**ივანე ჯავახიშვილის სახელობის თბილისის სახელმწიფო უნივერსიტეტი**

**მედიცინის ფაკულტეტი**

`შეთანხმებულია~:

**One-cycle Educational program “Dentistry”**

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| --- | --- |
| **Program Title**  **(in Georgian and in English)** | Dentistry |
| **Awarded qualification** | Doctor of Dental Medicine (D.M.D) |
| **Program Capacity (credit distribution):** | 5 years (10 Semesters)  Program Capacity - 300 credits, including 11 credits from elective courses |
| **Language** | English |
| **Program Director/s and coorinator** | Vladimer Margvelashvili - Doctor of Medicine, Full Professor, Department of Dentistry, Ivane Javakhishvili Tbilisi State University |
| **Admission Criteria** | An individual with full general education or equivalent, who has a corresponding state-approved document (certificate) and has earned the right to study on the program based on the results of the Unified National Exams is enrolled at the one-step program "medicine". The list of the subjects to be passed is regulated by the order №178/n of the Minister of Education, Science, Culture and Sport of Georgia, dated by August 27, 2019. The competence limit is established by the faculty.  Admission to the program without passing the Unified National Exams is allowed by the order N. 224/n of the Minister of Education, Science, Culture and Sport of Georgia:  a) Foreign nationals and stateless persons who have received full general education or equivalent in a foreign country;  b) Citizens of Georgia who have received full general education or equivalent in a foreign country and have spent the last 2 years of full general education in a foreign country;  c) For foreign nationals (except students of the Joint Higher Education Program and exchange students) who are/were studying and have received credits/qualifications at a higher education institution recognized in accordance with the legislation of that country;  d) Citizens of Georgia (except students participating in the Joint Higher Education Program and exchange students) who have been/had been living and studying and have obtained credits/qualifications at a higher education institution in the foreign country, recognized in accordance with the legislation of that country.  In order to be able to study at the educational program for Medical Doctors in English language, a person, who has not passed the Unified National Exams has to prove proficiency in English at least B2 level and undergo a general interview in accordance to the order N90/n of the Minister of Education, Science, Culture and Sport of Georgia, dated by 2018. |
| **Aim of Educational Program** | **The aim of one step educational program of Doctor of Dental Medicine is as follows:**   * Providing the students with the knowledge, relevant to the international dental educational standards and developing appropriate skills; * Preparing highly qualified specialists, whose professional activities will enhance the quality of dental services, prevention of dental diseases, improve the general health of the mouth and body; * Enabling the graduate to plan and implement complex dental treatment and further monitoring of the patients. * Developing graduates' ability of making logical analysis of the observed, heard and manifested symptoms, in order to link them further into the single pathogenetic process. |
| **Learning Outcomes** | |
| **Knowledge and Understanding** | **The students will be able to:**   1. Describe/identify chemical, biochemical, molecular, microbiological and histological processes in normal and pathological conditions in the human body, particularly of the mouth(head and neck region). 2. Classify, describe, differentate and identify those somatic diseases, which are closely related to oral cavity diseases (stomatopathy); 3. Describe and review general research methods, including biostatistic and epidemiological; 4. Discuss, review and generalize health care and ethical aspects, list and formulate legal issues of patient's rights and medical practice; 5. Identify/diagnose and classify of oral cavity diseases and conditions; Describe and review methods of prevention, making diagnosis and treatment, determine the possibilities of preserving the results of treatment. 6. **describe** the main groups of therapeutic and preventive drugs, describe and discuss the mechanisms of actions and interactions; **describe** dental materials and the area of usage, 7. Describe the methods safety management of doctor and patient; 8. Obtain, sort and interprete the latest thematic literature, evidence based medicine (dentistry) data independently; 9. Describe the methods of managing urgent medical conditions |
