This form is used in preparation of the NVU program. Entries on this form should be transferred to the University Board for approval. Fields marked blue indicate NVU requested information and should not be filled out (unless otherwise provided), whereas yellow fields are optional.

1. General Information

Title:	**Dental Medicine**						
Qualification (according to major):	**Doctor of Dental Medicine (DMD)**						
Number of Credits:	**300**		QF Level (VI, VII or VIII)		VII		
Available Concentrations:	N/A						
Responsible School(s):	**School of Medicine**						
Program Leader(s):	Natalia Tsereteli Khatuna Rtskhiladze						
Language of Instruction:	**English**						
Enrolment Requirement provided by the Law on HE	**School Leaving Certificate or Equivalent, National Unified Entry Exams / MoESCS special Regulation**		Other:		**In case of MoESCS special Regulation:** **Application** **Proof of Proficiency in English at B2 Level.** **MCAT (Chemical and Physical Foundations of Biological Systems) or a Biology & Chemistry knowledge certification.**		
Minor qualification:	N	Available for online enrolment	N	Available for exchange students:	Y	Work experience/ placement:	N
Available for Non-degree students:	Y	Prior Registration Requirement	Y	Other	N	Other	N
Estimated student numbers:	**48 per intake**		Program replaces: (if any)		**N/A**		
Date of possible implementation:	**Fall 2019**		Date of proposal:		**03/09/2019**		

2. Aims and Learning Outcomes

Objectives:	The objectives of the program are: ✔ to develop caring, competent, confident specialist for dental, oral and maxillofacial medicine through outcome- based teaching approach

	ensuring high quality of healthcare and biomedical research in academic and clinical settings; ✔ to provide medical training, predominantly in a practical environment (where acquisition and organization of knowledge match with practical application of gained competencies), based on ethical values, respect for individual autonomy and on the premise of rational and efficient interference; ✔ to support students' development of understanding of the essence of Dental Medicine, equip them with skills necessary for working in diverse health care settings, be competent and competitive in a multicultural environment; ✔ to raise professionals with high employment chances to be able to make a career in diverse health care settings and multicultural environment.
Generic Learning Outcomes:	Upon completion of the program, students will be able to: **Ability of Analysis and Synthesis** ✔ critically evaluate complicated, uncertain, incomplete and contradictory data; ✔ analyze data independently, present the results of the analysis in an understandable manner and further use them; **Information Management** ✔ collect data from different information sources; **Problem Solving/Decision Making** ✔ independently define and raise complex problems and find ways for their solution; ✔ provide analysis of expected results and make a final decision; **Team-Working Ability** ✔ work in team both as a team-member and a leader; ✔ clearly formulate tasks, discuss them with team-members, coordinate their activities and adequately assess potential of the team, management of conflict and force-majeure situations; **Ability to Communicate Verbally, Amongst them in Foreign Language** ✔ conduct negotiations in professional context and participate in resolving conflict situation; ✔ present arguments, decisions, research findings to both professional and lay audiences using principles of academic integrity;

	Ability to Stay Up to Date with Learning ✔ use the full spectrum of education-information resources; manage own learning process; ✔ evaluate own knowledge and skills; **Ability to Work Independently** ✔ manage time properly; define priorities, meet deadlines and work on agreed issues.
Subject Specific Learning Outcomes:	Upon completion of the program, students will be able to: **Knowledge** ✔ demonstrate deep and systemic knowledge of the field of dentistry, including new breakthroughs and achievements; ✔ demonstrate knowledge of health care, social and behavioural science relevant to dental healthcare provider and apply ethical standards of the profession; ✔ utilize principles of evidence based dental medicine; ✔ classify the main groups of medicines and explain the principles of their prescription; ✔ utilize main profession related techniques and procedures; **Skills** ✔ carry out a consultation with a patient; ✔ provide immediate care of medical emergencies, including First Aid; ✔ apply scientific principles, method and knowledge to dental practice and research; ✔ based on acquired knowledge assess clinical presentations, order investigations, make differential diagnoses, and negotiate a management plan; ✔ elaborate individual recommendations for prevention of dental diseases; ✔ properly select the methods of diagnosis, differential diagnosis and treatment of dental diseases; ✔ communicate effectively in dental practice verbally and in written form; ✔ apply theoretical knowledge of dental science in practical settings;

	Responsibility and Autonomy ✔ continually renew their knowledge in order to follow international standards and keep track of breakthroughs for their professional development; ✔ apply ethical principles in health care practice; respect patients' rights; ✔ promote health, engage with population health issues and work effectively in a health care system.

