledge and Understanding**	**Upon completion of the educational program a graduate is** equipped with the basic theoretical knowledge and clinical skills and habits necessary for professional activity, enabling to successfully and consciously perform the professional role and functions of a dentist; • Is familiar with the health care system of the country and realizes the role and function of a dentist as a specialist within the framework of the system; • Is familiar with the safety rules, understands importance of observing the rules and principles of infection control to ensure a safe working environment; • Is able to observe the rules of aseptic and antiseptics in compliance with sanitary-hygiene norms, knows how to cope with especially hazardous infections and sterilize instruments, observe personal hygiene and disinfect surfaces; • Knows the principles of information registration, storage and dissemination; • Understands the role of stomatologist in the health promotion and protection issue, both individually, and in the context of activity within a multidisciplinary, professional team as well; • has knowledge of the basic medical and general clinical sciences and the skill of its practical application in the field of specialization; • Has knowledge of methodology and ethics; • Is able to identify a complex problem in the field of specialization and search the ways of solving the problem; • Is able to observe the safety rules of the patient and the doctor – stomatologist; can identify deontological, psychological and social problems and their situational management within the limits of competences; • has the basic knowledge of identifdication and evaluation of an emergency, and acute condition within the limits of his/her competences; • Has knowledge on prevention of a dental diseases and is able to apply it in practice;

	• Is aware of the principles of operation of modern dental devices and peculiarities of their application; • Is familiar with the rules of placement of dental chair in the dental office, position of a patient in the chair and positions of the dentist in relation to the patient; • Is equipped with the knowledge on application of the methods of allergic, cytological, biochemical, histological, x-ray examination in case of necessity; • Is familiar with the purpose of devices and instruments used in the clinic and has appropriate knowledge on their application; • Is familiar with anatomy of primary and permanent teeth, charateristics and morphology of primary and permanent teeth; • Is familiar with application of islolation system for different dental procedures , modern preparation tecniques of caries; • Is aware of characteristics of dental materials, their use for different classes treatment, that enables him to use knowledge and skills acquired within the course in the future for his/her independent clinical practical activity, peculiarities of working with materials; • Is familiar with peculiarities of dental materials use, in particular general and private properties of filling materials and is able to apply them as required; • Is familiar with group characteristic of teeth, peculiarities groups of teeth, topography and number of roots, root canals, their ramification and additional canals. • Is familiar with all endodontic instruments grouping according to their functions and principles of working with them, intracoronal and intraradicular preparation, how to accomplish complex endodontic manipulations; • Identifies age related particularities of diseases of various etiology and pathogenesis in the therapeutic stomatology for children and adolescents, knows principles of disease classification, diagnosis, differential diagnosis, and treatment; • Classifies non-carious diseases, carious and its complications in form of endodontic diseases (pulpitis and apical periodontitis), periodontal diseases amd oral mucosa disorders, their etiology, pathogenesis, clinic and applies the methods of diagnosis, differential diagnosis and treatment in practice; • Is familiar with the structure and functions of various organs of masticatory and articulatory organs, structure and biomechanics of temporomandibular joint, location of facial and mastication muscles and their role in performing the act of chewing, swallowing and speaking; • Identifies dental materials and knows the principles of their appropriate use in prosthodontics; • Is familiar with prosthodontics pathologies, treatment planning, selection of prosthodontics construction, prepararion of abutment teeth and amking the construction; • Is familiar with specific and quantitive assessment shape of region of a head and a neck, understanding in the layer structure of head and neck region, indicatitors for anesthetization of nerve peripheral branches of upper (maxilla) and lower jaw (mandible); methods of cranial trepanation; incisions on the face and their topographic anatomy; surgeries on the neck; • Is familiar with odontogenic and non-odontogenic infections in maxilla-facial area , etiology, pathogenesis, clinical picture, diagnostics, differential diagnostics and

