

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
STATE INSTITUTION OF HIGH EDUCATION  
«Uzhhorod National University»**

**Approved  
Academic Council  
State Institution of High Education  
«Uzhhorod National University»  
Protocol № 4 30.06.2020  
Head of Academic Council  
Rector *V. Smolanka* V. Smolanka**



**EDUCATIONALLY - PROFESSIONAL PROGRAM  
«Dentistry»  
the second (master's) level of higher education  
Programme Subject Area: 221 Dentistry  
Main field of study: 22 Health  
Professional Qualification: Dental Practitioner**

## FOREMAN

Educational program of Specialty 221 Dentistry was developed by a working group consisting of:

head of the working group - dean of the Dental Faculty, MD, Prof. Kostenko E.Ya.;

Vice Dean of the Dental Faculty, PhD Horzov L.F.

Head of the Department of Pediatric Dentistry, PhD, Assoc. Melnyk V.S.;

Head of the Department of Orthopedic Dentistry, PhD, Assoc. Kostenko S.B.;

Head of the Department of Surgical Dentistry, SHLH and Oncostomatology, PhD, Assoc. Brekhlichuk P.P.;

Head of the Department of Therapeutic Dentistry, PhD, Assoc. Dobrovolska M.K.;

The educational program "Dentistry" is developed according with the standard of higher education in the specialty 221 Dentistry, approved by the order of the Ministry of Education and Science of Ukraine from 24.06.2019 № 879.

## 1. Profile of educational program in specialty 221 "Dentistry"

<b>1 – General information</b>	
<b>Full name of higher educational institution and structural unit</b>	State higher educational institution "Uzhhorod National University"
<b>Degree of higher education and name of qualification in the original language</b>	The degree of education – Master qualification educational - Master of Dentistry Qualification professional - Dental Practitioner
<b>Official name of the educational program</b>	Dentistry
<b>Diploma and the amount of educational program</b>	Master's degree, single, 300 credits ECTS, term of study 4 years 10 months
<b>Certificate of accreditation</b>	Certificate of accreditation HD № 0791825
<b>Cycle/level</b>	HPK of Ukraine-8 level, FQ-EHEA-second cycle, EQF-LLL-8 level
<b>Prerequisites</b>	Admission conditions are determined by the Admission Rules to the State University "Uzhhorod National University"
<b>Languages of studying</b>	Ukrainian, English
<b>Term of educational program</b>	Permanently, until the replacement of the new one
<b>Internet address of permanent placement of the description of the educational program</b>	<a href="https://www.uzhnu.edu.ua/uk/infocentre/15068">https://www.uzhnu.edu.ua/uk/infocentre/15068</a>

### 2 – The purpose of the educational program

To provide academic training in fundamental and clinicalbiomedical sciences and preparation of graduates for the professional activities of a dentist by acquiring general and special competencies, the scope of which is at least described by certain lists of syndromes and symptoms of diseases, emergency conditions, physiological conditions and diseases requiring special patient management tactics; laboratory and instrumental studies,medical manipulations; issues of labor, forensic and military expertise.

### 3 – Characteristics of the educational program

<b>Subject area(field of knowledge, specialty, specialization )</b>	Field of Knowledge - Health Specialty 221 "Dentistry"
<b>Orientation educational program</b>	Application program with professional orientation on theory and practice of dentistry
<b>The main focus of the educational program and specializations</b>	General higher education in the fieldof knowledge "Healthcare", specialty "Dentistry" Keywords:healthcare, medicine, dentistry, dentist, higher education.
<b>Featuresof the program</b>	Implemented in small groups in a combination of practical and theoretical training. The program is also taught in English.