3. Modularized Components referring to Learning Outcomes

Profile composition elements are as follows: General Competence (GC), Fundamentals of Medicine (FM) and Dental Medicine (DM).

From GC component 3 designated core courses (18 credits), and from FM component all core courses (36 credits) should be taken and additionally elective courses from GC and/or FM components to acquire overall 12 elective credits.

From DM component all core courses should be taken to acquire 214 credits and additional elective 20 credits – 234 credits overall.

3.1 General Competence (GC) C 12

Reference Code (Program-Module-Component indication)	Modules & Components:	status (core/elective)	ECTS (semester suggestion for student profile)	Knowledge and Understanding	Applying Knowledge	Making Judgments	Communication Skills	Learning Skills	Values
GC 0101	Critical Thinking and Logic	C	6 (I)	√	√	√	√	√	
GC 0102	Writing and Reporting for Success	C	6 (I)	√	√	√	√		√
GC 0103	Research Methods	C	6 (II)		√		√	√	√
GC 0104	Communication and Negotiation	E	6 (VI)	√	√	√	√	√	√
GC 0105	Presenting for Success	E	6 (VI))	√	√		√	√	
GC 0201	Introduction to Philosophy	E	6 (I)	√	√	√	√		√
GC 0202	History of World Civilization	E	6 (I)	√	√	√	√		
GC 0203	Applied Economics	E	6 (VI)	√	√	√	√		
GC 0204	Introduction to Law	E	6 (VI)	√	√	√	√	√	√
GC 0205	Introduction to Sociology and Social Psychology	E	6 (I/VII)	√	√	√	√		

GC 0206	Calculus	E	6 (I/VI)I)	√	√		√	√	
GC 0207	Introduction to Statistics	E	6 (I/VI))	√	√	√	√	√	

3.2 Fundamentals of Medicine (FM)

Reference Code (Program-Module-Component indication)	Modules & Components:	status (core/elective)	ECTS (semester suggestion for student profile)	Knowledge and Understanding	Applying Knowledge	Making Judgments	Communication Skills	Learning Skills	Values
FM 1001	Fundamentals of medicine I (Anatomy, Histology, Imaging, Physiology)	C	8 (I)	√	√	√	√	√	
FM 1002	Fundamentals of medicine II (Biochemistry and Molecular Biology, Genetics)	C	8 (II)	√	√	√	√	√	
FM 1003	Social and Behavioural Sciences	C	4 (II)	√	√	√	√	√	√
FM 1004	Human Diseases	C	10 (IV)	√	√	√	√	√	√
MD2081	Medical law and Ethics	C	6 (V)	√	√	√	√	√	√
MD5021	Clinical Radiobiology and Radiation Protection	E	4 (II-VII)	√	√	√	√	√	√
MD5023	Primary Care	E	6 (I-VII)	√	√	√	√	√	√
MD5036	Medicine and the Power of Ideas	E	6 (I-VIII)	√	√	√	√	√	√
MD5024	Inpatient Care	E	4 (III)	√	√	√	√	√	√
MD5027	Health Economics	E	6 (I-VIII)	√	√	√	√	√	
MD5028	Managing Information in Healthcare	E	4 (III)	√	√	√		√	
MD5029	Strategic Marketing for Healthcare Organizations	E	4 (III)	√	√	√		√	√
MD5030	Managing and Improving Quality	E	4 (III)	√	√	√		√	

MD5031	Development Medicine	E	4 (III)	√	√	√	√	√	√

3.3 Dental Medicine/ Integrated Oral Health

Reference Code (Program-Module-Component indication)	Modules & Components:	status (core/elective)	ECTS (semester suggestion for student profile)	Knowledge and Understanding	Applying Knowledge	Making Judgments	Communication Skills	Learning Skills	Values
DMD	Introduction to Dentistry	C	4 (I)	√	√	√	√	√	√