| **Skills** | **The student will gain following skills:**   1. Selection, planning, analyzing and practicing methods of prevention, making diagnosis and treatment of oral diseases. Planning and organizing ensuring oral health; 2. Effective management of the team work; 3. Selecting, analyzing the methods of planning, implementation and evaluation of basic and alternative public health measures for ensuring oral health; 4. Planning, integrating and utilizing data synthesis, diagnostics and treatment methods in cases of complicated clinical situations and special need conditions based on the latest data; 5. Presenting, defending and agreing ideas and consempts, proposals, solutions, conclusions and recommendations in oral, in written or online in academic, professional circles, and with a patient or people accompaning the patient in native and English languages. 6. Reviewing, evaluating, planning scientific literature and research projects |
| **Responsibility and Autonomy** | **Students will be able to:**   1. Protect own ethical and legal norms in interpersonal relationships based on social, religious equality and democratic values; 2. The protection of patient's rights and requirements of the professional ethics; |
| **Teaching Methods** | Explanation method  Demonstration method  Case Study  Problem based learning (PBL)  Lecture  Brain Storming  Analysis (Differentiation: Norm, Pathology)  Team working  Oral interview  Discussion method  Literature processing method  Tests  Closed-ended question  Open Question / Theoretical Issue / Topic  Abstract  Presentation (increasing complexity, even in a small scale, research)  Work on dental phantoms  Role-playing games  Clinical Practice (under the supervision of a lecturer) |
| **Assessment System** | 1. Excellent –  91-100 points from total score; 2. Very good– 81-90 points from total score; 3. Good  – 71-80 points from total score;   (D)  Satisfactory  - 61-70 points from total score;  (E)  Sufficient – 51-60 points from total score;  Two types of negative assessment:  (FX) Insufficient– 41-50 points from total score, meaning that student failed, needs to work more for passing the exam and has been granted the right to retake the exam once;  (F) Failed –40 and less points from total score meaning that the work performed by the students is not enough and he/she has to take the course again.  In case of receiving FX points in the educational component of the program, the higher education institution has to appoint an additional exam not less than 5 days from the announcement of the results of final. |
| **Employment Fields** | One-year medical education program graduate – Doctor of Dental Medicine does not have the right of independent medical practice independently upon the legislation in force –.  Employment fields include practice – Junior Doctor (junior doctor – a position that may be occupied by a graduate with a diploma of a state-accredited higher medical institution. A person appointed to his position shall perform the duties of a doctor according to the instructions and under the responsibility of an independent medical practitioner (Law of Georgia on Medical Practice, Article 5));   * Practice – Junior Doctor * Pedagogical and scientific work * Working in theoretical medicine * Prerequisite for applying for the doctorate * Prerequisite for applying for the residence |
| **Tuition Fees for Georgian and Foreign Students** | 7000 $ |
| **Human and Material Resources Needed to Program Implement** | The academic and invited personnel involved in the implementation of the program (If required, appropriate material resources, such as laboratories, computer classes, etc.)) shall be specified. |
| **Additional Information**  **(If Necessary)** |  |