	treatment methods of diseases of salivary glands , TMJ problems and maxillo-facial area traumatic injuries; • Selects adequate plastic surgery methods applied in the maxillofacial Reconstructive Surgery; • Identify causes of development of congenital and acquired anomalies of the jaws and facial area and knows the clinical picture respective to the localization of damage; • Has theoretical basis for restoration of the separate parts of the Jaw and facial region: the nose, lips, cheeks, eyebrows, ear shell, eyelids; • Knows fundamentals of the implantology and the general principles of stomatology; • Knows different types of the dental materials intended for implantation and their properties; about the indication and contraindication for conductiong the dental implantation; about the operation planning tactics and post-surgary treatment; • knows surgical treatment methods for periodontal disesaes, flap surgery, gingivoplasty, vestibuloplasty, surgical treatment of short and long frenulum and its incorrect attachment; • knows extraction of primary and permanent teeth in children patients, types of anaesthesia, anesthetic solutions used and techniques of anesthesia performance; • Knows classification, diagnosis, differential diagnosis, and treatment principles of diseases with different etiology and pathogenesis in the stomatological surgery for children and adolescents; management of the patients having acute trauma of the jaw and facial area in the emergency assistance block; • Knows classification, diagnosis, differential diagnosis, and treatment principles of diseases with different etiology and pathogenesis in the orthopedic stomatology and the maxillofacial orthopedics; management of the orthopedic patients; • Knows classification, diagnosis, differential diagnosis, and treatment principles of diseases with different etiology and pathogenesis in the orthodontics; • Knows classification, diagnosis, differential diagnosis of the oral, head and neck oncological deseases and drafting the treatment algorithm.

Skill	**Upon completion of the program, the graduate is able to:** • apply the acquired knowledge and practical skills to ensure the work planning, appropriate management and growing quality within the limits of competence; • assess comprehensively, systematically and accurately the need for professional help and ensure patient safety; • elaborate and implement individual recommendations for the Dental diseases prevention; • select and implement methods of diagnosis, deferential diagnosis, draw up the treatment plan and select treatment methods of carious and non-carious diseases; diseases of pulp and periodontal ligament, periodontal diseases and oral mucosa disorders; • provide routine medical examinations within his/her competences to be carried out in case of need, study essential functional parametres of the organism, elaborate oral hygiene recommendations taking into account patients age and dental status; • carry out primary treatment and care of wounds of maxillofacial area, extraction of primary and secondary teeth; • make clinical and paraclinical diagnostics of prosthodontics patient, take anamnesis and perform detailed examination of the oral cavity; • diagnose orthopedic pathologies, draft a treatment plan, select an orthopedic constructions design; prepare abutment teeth and make the construction; • diagnose occlusion abnormality, draw up a treatment plan and participate in selection of an equipment with the appropriate constructions; • participate in the process of planning the method of surgery in case of inherited and acquired deformations with consideration of age of a patient, causes of deformations and their limitation; • participate in planning of dental implantation surgery; • make the clinical assessment of periodontal patient, plan the operation method and prognose anticipated results; • take part in planning of surgical method for treatment of inherited cleft lip and cleft palate; • participate in drafting the algorithm for differential diagnosis and treatment of the oncological diseases of the oral cavity and maxillofacial area.

Responsibility and Autonomy	**Upon completion of the program, the graduate is able to:** • organize sanitary and hygienic requirements in dental departments and offices, accomplish acseptics and atiseptics main principles –decontamination, disinfection, sterilization; • manipulate with dental installations and their main component elements. Apply stationary and portable devices for intended purpose and functions. Apply handpieces and burs of various types; • collect medical history; • carry out objective investigation; • give explanations and advice; • encourage a patient and protect his/her rights; • evaluate psychological status of a patient; • realize and assess complexity of a clinical case; • prescribe relevant dental clinical and paraclinical examination as required and interpret results; • identify and assess urgent medical condition; • provide basic first aid; • perform the venipuncture, injection under the skin and muscle, injection of a drug intravenously and use the infusion device, place sutures on the skin and mucous membranes; • place suture; • provide medical aid at the site of trauma and prevention of complications; • put bandage on the wound in case of bleeding injured tissues of face; • elaborate oral hygiene recommendations taking into account patients age and dental status; • treat/manage pain; • the competences aquired during the study helps postgraduates to make appropriate decisions independentely in therapeutic and surgical dentistry prosthodontics, orthodontics while carriying out the practical activity of a doctor .