#### 4 – The suitability of graduates for employment and further education

<b>Employment suitability</b>	<p>The specialist is prepared to work according to the CVD DK 009:2010:  Section Q. Health and SocialCare  Unit 86. Health  Group 86.2 Medicine and Dental Practice Class  86.23 Dental practice  After training at internship, a resident is assigned a qualification – a dentist who is able to perform the professional work specified in DK 003:2010 and can hold the appropriate medical position:  2222.2 Dentist  Upon completion of internship (residency) and qualification – dentist specialists can undergo specialization and perform the appropriate professional work of a dentist of a certain speciality, which is indicated in the current National Classifier of Ukraine "Classifier of Professions", hold the appropriate medical position education</p>
<b>Further</b>	<p>After graduation from the educational and professional program of the specialty "Dentistry", a specialist is able to perform professional work:  intern (code KP -3229)  trainee doctor (code KP - 3221)  and must enter the programs of postgraduate education (internship, residency), where training is carried out according to educational programs for the training of a dentist.  After internship, residency in the specialty "Dentistry" specialist has the right to:</p> <ul style="list-style-type: none"> <li>- undergo specialization</li> <li>- continue postgraduate studies on the program of obtaining a Doctor of Philosophy degree;</li> <li>- to acquire another specialty, which makes it possible to hold the appropriate medical position, and perform appropriate professional work</li> </ul>

#### 5 – Teaching and evaluation

<b>Teaching and teaching</b>	<p>Lectures, seminars, practical classes in small groups, including clinical bases, practice, consultations, consultations, with teachers. Student-centered training, self-study, problem-oriented learning, training through nursing and medical practice.</p>
<b>Evaluation</b>	<p>The current assessment of the level of assimilation of the topic is carried out at each practical lesson. The rating is formed on the basis of current estimates and results of modular control works. The final assessment for the discipline can be equal to the rating or be established on the basis of the test or exam. The presence of a student 100 or more hours of unworked practical and laboratory classes is a failure to fulfill an individual curriculum and is the basis for deduction. At the end of the third year of study, students take the state integrated test exam KROK-1, which assesses the level of assimilation of fundamental medical disciplines and English in a professional direction. Certification of graduates includes the state standardized test exam KROK-2 and</p>

	complex practical-oriented exam.
<b>6 – Software competencies</b>	
<b>Integral competence</b>	The ability to solve « complex problems and problems in health care and learning "Continuous or longitudinal" in professional activity or in the process of training, which involves research and / or implementation innovations and is characterized by uncertainty of conditions and requirements
<b>General Competencies(CC)</b>	<p>ZK 1. Ability to abstract thinking, analysis and synthesis.</p> <p>ZK 2. Ability to learn and master modern knowledge.</p> <p>ZK 3. Ability to apply knowledge in practical situations.</p> <p>ZK 4. Knowledge and understanding of the subject area and understanding of professional activity.</p> <p>ZK 5. Ability to adapt and act in a new situation.</p> <p>ZK 6. Ability to make informed decisions</p> <p>ZK 7. Ability to work as a team.</p> <p>ZK 8. Interpersonal interaction skills.</p> <p>ZK 9. The ability to communicate in the state language both orally and in writing.</p> <p>ZK 10. Ability to communicate in a foreign language.</p> <p>ZK 11. Skills of using information and communication technologies.</p> <p>ZK 12. Certainty and perseverance regarding the tasks and responsibilities.</p> <p>ZK 13. Ability to act socially responsibly and consciously.</p> <p>ZK 14. Striving for the preservation of the environment.</p> <p>ZK 15. Ability to act on the basis of ethical considerations (motives).</p>
<b>Professional competencies(FC)</b>	<p>FC 1. Collection of medical information about the patient's condition</p> <p>FC 2. Evaluation of laboratory and instrumental research results</p> <p>FC 3. Establishing a clinical diagnosis of dental disease</p> <p>FC 4. Diagnosis of emergency conditions</p> <p>FC 5. Planning and implementation of dental disease prevention measures</p> <p>FC 6. Determination of the nature and principles of treatment of dental diseases</p> <p>FC 7. Determination of the necessary mode of work and rest, diet in the treatment of dental diseases</p> <p>FC 8. Determination of tactics for conducting a dental patient in somatic pathology</p> <p>FC 9. Performing medical and dental manipulations</p> <p>FC 10. Treatment of major dental diseases</p> <p>FC 11. Organization of medical and evacuation measures</p> <p>FC 12. Definition of tactics and emergency medical care</p> <p>FC 13. Organization and conduct of dental dispensary of persons subject to dispensary supervision</p> <p>FC 14. Assessment of environmental impact on public health (individual, family, population)</p> <p>FC 15. Maintenance of medical documentation</p> <p>FC 16. Processing of state, social and medical information</p>

