

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
State Higher Education Institution
“Uzhhorod National University”

APPROVED
Minutes of the Academic
Council of “Uzhhorod
National University”

23.03.2023 № 3

EDUCATIONAL-PROFESSIONAL PROGRAM

“Dentistry”

The second (master's) level of higher education

Programme Subject Area: 221 Dentistry

Main field of study: 22 Health

Educational qualification: Master in Dentistry

Professional qualification: Dental practitioner

PUT INTO ACTION

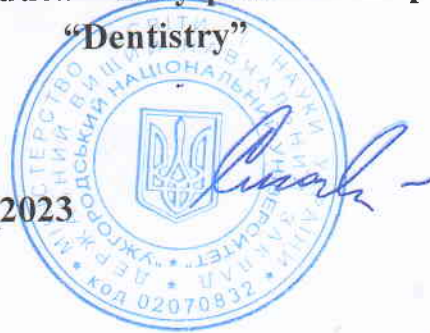
Rector of Uzhhorod

National University

Order

04.04.2023 № 147/01-04

**APPROVAL FORM
of the educationally-professional program**



Rector

V. Smolanka

23.03.

2023

**Guarantor of
the educationally – professional program**

Y. Kostenko

16.03.

2023

Dean of dental faculty

Y. Kostenko

16.03.

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Head of the working group

V. Melnyk

16.03.

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Head of the educational part

A. Shtymak

20.03.

2023

PREAMBLE

The educational-professional program is a normative document that defines the profile of the educational - professional program in specialty 221 "Dentistry", the list of program components and The educational-professional program "Dentistry" of the second (master's) level of higher education in the specialty 221 "Dentistry", field of knowledge 22 Health care was developed in accordance to the Law of Ukraine "On Higher Education", the Standard of Higher Education in the specialty 221 "Dentistry" field of knowledge 22 Health care for the second (master's) level of higher education affirmed by the order of the Ministry of Education and Science of Ukraine dated 24/06/2019, №879.their logical sequence, the number of ECTS credits required for the implementation of this program, the form of attestation of higher education applicants. During the preparation of the educational program, an in-depth content analysis of analogs of the educational programs of the "Dentistry" specialty, according to which studies are conducted in the universities of the Visegrad Four (Poland, Slovakia, Hungary and Czech Republic), was conducted. Based on the analysis, the disciplines that were characterized by the biggest discrepancy in credits, or those that were absent in the structure of the national work program, were singled out, so the optimization of such disciplines and additions due to selective disciplines were ensured in the new program, which contributed to the unification of the program to the European standard.

The educational-professional program was developed by working group of State University "Uzhgorod National University", dental faculty including:

Yevgen KOSTENKO – the head of working group, guarantor of educational program, doctor of medical sciences, professor, the dean of dental faculty;

Yuriy MOCHALOV – the member of working group, doctor of medical sciences, professor, professor of the department of surgical dentistry and clinical discipline;

Nadiya BOYKO - the member of working group, doctor of biological sciences,

professor, the head of the department of medical-biological disciplines;

Svitlana KOSTENKO - the member of working group, doctor of medical sciences, docent, the head of the department of prosthetic dentistry;

Volodymyr MELNYK - the member of working group, candidate of medical sciences, docent, the head of the department of pediatric dentistry;

Nataliya GEMA-BAGINA - the member of working group, candidate of medical sciences, docent, the head of the department of surgical dentistry and clinical discipline;

Myroslav GONCHARUK-KHOMYN - the member of working group, doctor of philosophy (PhD), the head of the department of therapeutic dentistry;

Pavlo BREHLICHUK - the member of working group, candidate of medical sciences, docent, docent of the department of surgical dentistry and clinical discipline.