The graduate is able to apply evidence-based principles, skills and knowledge

- Use evidences in practice;
- Correctly determine and carry out research of relevant literature;
- Make critical assessment of publications, make conclusions and apply them in practical activity;

The graduate is able to make efficient use of information and information technologies within the medical context:

- Keep accurate and complete clinical records;
- Apply modern information technologies in practical activity;
- Search specific information resources;
- Store information and use it on a later stage;
- Keep personal notes (portfolio).

The graduate is able to use scientific principles, methods and knowledge of biomedicine in medical practice and research and:

- Is familiar with methodology of carrying out scientific research;
- Is able to elaborate research design, detailed plan, process obtained results and make conclusions;
- Can apply achievements of biomedical sciences in practical activity;
- Can write a course paper/review based on critical analysis of scientific literaturein biomedicine;
- Knows ethic principles of conducting scientific research.

The graduate may implement the healthcare promotion measures, he/she may be involved in the public healthcare isuues, work effectively in the healthcare system:

- Conduct treatment which minimizes the risk of causing some damage to a patient;
- Implement measures preventing spreading of infection;
- Realize own health problems and evaluate own health status in connection with the professional duties;
- Participate in the healthcare promotion measures at the individual and the population levels;

The graduate is able to use ethical and legal principles in the medical practice;

- Is able to protect patient rights
- Is able to lead negotiations in the professional context and participate in the conflict resolution with any person regardless of their social, cultural, religious, or ethnic origin;
- Take into consideration the fairness, social and democratic values in communication with patients and colleagues;
- Is able to keep confidentiality;
- Is able to follow the principles of ethics and the skill of analysis during the process of treatment;
- Is able to obtain informed consent and make the appropriate entry;
- Is able to lead the medical work in the multicultural society.

20. The system of evaluation of student's knowledge

100-point system of eveluation of a student is applied at the University.

Final evaluation of the work performed by a student envisages interim evaluation and essessment of the final exam. Interim evaluation encompasses weekly assessment and evaluation of midterm exam, each of these elements has its own percentage share in the overall system of assessment.

A student can gain weekly assessment by active involvement at lectures and working groups, semianrs, practical trainings and laboratory trainings, performing homework, participating in the solution of a particular case, doing quizzes, preparing and presenting a course paper, preparing and presenting individual or group projects, etc. **A student can gain 40 points through weekly eveluation.**

- **Midterm exam in each subject is held once a semester and is assessed by 20 points.**
- Deriving from specificity of a particular course of study, the components of interim evaluation may be specified: content and share of the component is identified by the leading lecturer of the course of study.

- **A student can gain maximum 60 points through interim evaluation;**
- **The minumum threshold competence of interim evaluation is 25 points;**
- **Final exam is compulsary and its share in evaluation system equals to 40 points.**
- **The minumum threshold competence of interim evaluation is 20 points;**
- **The final examination is deemed passed if, with consideration of the points scored during interim evaluation and the final examination, the student scores minimum 51 points.**

Evaluation components and their share are provided in the syllabus of each course of study. Information on evaluation system and components is available to the students.

The forms and criteria of evaluation are the following:

Maximum positive evaluation – 100 points, minimum positive evalutaion – 51 points;

1. **Working at lectures and working groups** (active engagement at lectures, seminars, practical and laboratory trainings, doing homework, participation in solution of a particular case, doing written quizzes, preparation and presentation of course paper, preparation and presentation of individual and group projects, etc) – **30-35 points;**

   Presentation of a topic selected in advance, preparation and defending a course paper, individual or group project – **5-10 points;**
2. **Midterm exam – 20 points;**
3. **Final exam – 40 points;**
4. **Final evaluation- 100 points.**

During the process of study a student's knowledge is evaluated according to: participation in discussions at lectures and seminars, active engagement at seminars, performance of practical, laboratory and written assignments, oral presentation, answering questions, preparation of course paper, presentation of a paper at the conference, making specially designed tests and questionnaires.

Evaluation of engagement at lectures and within the working groups, practical and laboratory trainings may differ according to the specificity of the course and views and approaches of the lecturer delivering the course. The rule, form, scores and criterial of continuous evaluation of a student in the process of studies are defined by the professor of the course of study with consideration of specificity and objectives of training in agreement with the quality assuarence service. The rule, forms, methods and criteria of evaluation are referred to in the syllabus.