**Curriculum**[[1]](#footnote-1)

Faculty: Medicine

Institute/Department/ Chair/Direction: Dentistry

Title of the Educational Program:dentistry/ Dentistry

Educational Level: One step educational program

Program Capacity (Number of Credits): 300

Director/s and Coordinator of the Educational Program: Professor Vladimer margvelashvili

Date of Approval of the Educational Program by Academic Council, Resolution Number:

Effective Date of the Educational Program (Academic Year):

**Structure of the Program**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Type of educational courses/modules: Facultative / Obligatory/ Selective** | | | | | | | | | | | | | | | | | | | | |
| **N** | **Code** | **Title of the Course** | **ECTS** | **Student load per hour** | | | | | **Prerequisite for admission to the course** | **Term** | | | | | | | | | |  |
| **I** | **II** | **III** | **IV** | **V** | **VI** | **VII** | **VIII** | **IX** | **X** |
| **Lecture** | **Seminar** | **Practicum / Laboratory activities** |  |  |  |  |  |  |  |  |  |  |  |  |
| **1** |  | Body Systems I | **9** | **30** | **68** | **10** |  |  | - | **X** |  |  |  |  |  |  |  |  |  |  |
| **2** |  | Medical physics and biophysics | 3 | **12** | **18** | **6** |  |  | - | **X** |  |  |  |  |  |  |  |  |  |  |
| **3** |  | Information Technologies | 2 |  | **24** |  |  |  | - | **X** |  |  |  |  |  |  |  |  |  |  |
| **4** |  | Georgian Language I | 5 |  |  | **60** |  |  | - | **X** |  |  |  |  |  |  |  |  |  |  |
| **5** |  | General Biochemistry | 5 | **20** | **40** |  |  |  | - | **X** |  |  |  |  |  |  |  |  |  |  |
| **6** |  | Basics of genetics | 2 | **10** | **14** |  |  |  | - | **X** |  |  |  |  |  |  |  |  |  |  |
| **7** |  | Research skills 1 | 2 | **5** |  | **19** |  |  | - | **X** |  |  |  |  |  |  |  |  |  |  |
| **8** |  | Clinical skills and communication | **2** | **5** |  | **19** |  |  | **-** | **x** |  |  |  |  |  |  |  |  |  |  |
| **9** |  | Body Systems II | 15 | **46** | **28** | **44** |  |  | Body Systems I |  | **x** |  |  |  |  |  |  |  |  |  |
| **10** |  | Microbiology, Virology | 3 | **16** | **16** | **4** |  |  | **-** |  | **X** |  |  |  |  |  |  |  |  |  |
| **11** |  | basics of immunology | 3 | **12** | **24** |  |  |  | - |  | **X** |  |  |  |  |  |  |  |  |  |
| **12** |  | Introduction to Dentistry | 2 | **12** | **12** |  |  |  | **-** |  | **x** |  |  |  |  |  |  |  |  |  |
| **13** |  | Georgian Language II | 5 |  |  | **60** |  |  | Georgian Language I |  | **X** |  |  |  |  |  |  |  |  |  |
| **14** |  | Molecular biology | 2 | **10** | **14** |  |  |  | - |  | **x** |  |  |  |  |  |  |  |  |  |
| **15** |  | Health promotion | 2 | **3** | **21** |  |  |  | - |  |  | **x** |  |  |  |  |  |  |  |  |
| **16** |  | Pathology | 10 | 40 |  | 80 |  |  | Body Systems II |  |  | **x** |  |  |  |  |  |  |  |  |
| **17** |  | Therapeutic dentistry I | 4 | 8 |  | 40 |  |  | Body Systems II |  |  | **x** |  |  |  |  |  |  |  |  |
| **18** |  | Surgical dentistry I | 4 | 14 |  | 34 |  |  | Body Systems II |  |  | **x** |  |  |  |  |  |  |  |  |
| **19** |  | Prosthetic dentistry I | 4 | 10 |  | 30 |  |  | Body Systems II |  |  | **x** |  |  |  |  |  |  |  |  |