External stakeholders' reviews:

Myroslava LYAKHINA – the Head of “University Dental Clinic” LTD;

Anatoliy BOKOCH – candidate of medical sciences, docent of the department of prosthetic dentistry, the owner of dental clinic A.V. Bokoch LTD, “Maysternya Posmishky”;

Anatoliy FOROS – doctor of philosophy (PhD), docent of the department of prosthetic dentistry, the owner of dental clinic “Focus”;

Volodymyr KRYVANYCH – candidate of medical sciences, docent, docent of the department of advanced study, the owner of dental clinic “Dental Classic”;

Peter DŽUPA – doctor of philosophy (PhD), docent, Doctor Honoris Causa, the head of dental clinic “Petramed”, Čadca, Slovak Republic;

Andrey JENČA – doctor of medical sciences, professor, Doctor Honoris Causa, the head of maxillofacial surgery clinic of University named by P.J. Šafarik in Košice.

1. The profile of educational program “Dentistry” of program subject area

221 Dentistry

1 – General information	
The full name of the university and structural department	State University “Uzhhorod National University” Dental faculty
The degree of higher education and the name of qualification by original language	The degree – Master’s Educational qualification – Master in Dentistry Professional qualification – Dental Practitioner
The official name of educational program	Dentistry
The type of diploma and the scope of educational program	Master’s Diploma, unitary, 300 credits ECTS, 4 years and 10 months of full-time study
Availability of Accreditation Cycle/ Level	Certificate of accreditation НД №0791825 National framework of Ukraine – 7 level, FQ-EHEA – second cycle, EQF- LLL – 7 level validity until 01.07.2024p.
Preconditions	Admission conditions are determined by admissions rules to State University «Uzhhorod National University»
Languages of teaching	Ukrainian, English
Validity of educational program	Until the next review according to the term of the accreditation certificate.
Internet-address of permanent posting of the description of the educational program	https://www.uzhnu.edu.ua/uk/infocentre/15068
2 – The purpose of educational program	
To provide the academical preparation of fundamental and clinical biomedical sciences and prepare graduates to the professional dentist’s activity by acquisition generally and specially competence, which scopes described by determined list of syndromes and symptoms diseases’, emergency situations, physiological conditions and illnesses, where is special tactic of patient’s conduction is needed; laboratory and instrumental investigations, medical manipulations; questions of labor, forensic and military expert investigation.	
3 – Characterization of educational program	
Application domain (area of knowledge, specialty, specialization)	Area of knowledge 22 Health Care Specialty 221 Dentistry
The orientation of educational program	Educational-professional program has applied orientation in the area of health, beside dental health, prevention, diagnostic and dental health treating.
The main focus of educational program and specialization	General High Education area of knowledge «Health Care », Specialty 221 Dentistry Key words: health care, medicine, dentistry, dentist, high education.
Features of program	The advanced world experience of the preparation the dentist and modern tendention as for recognition the priority of private dental practice considered in the educational program. The program realized in the small groups by combination of practical and theoretical preparation. It gives us the possibility to form the individual educational path by elective components (not less than

	25% from the general quantity of credits). The activation of practical skills are hold during the practical classes, industrial practices with lecturer. The program is taught in English language too.
4 – Graduates' validity to employment and continuing study.	
Validity to employment	<p>The expert prepared to the work for SICc ДК009:2010: Section Q. Health care and extension of social help. Part 86. Health Care.</p> <p>Group 86.2 Medicine and dental practice Class 86.23 Dental Practice</p> <p>After the preparation in internship and residency, the expert gets qualification – dentist, who can provide required in ДК 003:2010 professional work and can occupy appropriate doctor's rank: 2222.2 – Dentist. After finishing the internship (residency) and getting the qualification – Dentist, expert can do specialization and accomplish professional dentist's work of special line, which is indicated in the National Classifier of Ukraine "Classifier of Professions", occupy appropriate doctor's rank.</p>
Further studying	<p>After finishing education at EPP "Dentistry" and getting the degree "Master's in Dentistry" graduated can enter the program postgraduate education, where preparation for educational program in dental profile realizes.</p> <p>The continuing education on the third (educational-scientific) level of higher education.</p> <p>Acquirement of additional qualifications in the postgraduate education's system.</p>
5 – Teaching and grading	
Teaching and studding	Lectures, seminars, practically classes in the small groups at clinical bases; practice, tutorials with professors, self work. Problem-orientated education, self education, practical-oriented education, education through the investigation, simulation education.
Grading	<p>The evaluation acquirer's knowledge proceed according to Constitution about the organization of educational process in State University "Uzhhorod National University" https://www.uzhnu.edu.ua/uk/infocentre/get/31357</p> <p>Constitution about form and method of semester(course) exams and credits conducting in Uzhhorod National University. https://www.uzhnu.edu.ua/uk/infocentre/get/5952,</p> <p>Constitution of acquirer's of higher education attestation and examining board at State University "Uzhhorod National University" https://www.uzhnu.edu.ua/uk/infocentre/get/11070 maintaining rules of academic integrity according to the Constitution about academic integrity at "Uzhhorod National University" https://www.uzhnu.edu.ua/uk/infocentre/get/12223.</p> <p>The procedure for evaluating acquirers of higher education also appreciate the results of non-formal education according to the Constitution about form of recognition at State University "Uzhhorod National University" results of studying, acquired in non-formal education https://www.uzhnu.edu.ua/uk/infocentre/get/22966.</p> <p>Present definite procedure of reviewing the acquirers of higher education appellation, which is described in the Constitution about</p>