Rules, forms, criteria and evaluation points are envisaged in syllabuses of the courses of study.

Academic achievement in every discipline is evaluated by the evaluation system relevant to **European Credits Transfer System (ECTS) and "the rule of calculation of credits of higher education programs" approved by the order No3 of January 5, 2007 of the Minister of Sciences and Education of Georgia. Evaluation system envisages five positive and two negative evaluations:**

Evaluation system envisages:

Five types of the positive evaluation

a) (A) Excellent – 91 - 100 points;
b) (B) Very Good – 81 - 90 points;
c) (C) Good – 71 - 80 points;
d) (D) Satisfactory – 61 - 70 points;
e) (E) Sufficient – 51 - 60 points.

Two types of negative evaluation:

- **(FX) – Not passed** – maximum evaluation **41-50 points,** implies that a student needs to work harder to pass the exam and is allowed to take an additional exam after working independently.
  (F) - Failed – **40 and less points** of maximum evaluation meaning that work accomplished by the student is not sufficient and he/she must take a course anew.

Note: In case of not passing the exam (Fx) student has the right to re-take the exam in the same semester not earlier than 5 days after having available the results of the final examinations.

21. Grade Point Average (GPA)

Academic performance of a student is determined by points scored in respect of courses of study, as well as by **4-point equivalent of mentioned points – Grade Point Average (GPA).**

22. Academic Degree/Qualification to be awarded

The qualification to the graduate of the Dental Educational Programs shall be awarded according to the decree of the **Minister of Education and Science of Georgia of 10 December 2010 № 120 / N on the Approval of the National Qualification Framework**. The graduates of the Dental program shall be awarded the **qualification/academic degree of the Doctor of Dental Medicine (DDM)** and shall be given a state diploma certifying the completion of respective program, together with the diploma annex determined by the state.

Precondition for granting qualification/degree is scoring by a student of 300 ECTS credits.

23. Issuance of Diploma Certifying Qualification/Degree

With the purpose of determination of the category of diploma of graduates of Dental Educational Program **cumulative GPA** is calculated upon completion of the entire educational program and according to such calculation the University awards diplomas of the following degrees to the graduates:

GPA 3.5 and more – diploma with distinction: with high level of competency and skill of creative application of knowledge; positive evaluation in all the subjects and

GPA less than 3.5 – common diploma.

With the purpose of changing the category of diploma a student may exercise the right of reexamination of a subject, but not more than of three subjects.

24. Field of Employment

According to the applicable legislation, the graduates of one-step higher medical educational program (DDM) are not authorized to carry out independent medical activities.

In accordance with the **Law of Georgia on „Medical Activities“,** `the right to independent medical activities shall be exercised by a citizen or a stateless person of Georgia or a foreign country who graduated from an accredited higher medical institution of Goergia and has acquired a state certificate verifying his/her right to independent **“Medical activities“ in conformity with this law` (article 7).**

The field of employment for Doctors of Dental Medicine (DDM) are the following:

- Medical activity in the capacity of a junior doctor. The junior doctor performs the function of a doctor under the instructions and responsibility of the person authorized to carry out independent medical activities **(article 5, Law of Georgia on Medical Activities);**
- Pedagogic and scientific activities.

Map of Competences

Study Course	Knowledge and Understanding	Skill	Responsibility and Autonomy
Foreign language (Georgian) - 1	X	X	
Foreign language (Georgian) - 2	X	X	
Medical biology	X	X	
Medical bioethics	X	X	
Preventive medicine	X	X	
Biostatistics	X	X	
Laboratory medicine	X	X	
Management Public Health - Care and Health Care Informational Systems	X	X	
Bases of scientific research (Information bases, research methods)	X	X	
Scientific research skills (Preparation of an independent research plan)	X	X	
Medical psychology	X	X	