001									
DMD 002	Oral Structure and Biology (embryology, microscopic and macroscopic structure and function, Craniofacial development and Genetics)	C	6 (II)	√	√	√	√	√	
DMD 003	Biomedical Sciences (Medical Microbiology and Immunology for Dentistry)	C	6 (II)	√	√	√	√	√	
DMD 004	General and Oral Pathology	C	6(III)	√	√	√	√	√	
DMD 005	Pharmacology and Therapeutics for Dentistry - Dental Anesthesia & Sedation	C	6 (III)	√	√	√	√	√	√
DMD 006	Community Dentistry and Oral Epidemiology	C	4 (III)	√	√	√	√	√	√
DMD 007	Dental Skills	C	4 (III)	√	√	√	√	√	√
DMD 008	Cariology	C	6 (III)	√	√	√	√	√	√
DMD 009	Oral and Maxillofacial Radiology	C	4 (IV)	√	√	√	√	√	√
DMD 010	Oral Diagnosis and Treatment Planning	C	6 (IV)	√	√	√	√	√	√
DMD 011	Pain Management in Dentistry	C	4 (IV)	√	√	√	√	√	√
DMD 012	Conservative and Minimum Intervention Dentistry	C	6 (IV)	√	√	√	√	√	√
DMD 013	Endodontics I	C	8 (V)	√	√	√	√	√	√
DMD 014	Prosthodontics I	C	4 (V)	√	√	√	√	√	√
DMD 01	Periodontology I	C	6 (V)	√	√	√	√	√	√

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DMD 016	Oral Surgery I	C	6 (V)	√	√	√	√	√	√
DMD 017	Paediatric Dentistry I	C	8 (VI)	√	√	√	√	√	√
DMD 018	Orthodontics I	C	6 (VI)	√	√	√	√	√	√
DMD 019	Comprehensive Care in Dentistry	C	6 (VI)	√	√	√	√	√	√
DMD 020	Endodontics II	C	6 (VII)	√	√	√	√	√	√
DMD 021	Prosthodontics II	C	6 (VII)	√	√	√	√	√	√
DMD 022	Oral Surgery II	C	6 (VII)	√	√	√	√	√	√
DMD 023	Periodontology II	C	6 (VII)	√	√	√	√	√	√
DMD 024	Urgent Dental Care and Emergency	C	6 (VIII)	√	√	√	√	√	√
DMD 025	Paediatric Dentistry II	C	6 (VIII)	√	√	√	√	√	√
DMD 026	Orthodontics II	C	6 (VIII)	√	√	√	√	√	√
DMD 027	General Dentistry Rotation	C	6 (VIII)	√	√	√	√	√	√
DMD 028	Geriatric Dentistry	C	6 (IX)	√	√	√	√	√	√
DMD 029	Comprehensive Care Rotation	C	8 (IX)	√	√	√	√	√	

DMD 030	Clinical Removable Prosthodontics	C	6 (IX)	√	√	√	√	√	√
DMD 031	Special Needs Dentistry	C	4 (IX)	√	√	√	√	√	√
DMD 032	Implantology	C	6 (IX)	√	√	√	√	√	√
DMD 033	General Medicine and Dental Correlations	C	6 (X)	√	√	√	√	√	√
DMD 034	Practicum in Community Health Settings	C	6 (X)	√	√	√	√	√	√
DMD 035	Clinical Dentistry Rotation	C	8 (X)	√	√	√	√	√	√
DMD 036	Clinical Capstone Project	C	6 (X)	√	√	√	√	√	√
DMD 037	Ethics and Leadership in Dentistry	C	4 (X)	√	√	√	√	√	√
DMD 038	Dental Practice Management	E	4 (VI)	√	√	√	√	√	√
DMD 039	Dental Treatment Planning and Patient Management	E	6 (VI-VIII)	√	√	√	√	√	√
DMD 040	Advanced Dental Materials and Technologies	E	4 (VI)	√	√	√	√	√	√
DMD 041	Dental Hygiene Practice	E	6 (VI-VIII)	√	√	√	√	√	√
DMD 042	Senior Comprehensive Case Portfolio Series	E	6 (VIII)	√	√	√	√	√	√

Other or Detailed:

Please indicate which skills will be developed most within the program. Please choose a minimum of 5 (Maximum of 10) from the list below.