	<p>application procedure of actions in regulation of conflicts and arguments with workers and acquirers activities at State University “Uzhhorod National University” https://www.uzhnu.edu.ua/uk/infocentre/get/22964 and Constitution about appealing the results (appellation) of grades at State University “Uzhhorod National University” https://www.uzhnu.edu.ua/uk/infocentre/get/22967.</p> <p>Controlled declines acquirer’s of higher education of evaluating educational activity includes current and final knowledge’s and skill’s control. The final control includes semester control and state attestation higher education acquirers. «Excellent», «Good», «Satisfactory» grades show the results of: final module controls, exams and industrial practices. «Passed» show the results of tests.</p> <p>The final certification in educational-professional program of speciality 221 “Dentistry” is conducted by form Unified State Qualification Exam (USQE). USQE components included in the each stage are determined in Resolution “On adoption of the Unified State Qualification Exam for the students enrolled in the Master’s academic program and majoring in 22 “Health Care” branch of knowledge and consists of such components:</p> <ul style="list-style-type: none"> • Integrated test-based exam “KROK”, which grades accordance of expert’s preparation quality to the standards of higher education and conducts by the State organization “Testing Centre professional expert’s competence with higher education preparation “Medicine” and “Pharmacy” with Ministry of Health of Ukraine”; • The English Language Proficiency Test, grades professional-oriented English competency acquirers’ of higher education and conducts by the State organization “Testing Centre professional expert’s competence with higher education preparation “Medicine” and “Pharmacy” with Ministry of Health of Ukraine”; • Objective Structured Practical (Clinical) Examination, grades the graduate’s readiness to the professional activity according to the standards of higher education by demonstrating practical (clinical) components of professional competency on the real object or on the model and conducts by examination commission in the State University.
6 – Program competence	
Integral competency	Ability to solve complicated tasks and problems in the field of health care of specialty 221 “Dentistry” in professional activity or in the educational process, which provides the conducting of investigations and characterized by uncertainty of conditions and requirements.
General competency (GC)	<ol style="list-style-type: none"> 1. The ability to abstract thinking, analyze and synthesis. 2. The knowledge and understanding of subject’s area and understanding of professional activity. 3. The ability to use knowledge in the professional activity. 4. The ability to communicate by state language orally and in writing.