## 7 – Program learning outcomes

NRL 1. Highlight and identify leading clinical symptoms and syndromes; according to standard methods, using preliminary data of the patient's history, patient examination data, knowledge about the person, his organs and systems, establish a probable nosological or syndrome preliminary clinical diagnosis

dental disease

NRF 2 Collect information on the general condition of the patient, evaluate the psychomotor and physical development of the patient, the condition of the organs of the maxia-facial region, on the basis of the results of laboratory and instrumental studies to evaluate information about the diagnosis.

NRF 3 Prescribe and analyze laboratory, functional and/or instrumental examination of a patient with a dental disease for differential diagnosis of diseases.

NRF 4 Determine the final clinical diagnosis, observing the relevant ethical and legal standards, by making an informed decision and logical analysis of the received subjective and objective data of the clinical, additional examination, differential diagnosis under the supervision of the head doctor in the conditions of the medical institution.

NRF 5 To diagnose emergency conditions under any circumstances (at home, on the street, in a medical institution), in conditions of emergency, martial law, restriction of information and time.

NRF 6 Plan and implement measures for the prevention of dental diseases among the population to prevent the spread of dental diseases.

PRNA 7 Analyze the epidemiological condition and carry out mass and individual, general and local medical and non-drug prevention of dental diseases.

PRNA 8 Determine the nature of dental disease treatment by making an informed decision according to existing algorithms and standard schemes.

NRNA 9 Determine the nature, principles of the regimen of work, rest and the necessary diet during the treatment of dental diseases on the basis of a preliminary or final clinical diagnosis by making an informed decision according to existing algorithms and standard schemes.

NRF 10 To determine the tactics of conducting a dental patient for somatic pathology by making an informed decision according to existing algorithms and standard schemes

PRNA 11 Treat basic dental diseases according to existing algorithms and standard schemes under the supervision of a doctor-manager in a medical institution.

NRW 12 Organize medical and evacuation activities among the population, servicemen, in an emergency situation, including martial law, during the expanded stages of medical evacuation, taking into account the existing system of medical and evacuation support

NRF 13 Determine the tactics of emergency medical care using the recommended algorithms, under any circumstances on the basis of a diagnosis of an emergency in a limited time.