Analytical Skills	√	Leadership	
Commercial Awareness		Planning and Organisation	
Confidence		Professionalism	√
Creative Problem Solving		Research Skills	
Critical Thinking	√	Self Awareness	
Ethical Awareness	√	Social and Cultural Sensitivity	√
Flexibility		Team Working	√
Independent Working	√	Time Management	√
Initiative		Interpersonal skills	√
Capacity to learn	√	Teaching ability	

4. Methods of Achieving Learning Outcomes and Assessment:

Rationale between employed methods and achievement of learning outcomes:

Employed teaching and assessment methodologies enable the acquisition and organization of knowledge match with practical application of gained competencies. It is based on the mixture of interactive teaching (including class discussions) and promotion of independent personal and group learning. The combination of theoretical components, problem solving and practical experience, aims at the development of knowledge, skills and autonomy and responsibility needed for successful participation in prevention of dental diseases, dental care process and dental rehabilitation in line with the requirements of complex and constantly changing labour market.

The primacy of student opportunities for one's own profile formation is achieved by the wide range of General Competence courses and the methodology applied therein.

For each subject selected assessment methods provide the most useful and relevant information for the objectives and learning outcomes that the program identified. Principles of outcome-based education imply that teaching, learning and assessment are conducted on the basis of pre-defined competencies of graduates in accordance to the "top-bottom" principle.

The DMD curriculum is comprised of **five year program referring to knowledge, skills, and autonomy and responsibility**

- ✔ The Curriculum First Year (60 ECTS) is comprised of the widely integrated core modules of Human Sciences (Anatomy, Histology, Imaging, Biomechanics, Physiology) and Biomedical Sciences (Medical Microbiology and Immunology for Dentistry) as well as course with early clinical engagement (Dental Assisting Course), which are accompanied by teaching core values of dentistry, clinical skills and research methods.
- ✔ The Curriculum Second Year (60 ECTS) is comprised of General and Oral Pathology, Pharmacology and Therapeutics for Dentistry (Dental Anesthesia Sedation), Community Dentistry and Oral Epidemiology/ Dental Public Health with bridging courses as Human Diseases, Oral and Maxillofacial Radiology.
- ✔ The Curriculum Third Year (60 ECTS) is comprised as a preparing mode for the clinical rotations actively engaging students to the simulation lab and applying role play model. The courses like Oral Surgery I, Periodontology I, Endodontics I, Prosthodontics I, Medical law and Ethics, Pediatric Dentistry I, Orthodontics I, Clinical Skills/Comprehensive Care encompass all the necessary requirements for the more advanced knowledge and skills that are essential for next courses.
- ✔ The Curriculum Fourth Year (60 ECTS) builds on previously acquired competences and enhanced with clinical rotation courses presenting students to clinical work and active communication with patients. Thus, the final and highest level of learning outcomes are met through hands-on practice applying gained knowledge, skills and autonomy and responsibility independent of discipline specific understanding. Didactic courses in the clinical sciences continue throughout the fourth year along with clinical activities as a dental assistant in the management of different dental issues. Students also have an opportunity to choose elective courses of interest to them.
- ✔ The Curriculum Fifth Year (60 ECTS) courses highlight the importance of patient care. Students have opportunities to work as members of a health care team through clinical rotations in different outpatient and inpatient facilities. Fifth-year students also have an opportunity to participate in Community Based Dental Assistance Projects in order to serve to society on national and international level. The year ends with a capstone presentation, which allows students to demonstrate ability to provide comprehensive care to a patient as they present their case to faculty members.

Program Learning Outcomes are best achieved through:

- ✔ interactive lectures, working group sessions, tutorials
- ✔ practical and laboratory classes
- ✔ problem-based learning
- ✔ case-based learning
- ✔ team-based learning
- ✔ role-plays
- ✔ individual-, peer- and group coaching
- ✔ e-, simulation- and 3D-based learning
- ✔ early-stage involvement in research, and application of diverse assessment methodologies combining e.g. MCQ, Case Assessment, Open Book, Concept Map, Portfolio, Practical Spot and Objectively Structured Clinical Examination (OSCE).

Grading System:

Number of points	Mark/grade (short description)	Average performance percentage ratio of successful students (may be used for monitoring assessment adequacy)
91-100	A (excellent)	the best 10 %
81-90	B (very good)	exceeding average 20 %
71-80	C (good)	average 30 %
61-70	D (satisfactory)	close to average 20%
51-60	E (sufficient)	the worst passing 10%
41-50	FX (resit in the same semester)	
0-40	F (Fail)	

5. Resources

Resource needs essential for program delivery:

Name:	Description:
Dental Simulation Lab	The lab is located in Life Quality Enhancement Center
Dental Clinic	Access shall be made available for students in New Vision University Dental Clinic
Literature	Library resources (including electronic literature) are available