	<ol style="list-style-type: none"> 5. The ability to communicate in English language. 6. Skills of using the informative and communicative technologies. 7. The ability to search, work out and analyze the information from different sources. 8. The ability to adapt and act in new situation. 9. The ability to detect, to put and to solve problems. 10. The ability to be critical and self-critical. 11. The ability to work at team. 12. The desire to preserve the environment. 13. The ability to act socially-responsibly and consciously. 14. The ability to implement your rights and duties as a member of society, realize values of public (free, democratic) society and necessity of its development, the rule of law, person's and Ukrainian's rights. 15. The ability to keep and add moral, cultural and scientific values and achievements of society based on understanding the history and development of subject's area; its place in the general system of knowledge about nature and society and societies', technologies' development; to use different forms and types of activities for active rest and leading a healthy lifestyle.
Professional competence of specialty (PC)	<ol style="list-style-type: none"> 1. The ability to gather medical information about patient and analyze clinical data. 2. The ability to interpret the results of laboratory and instrumental investigations. 3. The ability to diagnose: determine the previous, clinical, final, concomitant diagnose emergencies. 4. The ability to plan and conduct activities in prevention of dental's diseases. 5. The ability to project the process of providing emergency help: determine methods, plans, varieties and principles of curing diseases of organs and tissues of oral cavity and maxilla-facial area. 6. The ability to determine rational working, resting, diet routine with patient during the curing diseases of organs and tissues of oral cavity and maxilla-facial area. 7. The ability to determine patient's performing with organ's diseases and oral cavity's tissues and maxilla-facial area with concomitant somatic diseases. 8. The ability to accomplish medical and dental manipulations. 9. The ability to cure oral cavity's organs and tissues diseases and maxilla-facial area. 10. The ability to organize and conduct health-evacuation declines. 11. The ability to determine tactics, methods and providing the emergency medical help. 12. The ability to organize and conduct screening examination in dentistry. 13. The ability to evaluate the environment's effect to the population's health (individual, family, general). 14. The ability to conduct the normative medical documentation. 15. The processing of statement, medical and social information. 16. The ability to organize and conduct rehabilitation measures and patient's care oral cavity's disease and maxilla-facial area. 17. The ability to legal security of own professional activity. 18. The ability to provide basic life support with protocols of

	tactical medicine.
7 - Program results of education	
	<ol style="list-style-type: none"> 1. To accent and to identify the main clinical symptoms and syndromes; in standard methods, using the previous data of patient's anamnesis, data of patient's examination, knowledge about person, his/her organs and systems, determine the veritable clinical diagnose of dental disease. 2. To gather the information about general patient's conditions, to evaluate psychological and physical patient's development, the condition of maxilla-facial organ's area, based on laboratorial's and instrumental's investigations, to evaluate information according to the diagnose. 3. To prescribe and to analyze additional methods of investigation (laboratorial, X-Rays, functional, instrumental etc.) for patients with oral cavities diseases to provide differential of diagnoses. 4. To determine the final clinical diagnose, according to the ethics and juristic rules, by the way of taking bottomed decision and logical analyse of subjective and objective data of clinical, additional examination, to conduct differential diagnostic under head-doctor's control. 5. To determine the diagnose of emergency in different situations (home, at the street, in the hospital), in condition of emergencies, law martial, limits of information and time. 6. To plan and project prevention of dental diseases amongst population to avoid spreading of dental diseases. 7. To analyse the epidemiological state and conduct events of massive and individual, general and local, medicated and unmedicated prevention of dental diseases. 8. To determine the position, plan, type and principle of curing the dental disease by the way of taking bottomed decision by algorithms and standard plan. 9. To determine the character of working time, resting time and needed diet during curing dental diseases by the way of taking bottomed decision by algorithms and standard plan. 10. To determine tactic of having dental patient with somatic disease by the way of taking bottomed decision by algorithms and standard plan. 11. To conduct the treatment of main dental diseases by existing algorithms and standard sketch with head chief's control in the clinic's area. 12. To organize the conduction of health-evacuation events amongst people, militaries in emergency conditions including law martial, during the open phase of medical evacuation. 13. To determine the tactic of providing emergency medical help, using recommended algorithms by any circumstances on the basis of diagnose of emergency state in condition of limited time. 14. To analyze and evaluate the state, social, medical information by using standard accesses and computer-information technologies. 15. To evaluate the influence of environment to the condition of population's health in clinic by standard methods. 16. To form aims and to determine the structure of personal activity bottomed by results of analyzing public and personal needs.