NRF 14 Analyze and evaluate state, social and medical

	<p>information using standard approaches and computer information technologies</p> <p>NRF 15 Assess the environmental impact on public health in a medical institution according to standard methods</p> <p>NRF 16 Perform medical manipulations on the basis of a preliminary and/or definitive clinical diagnosis for different segments of the population and under different conditions.</p> <p>NRF 17 Perform medical dental manipulations on the basis of a preliminary and/or definitive clinical diagnosis for different segments of the population and under different conditions.</p> <p>NRF 18 Perform manipulations of emergency medical care using standard schemes, under any circumstances on the basis of a diagnosis of an emergency in limited time</p> <p>NRF 19 To form goals and determine the structure of personal activity on the basis of the analysis of certain social and personal needs</p> <p>NRF 20 Follow a healthy lifestyle, use the techniques of self-regulation and self-control</p> <p>PNR 21 To be aware and guided in its civil rights, freedoms and responsibilities, to raise the overall cultural level of</p> <p>NRF 22 Adhere to the requirements of ethics, bioethics and deontology in professional activities.</p> <p>NRF 23 Organize the required level individual security (own and persons of whom cares) in the event of typical hazardous situations in the individual field of activity.</p>
<b>8 – Resource support of the program implementation</b>	
<b>Employment Ensure</b>	All scientific and pedagogical staff that conduct lectures on the disciplines of the educational program have a scientific degree. Most of the teachers of clinical disciplines actively carry out medical and diagnostic work and have practical experience. Flexible selective part of the curriculum allows conducting disciplines of choice by foreign teachers.
<b>Logistical support</b>	The educational program is provided with the necessary medical phantoms and mules, diagnostic tools and devices. On the basis of the concluded agreements during training, modern medical equipment and devices of public and private medical and prophylactic institutions of Uzhhorod.
<b>Information and educational and methodological support</b>	Didactic materials, practical cases and situational tasks, tests on the disciplines of this educational program are available to students through the e-learning system of the university e-learn. The University is provided with access to international scientometric databases the Web of Science ta Scopus.
<b>9- Academic mobility</b>	
<b>National credit mobility</b>	Due to the fact that the educational program is carried out according to a typical curriculum approved by the Ministry of Health of Ukraine, students have the opportunity to freely acquire part of the loans in other medical education institutions that

	adhere to the typical curriculum.
<b>International Credit Mobility</b>	It is possible to undergo medical production practice in Chadka (Slovak Republic), clinic "Petramed". Possible semester training in Debrecen University (Hungary).
<b>Training of foreign applicants for higher education</b>	The educational program provides for training of foreign students in Ukrainian or English. Foreign higher education applicants studying under this program are not involved in the implementation of the end-to-end program for training reserve officers "Healthcare", instead, master and improve the knowledge of the Ukrainian language.

## 2. List of components of the educational and professional program and their logical sequence

### 2.1 List of educational program components

N/A Code	Components of the educational program (academic disciplines, term papers, practices, qualification work)	Number of credits	Subtotal form control
1	2	3	4
<b>Required OP components</b>			
<b>General preparation</b>			
OK 1.	Foreign language	3	Credit
OK 2.	Ukrainian language (by professional direction)	3	Credit
OK 3.	History and culture of Ukraine	3	Credit
OK 4.	Philosophy	3	Credit
	Total	12,0	
<b>Natural and scientific training</b>			
OK.05	Latin language and medical terminology	3	Credit
OK.06	History of medicine	3	Credit
OK.07	Medical biology	5	Exam
OK.08	Medical and biological physics	4	Credit
OK.09	Medical chemistry	3	Credit
OK.10	Biological and bioorganic chemistry	8	Diff.credit, Exam
OK.11	Human anatomy	11	Exam
OK.12	Histology, Cytology and Embryology	7	Exam
OK.13	Foreign language (Professionally oriented)	3	Credit
OK.14	Physiology	6	Exam
OK.15	Microbiology, Virology and Immunology	5	Exam



	Total	58,0	
<b>Professional training</b>			
OK.17	Clinical anatomy and operative surgery	3	Exam
OK.18	Propaedeutic of Internal Medicine	3	Credit
OK.19	Hygiene and ecology	3	Exam
OK.20	Propaedeutic of Therapeutic Dentistry	4	Diff.credit
OK.21	Propaedeutic of Orthopaedic Dentistry	4	Diff.credit
OK.22	Propaedeutic of Pediatric Therapeutic Dentistry	3	Diff.credit
OK.23	Pathomorphology	6	Exam
OK.24	Pathophysiology	6	Exam
OK.25	Pharmacology	6	Exam
OK.26	Internal medicine (including infectious diseases and epidemiology, clinical pharmacology)	7	Exam
OK.27	Surgery (including oncology and neurosurgery)	8	Exam
OK.28	Social medicine, public health and the basics of evidence-based medicine	3	Diff.credit
OK.29	Radiology	3	Credit
OK.30	Forensic medicine (dentistry). Medical Law of Ukraine	3	Credit
OK.31	Prevention of dental Diseases	4	Diff.credit
OK.32	Therapeutic dentistry	21	Exam
OK.33	Surgical dentistry	19,5	Exam
OK.34	Orthopaedic dentistry	19,5	Exam
OK.35	Orthodontics	10	Diff.credit
OK.36	Phthisiology	3	Credit
OK.37	Pediatrics	3	Diff.credit
OK.38	Obstetrics	3	Credit
OK.39	Pediatric Therapeutic Dentistry	10	Exam