| **20** |  | Prevention of dental diseases I | 3 | 6 |  | 30 |  |  | Body Systems II |  |  | **x** |  |  |  |  |  |  |  |  |
| **21** |  | Dental material science | 3 | 12 | 24 |  |  |  | **-** |  |  |  | **x** |  |  |  |  |  |  |  |
| **22** |  | Clinical skills and first aid | 3 | 8 |  | 28 |  |  | Clinical skills and communication |  |  |  | **x** |  |  |  |  |  |  |  |
| **23** |  | Medical ethics | 2 | 3 | 21 |  |  |  | - |  |  |  | **x** |  |  |  |  |  |  |  |
| **24** |  | Environmental health | 3 | 11 |  | 25 |  |  | - |  |  |  | **x** |  |  |  |  |  |  |  |
| **25** |  | Therapeutic dentistry II | 4 | 14 |  | 34 |  |  | Therapeutic dentistry I |  |  |  | **x** |  |  |  |  |  |  |  |
| **26** |  | Surgical dentistry II | 4 | 14 |  | 34 |  |  | Surgical dentistry I |  |  |  | **x** |  |  |  |  |  |  |  |
| **27** |  | Prosthetic dentistry II | 4 | 10 |  | 30 |  |  | Prosthetic dentistry I |  |  |  | **x** |  |  |  |  |  |  |  |
| **28** |  | Prevention of dental disease II | 3 | 6 |  | 30 |  |  | Prevention of dental disease I |  |  |  | **x** |  |  |  |  |  |  |  |
| **29** |  | Reseach skills II | 2 | 4 |  | 20 |  |  | - |  |  |  | **x** |  |  |  |  |  |  |  |
| **30** |  | Internal diseases I | 3 | 6 | 24 |  |  |  | Body Systems II |  |  |  |  | **x** |  |  |  |  |  |  |
| **31** |  | General radiology | 2 | 6 |  | 14 |  |  | Body Systems II |  |  |  |  | **x** |  |  |  |  |  |  |
| **32** |  | Medical psychology and psychiatry | 3 | 9 | 21 |  |  |  | Body Systems II |  |  |  |  | **x** |  |  |  |  |  |  |
| **33** |  | Pharmacology | 4 | 18 | 30 |  |  |  | Body Systems II |  |  |  |  | **x** |  |  |  |  |  |  |
| **34** |  | Therapeutic dentistry III | 4 | 10 |  | 30 |  |  | Therapeutic dentistry II |  |  |  |  | **x** |  |  |  |  |  |  |
| **35** |  | Surgical dentistry III | 4 | 8 |  | 32 |  |  | Surgical dentistry II |  |  |  |  | **x** |  |  |  |  |  |  |
| **36** |  | Prosthetic dentistry III | 4 | 10 |  | 30 |  |  | Prosthetic dentistry II |  |  |  |  | **x** |  |  |  |  |  |  |
| **37** |  | Therapeutic dentistry of children and adolescents I | 4 | 8 |  | 32 |  |  |  |  |  |  |  | **x** |  |  |  |  |  |  |
| **38** |  | Epidemiology and biostatics | 3 | 12 | 24 |  |  |  | Microbiology, virology |  |  |  |  |  | **x** |  |  |  |  |  |
| **39** |  | Internal diseases II | 4 | 10 |  | 30 |  |  | Internal diseases I |  |  |  |  |  | **x** |  |  |  |  |  |
| **40** |  | Therapeutic dentistry IV | 4 | 12 |  | 28 |  |  | Therapeutic dentistry III |  |  |  |  |  | **x** |  |  |  |  |  |
| **41** |  | Surgical dentistry IV | 4 | 8 |  | 32 |  |  | Surgical dentistry III |  |  |  |  |  | **x** |  |  |  |  |  |
| **42** |  | Prosthetic dentistry IV | 4 | 12 |  | 28 |  |  | Prosthetic dentistry III |  |  |  |  |  | **x** |  |  |  |  |  |
| **43** |  | Therapeutic dentistry of children and adolescents II | 4 | 6 |  | 34 |  |  | Therapeutic dentistry of children and adolescents I |  |  |  |  |  | **x** |  |  |  |  |  |
| **44** |  | Radiology in dentistry | 2 | 8 |  | 12 |  |  | General radiology |  |  |  |  |  | **x** |  |  |  |  |  |