	<p>17. To follow the healthy lifestyle, to use methods of self regulations and self control.</p> <p>18. To realize and guided by civil rights, freedoms and duties in personal activities, to raise the general cultural level.</p> <p>19. To comply with the requirements of ethics, bioethics and deontology in professional activity.</p> <p>20. To organize needed level of individual safety (personal and people, you care about) in the case of having typical dangerous situations in personal area of activity.</p> <p>21. To do the medical manipulations bottomed by previous and/or last clinical diagnose for different people with different conditions.</p> <p>22. To do the medical-dental manipulations bottomed by previous and/or last clinical diagnose for different people with different conditions.</p> <p>23. To do manipulations of emergency medical help, by using standard schemes in different conditions bottomed by diagnose of emergency states.</p>
<p>8 – The resource support of program’s organization</p>	
<p>Stuff supply</p>	<p>Stuff supply for educational program conforms to license requirements of activity for regulated educational programs.</p> <p>Professor-teachers stuff always attend traineeships according to the Constitution about extension of qualification and traineeships for pedagogic and science-pedagogic employees of State University “Uzhhorod National University”</p> <p>https://www.uzhnu.edu.ua/uk/infocentre/get/5950.</p> <p>Teachers’ dominant part of professional disciplines actively has treatment-diagnostic work and has practical experience. A lot of practical medical experts and professionals attached to the educational process by pluralism conditions. Flexible elective part of educational plan allows us to give elective disciplines by foreign teachers. All science-pedagogic employees, who give lectures in disciplines of educational program, have educational degree. Teachers’ dominant parts of clinical disciplines active give treatment-diagnostic work and have practical experience.</p>
<p>Material and technical supply</p>	<p>Material-technical base of dental faculty allow us to provide educational process, scientific and treatment work on modern level according to requirements of states standards of higher education up to professional’s preparation, educational plan and program components of educational-professional program. Educational condition of acquirers corresponds to hygiene requirements.</p> <p>The educational program assured by needed medical phantoms and molds, diagnostic devices and instruments. Bottomed by arrangements during the education, modern medical instruments and apparatus of communal and private treatment-prevention facilities in Uzhhorod are used.</p>
<p>Informational and educational-methodical supply</p>	<p>The official website http://www.uzhnu.edu.ua has the information about educational programs, educational, scientific and disciplinary activity, structured departments, rules of acceptance, contacts;</p> <ul style="list-style-type: none"> - Unlimited excess to the Internet; - Funds and electron catalogs of educational library of UzhNU and also electron repository of UzhNU (https://dspace.uzhnu.edu.ua/jspui/) where situated educational-methodical materials with disciplines from

	<p>educational plan;</p> <ul style="list-style-type: none"> - Educational library, reading room; - Virtual educational platform (https://e-learn.uzhnu.edu.ua). <p>Educational and didactic materials, presentations, educational videos, practical cases and situational tasks, tests in disciplines of this educational program allowed to students through the system of electronic education of university. The university supplied by access to the international scientific metrics base of data WebofScience and Scopus.</p>
9 – Academically mobility	
National credit mobility	Academically mobility for students carry out based on bilateral agreement, concluded between State Higher Educational Institution “Uzhhorod National University” and Higher Educational Institution of Ukraine.
International Credit mobility	According to the Constitution about academically mobility for students in State University “Uzhhorod National University” https://www.uzhnu.edu.ua/uk/infocentre/get/21269 , accomplished general rules of organization of academically mobility.
Education of foreign acquirers of higher education	The recruitment and education for foreign students of higher education under this program is carried out in accordance to the law.