ScientificWriting Paper	X	X	
Human normal anatomy (locomotor and internal organs anatomy) for dentists	X	X	
General histology,with cytology	X	X	
Introduction of biochemistry	X	X	
Biophysics	X	X	
Human normal Physiology (General) for dentists	X	X	
Human normal anatomy (cardiovascular system and neuroanatomy) for dentists	X	X	
Special (organs systems) histology	X	X	
Emergency Medicine	X	X	
General biochemistry for dentists	X	X	
Basic Clinical Skills	X	X	
Human normal Physiology (organs systems) for dentists	X	X	
General microbiology for dentists	X	X	
Topographic anatomy and operational surgery of the head and neck	X	X	

Pathology (General Pathology, Local blood flow, Inflammation, Fever, Tissue growth Pathology)	X	X	
Special biochemistry	X	X	
Pathology (Tumor growth, metabolism, pathology of typical disorders, central hemodynamics, respiratory system pathology)	X	X	
General Pharmacology for dentists	X	X	
Immunology for dentists	X	X	
Special microbiology	X	X	
Pathology (digestive, urinary, endocrine and nervous systems pathology)	X	X	
Special Pharmacology	X	X	
Epidemiology for dentists	X	X	
Medical Radiology for dentists	X	X	
Introduction of Therapeutic Dentistry	X	X	
Prevention of dental dieases	X	X	
Phantom Operative Odontology	X	X	
Introduction of prosthodontic dentistry	X	X	
General Surgery for dentists	X	X	

Phantom Endodontics	X	X	
Oral Cavity Surgery	X	X	
Dental materials for prosthodontic dentistry	X	X	
Allergology for dentists	X	X	
Clinical Odontology	X	X	X
Inflammatory diseases of maxillo-facial area in adults)	X	X	X
Fixed dental constructions	X	X	
Preclinical periodontology	X	X	
Odontology of children and adolescents	X	X	
Clinical Surgery for dentists	X	X	
Internal medicine for dentists	X	X	X
Diagnostics of internal medicine	X	X	X
Maxillo-facial inflammatory diseases and oral cavity surgery of children and adolescence	X	X	
Infectious Diseases and Clinical Parasitology	X	X	
Clinical Endodontics	X	X	X
Salivary glands diseases and pathologies of temporo-mandibular Joints in adults	X	X	X

Treatment of partial edetulism with dental bridges	X	X	X
Endodontics of children and adolescents	X	X	
Maxillo-facial traumatology and Temporo-mandibular joint diseases in children and adolescents)	X	X	
Orthodontic dentistry (Developmental peculiarities of maxillo-dental system)	X	X	X
Clinical Periodontology	X	X	X
Traumatology and neural diseases of maxillo-facial area in adults	X	X	X
Treatment of partial edetulism with removable dentures	X	X	X
Congenital malformations of maxillo-facial area in children and adolescents lesions)	X	X	
Orthodontic dentistry (Anomalies of dentoalveolar system)	X	X	X
Otorhinolaryngology for dentists	X	X	
Dermatovenerology for dentists	X	X	
Diseases of the oral mucosa	X	X	
Tumors and tumor-like diseases of oral cavity and maxillo-facial area in adults	X	X	
Prosthesis of edentulous jaws	X	X	X
Diseases and Anomalies Periodontium and oral mucosal	X	X	

membrane in children and adolescents;			
Biomechanics and appliances used in orthodontic dentistry	X	X	
Reconstructive surgery of maxillo-facial area, Dental implantology	X	X	X
Reconstructive prosthodontics for traumatology of maxillo-facial area;	X	X	
Periodontal Surgery	X	X	X
Tumors of maxillo- facial area and oral cavity in children and adolescents	X	X	
Orthodontic dentistry (Congenital malformation, traumatic injuries and diseases of Temporo-Mandibular joint.)	X	X	
Therapeutic Dentistry; Children and adolescents Therapeutic Dentistry (Integrated Course)	X	X	X
Oral Surgery Children and adolescents oral surgery (Integrated Course)	X	X	X
Basics of philosophy	X	X	
History of the world civilizations	X	X	
Basics of psychology	X	X	

Polish language -1	X	X	
Polish language -2	X	X	
Hygiene	X	X	
History of Medicine	X	X	
Sociology	X	X	
Pediatrics for dentists	X	X	
Basics of physiotherapy	X	X	
Nutrientiology	X	X	