| **45** |  | Public Healthcare | 3 | 16 | 20 |  |  |  | - |  |  |  |  |  | **x** |  |  |  |  |  |
| **46** |  | Pediatrics | 2 | 8 |  | 12 |  |  | Internal diseases II, Pharmacology |  |  |  |  |  |  | **x** |  |  |  |  |
| **47** |  | Neurology | 2 | 4 | 1 | 15 |  |  | Body Systems II |  |  |  |  |  |  | **X** |  |  |  |  |
| **48** |  | Ophthalmology | 2 | 5 |  | 15 |  |  | Body Systems II, pharmacology |  |  |  |  |  |  | **X** |  |  |  |  |
| **49** |  | Otorhinolaryngology | 2 | 5 |  | 15 |  |  | Body Systems II |  |  |  |  |  |  | **X** |  |  |  |  |
| **50** |  | Oncology | 2 | 7 | 13 |  |  |  | Radiology in dentistry, pharmacology |  |  |  |  |  |  | **X** |  |  |  |  |
| **51** |  | Therapeutic dentistry V | 4 | 12 |  | 28 |  |  | Therapeutic dentistry IV |  |  |  |  |  |  | **X** |  |  |  |  |
| **52** |  | Prosthetic dentistry V | 4 | 12 |  | 28 |  |  | Prosthetic dentistry IV |  |  |  |  |  |  | **X** |  |  |  |  |
| **53** |  | Therapeutic dentistry of children and adolescents dentistry III | 4 | 6 |  | 34 |  |  | Therapeutic dentistry of children and adolescents II |  |  |  |  |  |  | **X** |  |  |  |  |
| **54** |  | Orthodontics I | 4 | 6 |  | 34 |  |  | Therapeutic dentistry of children and adolescents II |  |  |  |  |  |  | **X** |  |  |  |  |
| **55** |  | Surgical dentistry V | 4 | 6 |  | 34 |  |  | Surgical dentistry IV |  |  |  |  |  |  | **x** |  |  |  |  |
| **56** |  | Geriatric dentistry | 3 | 10 |  | 20 |  |  | - |  |  |  |  |  |  |  | **X** |  |  |  |
| **57** |  | Special needs dentistry | 3 | 10 |  | 20 |  |  | Therapeutic dentistry II |  |  |  |  |  |  |  | **X** |  |  |  |
| **58** |  | Infectious diseases | 2 | 6 | 14 |  |  |  | Internal diseases I, Microbiology, virology; pharmacology |  |  |  |  |  |  |  | **X** |  |  |  |
| **59** |  | Therapeutic dentistry VI | 4 | 12 |  | 28 |  |  | Therapeutic dentistry V |  |  |  |  |  |  |  | **X** |  |  |  |
| **60** |  | Surgical dentistry VI | 3 | 7 |  | 23 |  |  | Surgical dentistry V |  |  |  |  |  |  |  | **X** |  |  |  |
| **61** |  | Prosthetic dentistry VI | 4 | 12 |  | 28 |  |  | Prosthetic dentistry V |  |  |  |  |  |  |  | **X** |  |  |  |
| **62** |  | Therapeutic dentistry of children and adolescents IV | 3 | 4 |  | 26 |  |  | Therapeutic dentistry of children and adolescents III |  |  |  |  |  |  |  | **X** |  |  |  |
| **63** |  | Orthodontics II | 4 | **6** |  | **34** |  |  | Orthodontics I |  |  |  |  |  |  |  | **X** |  |  |  |
| **64** |  | Pediatric dental surgery I | 2 | **6** |  | **14** |  |  | Therapeutic dentistry of children and adolescents III |  |  |  |  |  |  |  | **X** |  |  |  |
| **65** |  | Research skills III | 2 | **3** |  | **21** |  |  |  |  |  |  |  |  |  |  | **X** |  |  |  |
| **66** |  | Surgery | 4 | **10** |  | **30** |  |  | Body Systems II |  |  |  |  |  |  |  |  | **X** |  |  |
| **67** |  | Dermatology | 2 | **6** |  | **14** |  |  | Body Systems II |  |  |  |  |  |  |  |  | **X** |  |  |
| **68** |  | Anesthesiology and reanimatology | 3 | 9 |  | 21 |  |  | Body Systems II |  |  |  |  |  |  |  |  | **X** |  |  |
| **69** |  | Therapeutic dentistry VII | 4 | 12 |  | 28 |  |  | Therapeutic dentistry VI |  |  |  |  |  |  |  |  | **X** |  |  |