2. The list of components for educational-professional program and its logical order.

2.1. The components' list of EP

Code e/d	Components of educational program (educational disciplines, course projects(works))	Quantity of credits	The form of final control
1	2	3	4
Obligatory components of EP			
OC 1.	History of Ukraine and Ukrainian culture	3,0	Credit
OC 2.	Philosophy	3,0	Credit
OC 3.	Ukrainian language professionally oriented	13,0	Credit
OC 4.	Latin language and medical terminology	3,0	Credit
OC 5.	English language professionally oriented	6,0	Credit
OC 6.	History of medicine	3,0	Credit
OC 7.	General and oral biology	5,0	Exam
OC 8.	Medical informatics	3,0	Credit
OC 9.	Medical chemistry	3,0	Credit
OC 10.	Biological and bioorganic chemistry	3,0	Dif. Credit
OC 11.	Medical biochemistry	5,0	Exam
OC 12.	Human anatomy	11,0	Exam
OC 13.	Histology, cytology and embryology	7,0	Exam
OC 14.	Physiology	4,0	Exam
OC 15.	Microbiology, virology and immunology	5,0	Exam
OC 16.	Clinical anatomy and operative surgery	3,0	Exam
OC 17.	Propaedeutic of internal medicine	3,0	Credit
OC 18.	Hygiene and ecology	3,0	Exam
OC 19.	Pathomorphology	6,0	Exam
OC 20.	Pathophysiology	6,0	Exam
OC 21.	Pharmacology	6,0	Exam
OC 22.	Propaedeutic of therapeutic dentistry	4,0	Dif. Credit
OC 23.	Propaedeutic of prosthetic dentistry	4,0	Dif. Credit
OC 24.	Propaedeutic of pediatric therapeutic dentistry	3,0	Dif. Credit
OC 25.	Internal medicine (including infectious diseases and epidemiology, clinical pharmacology)	7,0	Exam
OC 26.	Surgery (including oncology and neurosurgery)	6,0	Exam
OC 27.	Social medicine, public health and basics of evidence-based medicine	3,0	Dif. Credit
OC 28.	Basics of radiology and methods of instrumental diagnostic	3,0	Credit
OC 29.	Prevention of dental diseases	4,0	Dif. Credit
OC 30.	Forensic medicine (dentistry). Medical law of Ukraine	3,0	Credit
OC 31.	Therapeutic dentistry	8,5	Exam
OC 32.	Surgical dentistry	8,5	Exam
OC 33.	Prosthetic dentistry	8,5	Exam
OC 34.	Orthodontics	6,0	Dif. Credit
OC 35.	Phthisiology	3,0	Credit
OC 36.	Pediatrics	3,0	Dif. Credit
OC 37.	Obstetrics	3,0	Credit
OC 38.	Otorhinolaryngology	3,0	Exam

OC 39.	General medical training (ophthalmology; neurology including neurostomatology; dermatology, venereology; psychiatry, narcology; medical psychology; physical rehabilitation, sports medicine; endocrinology)	7,5	Exam
OC 40.	Pediatric therapeutic dentistry	3,5	Exam
OC 41.	Pediatric surgical dentistry	3,0	Dif. Credit
OC 42.	Emergency and urgent medical care	3,0	Credit
Practices			
OC 43.	Practice care for patients in the departments of hospital	3,0	Dif. Credit
OC 44.	Practice. Nursing practice in dental clinics during the semester	3,0	Dif. Credit
OC 45.	Practice. Prevention of dental diseases. Practice. Therapeutic dentistry	4,5	Dif. Credit
OC 46.	Practice. Surgical dentistry	3,0	Dif. Credit
OC 47.	Practice. Prosthetic dentistry. Practice. Therapeutic dentistry	4,5	Dif. Credit
OC 48.	Practice. Pediatric dentistry	4,0	Dif. Credit
Certification			
	Integrated test-based Exam «Krok 1», Professional English Exam	-	Exam
	Integrated test-based Exam «Krok 2»	-	Exam
OC 49.	Objective structured practical (clinical) exam	1,5	Exam
General amount of obligatory components:		225,0	
Elective components of EP			
EC 1.	Elective discipline from general-university's catalog (1 course)	3,0	Credit
EC 2.	Elective discipline from general-university's catalog (1 course)	3,0	Credit
EC 3.	Elective discipline from department's catalog (2 course)	4,0	Credit
EC 4.	Elective discipline from department's catalog (2 course)	4,0	Credit
EC 5.	Elective discipline from department's catalog (3 course)	3,0	Credit
EC 6.	Elective discipline from department's catalog (3 course)	3,0	Credit
EC 7.	Elective discipline from department's catalog (3 course))	3,5	Credit
EC 8.	Elective discipline from department's catalog (4 course)	3,0	Credit
EC 9.	Elective discipline from department's catalog (4 course)	3,0	Credit
EC 10.	Elective discipline from department's catalog (4 course)	3,0	Credit
EC 11.	Elective discipline from department's catalog (4 course)	3,0	Credit