OK.40	Pediatric surgical dentistry	6	Diff.credit
OK.41	Social medicine, public health	3	Diff.credit
OK.42	Labor protection in the field	3	Credit
OK.43	General medical training (ophthalmology, neurology, including neurostomatology; dermatology, venerology; psychiatry, narcology; medical psychology; physical rehabilitation, sports medicine, endocrinology)	8	Exam
OK.44	Otorhinolaryngology	3	Exam
OK.45	Training of officers in the field of knowledge "Protection of health". Specialty "Dentistry"	3	Credit
OK.46	Production practice	19	Diff.credit
	<b>Total</b>	<b>155</b>	
<b>Total required components: 225</b>			
<b><i>Selective Block 1</i></b>			
VB.01.1	Clinical immunology and alergology in dentistry	3	Credit
VB.01.2	Medical genetic in dentistry		Credit
VB.01.3	Management and markeying in dentistry		Credit
VB.01.4	Life safety		Credit
VB.01.5	Basics of bioethics and biosafety		Credit
<b><i>Selective Block 2</i></b>			
VB.02.1	European standard of computer literacy	3	Credit
VB.02.2	Medical informatics		Credit
VB.02.3	Materials Science in Dentistry		Credit
VB.02.4	Telemedicine in dentistry		Credit
VB.02.5	Bioprotection and biosafety in dentistry		Credit
<b><i>Selective Block 3</i></b>			
VB.03.1	Dental radiology		Credit
VB.03.2	Cognition theory and medicine		Credit
VB.03.3	Ethical problems in medicine		Credit
<b><i>Selective Block 4</i></b>			
VB.04.1	Anaesthesiology in dentistry	3	Credit
VB.04.2	Social medical prevention		Credit
VB.04.3	Clinical physiology		Credit
VB.04.4	Actual problems physiotherapy, balneologyand		Credit

	rehabilitation	3	
<b>Selective Block 5</b>			
VB.05.1	Endodontics	5	Credit
VB.05.2	Conservative dentistry		Credit
VB.05.3	Diseases of the oral mucosa		Credit
VB.05.4	Basics of aesthetic restoration Teeth		Credit
VB.05.5	Periodontology		Credit
VB.05.6	Ergonomics in dentistry		Credit
VB.05.7	Plastic and reconstructive surgery	5	Credit
VB.05.8	Maxillofacil surgery		Credit
VB.05.9	Outpatient surgery and cosmetology	6	Credit
VB.05.10	Modern problems of Maxillofacil surgery		Credit
VB.05.11	Orthopeadic dentistry, including implantology	5	Credit
VB.05.12	Modern technologies of solid prosthetics		Credit
VB.05.13	Modern digital technologies n Orthopeadic dentistry		Credit
VB.05.14	Complex aesthetic and prosthetic rehabilitation		Credit
VB.05.15	Pediatric periodontal disease and oral mucosa	3	Credit
VB.05.16	Endodontic technique in pediatric dentistry		Credit
VB.05.17	Benign and malignant maxillofacial tumors in children		Credit
VB.05.18	Modern problems of Maxillofacil surgery of pediatric dentistry		Credit
VB.05.19	Pediatric dental prosthetics		Credit
VB.05.20	Modern technologies Orignofacil technique		Credit
	Physical Education	*	
	Certification		
<b>The total amount of selective component:</b>		<b>75</b>	
<b>THE TOTAL AMOUNT OF THE EDUCATIONAL PROGRAM</b>		<b>300</b>	