| **70** |  | Surgical dentistry VII | 4 | 10 |  | 30 |  |  | Surgical dentistry VI |  |  |  |  |  |  |  |  | **X** |  |  |
| **71** |  | Prosthetic dentistry VII | 4 | 12 |  | 28 |  |  | Prosthetic dentistry VI |  |  |  |  |  |  |  |  | **X** |  |  |
| **72** |  | Therapeutic dentistry of children and adolescents V | 3 | 4 |  | 26 |  |  | Therapeutic dentistry of children and adolescents IV |  |  |  |  |  |  |  |  | **X** |  |  |
| **73** |  | Orthodontics III | 4 | 6 |  | 34 |  |  | Orthodontics II |  |  |  |  |  |  |  |  | **X** |  |  |
| **74** |  | Pediatric dental surgery II | 2 | 6 |  | 14 |  |  | Pediatric dental surgery I |  |  |  |  |  |  |  |  | **x** |  |  |
| **75** |  | Allergy and immunology | 3 | 4 |  | 26 |  |  | Internal diseases II, Microbiology, virology, pharmacology; Basics of immunology |  |  |  |  |  |  |  |  |  | **X** |  |
| **76** |  | Therapeutic dentistry VIII | 5 | 5 |  | 45 |  |  | Therapeutic dentistry VII |  |  |  |  |  |  |  |  |  | **X** |  |
| **77** |  | Surgical dentistry VIII | 4 | 10 |  | 30 |  |  | Surgical dentistry VII |  |  |  |  |  |  |  |  |  | **X** |  |
| **78** |  | Prosthetic dentistry VIII | 4 | 12 |  | 28 |  |  | Prosthetic dentistry VII |  |  |  |  |  |  |  |  |  | **X** |  |
| **79** |  | Therapeutic dentistry of children and adolescents VI | 4 | 8 |  | 32 |  |  | Therapeutic dentistry of children and adolescents V |  |  |  |  |  |  |  |  |  | **X** |  |
| **80** |  | Orthodontics IV | 4 | 6 |  | 34 |  |  | Orthodontics III |  |  |  |  |  |  |  |  |  | **x** |  |
| **81** |  | Pediatric dental surgery III | 2 | 6 |  | 14 |  |  | Pediatric dental surgery II |  |  |  |  |  |  |  |  |  | **x** |  |
| **82** |  | Research skills IV | 2 | 4 |  | 20 |  |  | **-** |  |  |  |  |  |  |  |  |  | **X** |  |
| **83** |  | Management of type 2 diabetesw mellitus | 3 | 10 | 26 |  |  |  | **-** |  |  | **x** |  |  |  |  |  |  |  |  |
| **84** |  | clinical genetics in primary physicians practice | 3 | 10 | 26 |  |  |  | **-** |  |  | **x** |  |  |  |  |  |  |  |  |
| **85** |  | Rational prescribing | 2 | 4 | 20 |  |  |  | **-** |  |  |  | **x** |  |  |  |  |  |  |  |
| **86** |  | Medical terminology | 2 | 4 | 20 |  |  |  | **-** |  |  |  | **x** |  |  |  |  |  |  |  |
| **87** |  | Essentials and principles of healthcare quality (introduction course) | 2 | 4 | 20 |  |  |  | **-** |  |  |  |  | **x** |  |  |  |  |  |  |
| **88** |  | Medical Law | 2 | 4 | 20 |  |  |  | **-** |  |  |  |  | **x** |  |  |  |  |  |  |
| **89** |  | Sports nutrition and legislation | 2 | 4 | 20 |  |  |  | **-** |  |  |  |  |  | **x** |  |  |  |  |  |
| **90** |  | Medical nanotechnologies | 2 | 4 | 20 |  |  |  | **-** |  |  |  |  |  | **x** |  |  |  |  |  |
| **91** |  | Injury Prevention | 2 | 4 | 20 |  |  |  | **-** |  |  |  |  |  |  |  |  |  | **x** |  |
| **92** |  | Epidemiological Research Methods | 2 | 4 | 20 |  |  |  | - |  |  |  |  |  |  |  |  |  | **x** |  |

1. Curriculum may be submitted in accordance to I, II or III options of the program structure, considering the peculiarities of the educational program and/or the level of education [↑](#footnote-ref-1)