EC 12.	Elective discipline from department's catalog (4 course)	3,0	Credit
EC 13.	Elective discipline from department's catalog (5 course)	4,0	Credit
EC 14.	Elective discipline from department's catalog (5 course)	4,0	Credit
EC 15.	Elective discipline from department's catalog (5 course)	4,0	Credit
EC 16.	Elective discipline from department's catalog (5 course)	4,0	Credit
EC 17.	Elective discipline from department's catalog (5 course)	4,0	Credit
EC 18.	Elective discipline from department's catalog (5 course)	4,0	Credit
EC 19.	Elective discipline from department's catalog (5 course)	4,0	Credit
EC 20.	Elective discipline from department's catalog (5 course)	4,0	Credit
EC 21.	Elective discipline from department's catalog (5 course)	4,5	Credit
General amount of elective courses:		75,0	
GENERAL AMOUNT OF EDUCATIONAL PROGRAM:		300,0	

* The list of elective disciplines and practices, which are proposed to the students, renovates and changes every year, based by the teacher's offers, including previous developments, better practices and specializations.

2.2. Структурно-логічна схема ОП

1 курс	2 курс	3 курс	4 курс	5 курс
<p>OC 5. English language professionally oriented</p> <p>OC 3. Ukrainian language professionally oriented</p> <p>OC 2. Philosophy</p> <p>OC 1. History of Ukraine and Ukrainian culture</p>				
<p>OC 6. History of medicine</p> <p>OC 13. Histology, cytology and embryology</p> <p>OC 8. Medical informatics</p> <p>OC 7. General and oral biology</p> <p>OC 12. Human Anatomy</p>	<p>OC 18. Hygiene and ecology</p> <p>OC 15. Microbiology, virology and immunology</p> <p>OC 16. Clinical anatomy and operative surgery</p> <p>OC 17. Propaedeutic of internal medicine</p> <p>OC 14. Physiology</p> <p>OC 20. Pathophysiology</p> <p>OC 19. Pathomorphology</p> <p>OC 21. Pharmacology</p> <p>OC 11. Medical biochemistry</p>	<p>OC 25. Internal medicine (including infectious diseases and epidemiology, clinical pharmacology)</p> <p>OC 26. Surgery(including oncology and neurosurgery)</p> <p>OC 30. Forensic medicine (dentistry). Medical law of Ukraine</p> <p>OC 20. Pathophysiology</p> <p>OC 19. Pathomorphology</p> <p>OC 21. Pharmacology</p> <p>OC 28. Basics of Radiology and Methods of Instrumental Diagnostic</p> <p>OC 29. Prevention of Dental Diseases</p> <p>OC 31. Therapeutic Dentistry</p> <p>OC 32. Surgical Dentistry</p> <p>OC 33. Orthopaedic Dentistry</p> <p>OC 34. Orthodontics</p>	<p>OC 25. Internal medicine (including infectious diseases and epidemiology, clinical pharmacology)</p> <p>OC 26. Surgery(including oncology and neurosurgery)</p> <p>OC 37. Obstetrics</p> <p>OC 39. General medical training (ophthalmology; neurology including neurostomatology; dermatology, venereology; psychiatry, narcology; medical psychology; physical rehabilitation, sports medicine; endocrinology)</p> <p>OC 40. Pediatric Therapeutic Dentistry</p> <p>OC 31. Therapeutic Dentistry</p> <p>OC 32. Surgical Dentistry</p> <p>OC 33. Orthopaedic Dentistry</p> <p>OC 34. Orthodontics</p>	<p>OK 27. Social Medicine, public health and basics of evidence-based medicine</p> <p>OC 42. Emergency and Urgent Medical Care</p> <p>OC 35. Phthisiology</p> <p>OC 38. Otorhinolaryngology</p> <p>OC 36. Pediatrics</p> <p>OC 40. Propaedeutic of Pediatric Therapeutic Dentistry</p> <p>OC 41. Pediatric Surgical Dentistry</p>
<p>OC 4. Latin language and medical terminology</p>				
<p>OC 9. Medical Chemistry</p>				
<p>OC 10. Biological and bioorganic chemistry</p>				