\* Non-credit disciplines



Structural and logical scheme of the educational program

<b>Year of Studying</b>	<b>Types of educational activities</b>
<b>1<sup>st</sup> year</b> (60 ECTS credits)	Normative disciplines (54 ECTS credits) Elective courses (6 ECTS credits)
<b>2<sup>nd</sup> year</b> (60 ECTS credits)	Normative disciplines (54 ECTS credits) Elective courses (6 ECTS credits)
<b>3<sup>rd</sup> year</b> (60 ECTS credits)	Normative disciplines (57 ECTS credits) Elective courses (3 ECTS credits)
<b>4<sup>th</sup> year</b> (60 ECTS credits)	Normative disciplines (54 ECTS credits) Elective courses (6 ECTS credits)
<b>5<sup>th</sup> year</b> (60 ECTS credits)	Normative disciplines (6 ECTS credits) Elective courses (54 ECTS credits)

## 2.1 Структурно-логічна схема ОП

1 курс	2 курс	3 курс	4 курс	5 курс
Ukrainian language (Professionally oriented)				
History of Ukraine and Ukrainian culture				
Philosophy				
Foreign language				
Foreign language (Professionally oriented)				
Latin language and medical terminology				
History of medicine				
Life safety, basics of bioethics and biosafety		Labor protection in the field		
<b>Medical biology</b>	<b>Microbiology, Virology and Immunology</b>			
Medical and Biological physics	Medical informatics			

<b>Histology, Cytology and Embryology</b>	<b>Pathomorphology</b>		
<b>Human anatomy</b>	Clinical anatomy and operative surgery	Surgery	Surgery including oncology and neurosurgery
			General medical training (ophthalmology, neurology, including neurostomatology, dermatology, venereology, psychiatry, narcology, medical psychology, physical rehabilitation, sports medicine, endocrinology)
			Emergency and emergency medical care
			Otorhinolaryngology
			Phthisiology
			Pediatrics
			Obstetrics
<b>Philosophy</b>	Preparation officers of the reserve industry "Protection of health." Specialty "Dentistry"	Forensic medicine (dentistry). Medical law of Ukraine.	
	Production practice	Production medical practice	Production dental practice

Medical chemistry	<b>Bioorganic and biological chemistry</b>		
Bioorganic and biological chemistry	<b>Pharmacology</b>		
	<b>Physiology</b>	Internal medicine	Internal medicine (including infectious diseases and epidemiology, clinical pharmacology)
	<b>Pathophysiology</b>		
	Propedeutics of Internal Medicine		
	Hygiene and ecology	Social medicine, public health and the basis of evidence-based Medicine	Social medicine, public health
		Radiology	
	Propedeutics of prosthetic dentistry	<b>Orthopaedic dentistry</b>	<b>Orthopaedic dentistry, including implantology</b>



Propedeutics of  
therapeutic  
dentistry

**Therapeutic dentistry**

Propedevtics of pediatric therapeutic dentistry	<b>Prevention of dental diseases</b>	<b>Pediatric Therapeutic Dentistry</b>
		<b>Pediatric Surgical dentistry</b>
	<b>Orthodontics</b>	
	<b>Surgical dentistry</b>	

Components of complex test exams KROK-1, KROK-2 and certification are highlighted in bold

### 3.

Certification of graduates of the educational-professional program "Dentistry" of the second (master's) level of higher education in the specialty 221 Dentistry 22 Health is conducted in the form of the Unified State Qualification Examination (USQE), the procedure for which is established by the Cabinet of Ministers of Ukraine from 28.03.2018 № 334 "On approval of the Unified State Qualification Examination for candidates of Master's degree in specialties 22 Health and ends with the issuance of a graduate document of higher education of the established standard for awarding him a master's degree with the qualification: "Master of Dentistry. Dental Practitioner.

Certification is carried out openly and publicly.