<p>OC 43. Practice. Care for patients in the departments of hospital during the semester</p>	<p>OC45. Practice. Prevention of Dental Diseases. Practice. Therapeutic Dentistry</p>	<p>OC 47. Practice. Orthopaedic Dentistry. Practice. Therapeutic Dentistry</p>	<p>OC 48. Practice. Pediatric Dentistry</p>
<p>OC 44. Practice. Nursing practice in dental clinics during the semester</p>	<p>OC 46. Practice. Surgical Dentistry</p>		<p>OC 49. Objective Structured Practical (Clinical) Examination</p>
<p>Krok 1</p>			<p>Krok 2</p>

3. The certification form for acquirers' of higher education

<p>The certification form for acquirers' of higher education</p>	<p>The certification by the educational-professional program in specialty 221 "Dentistry" presents in form of USQE. After passing all stages of USQE acquirers get Educational qualification – Master in Dentistry and Professional qualification – Dental Practitioner.</p>
<p>Requirements to the USQE</p>	<p>USQE carried out according to the procedures for conducting a unified state qualifications exam for acquirers' of higher educational degree master in specialty of knowledge area "Healthcare" and consists of such components:</p> <ul style="list-style-type: none"> - Integrated testing exam "Krok", which evaluates the compliance of the quality of specialist's training by the standards of higher education and the state organization "Testing Centre of professional competence for specialists with higher education in the fields of training "Medicine" and "Pharmacy" under the Ministry of Health of Ukraine" - The English Language Proficiency Test, which evaluates professional-oriented English competency of the higher education's acquirers and conducted by State organization "Testing Centre of professional competence for specialists with higher education in the fields of training "Medicine" and "Pharmacy" under the Ministry of Health of Ukraine"; - Objective Structured Practical (Clinical) Examination, which evaluates graduate's readiness to the implementation of professional activity in accordance with the requirements of the standards of higher education by demonstrating practical (clinical) components of professional competence on a real objects or on a model and is conducted by the examination board of the institution of higher education.

Educational components Program competences	EC 26	EC 27	EC 28	EC 29	EC 30	EC 31	EC 32	EC 33	EC 34	EC 35	EC 36	EC 37	EC 38	EC 39	EC 40	EC 41	EC 42	EC 43	EC 44	EC 45	EC 46	EC 47	EC 48	EC 49	
	<i>Загальні компетентності</i>																								
GC 1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 4	+	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+
GC 5	+	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+		+	+		+	
GC 6	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 7	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 8	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 9	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
GC 10	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
GC 11	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	
GC 12		+																	+	+	+	+		+	
GC 13	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 14	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
GC 15		+		+	+														+		+	+		+	
<i>Фахові компетентності</i>																									
PC 1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
PC 2	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+
PC 3	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+
PC 4		+	+	+		+	+	+								+	+				+	+	+	+	+
PC 5			+			+	+	+	+							+	+				+	+	+	+	+
PC 6		+	+	+			+	+								+	+				+	+		+	+
PC 7	+		+			+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+
PC 8	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
PC 9			+			+	+	+	+							+	+				+	+	+	+	+
PC 10			+					+										+							+
PC 11	+		+					+		+	+	+	+	+				+							+
PC 12		+	+	+		+	+	+	+							+	+				+	+	+	+	+
PC 13		+	+	+		+		+								+	+			+	+		+	+	+
PC 14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
PC 15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
PC 16		+	+	+		+	+	+	+						+	+	+				+	+	+	+	+
PC 17		+		+	+		+	+	+						+	+	+		+		+	+	+	+	+
PC 18	+							+		+			+			+	+	+			+	+		+	+

**5. The matrix of providing program learning outcomes (PLO)
with the relevant components of the educational program**

Educational components Program learning outcomes	EC 1	EC 2	EC 3	EC 4	EC 5	EC 6	EC 7	EC 8	EC 9	EC 10	EC 11	EC 12	EC 13	EC 14	EC 15	EC 16	EC 17	EC 18	EC 19	EC 20	EC 21	EC 22	EC 23	EC 24	EC 25	
PLO 01				+			+		+	+	+	+	+	+					+	+		+	+			
PLO 02							+	+	+	+	+	+	+	+			+	+			+	+	+		+	
PLO 03							+	+				+	+	+	+			+		+			+	+		+
PLO 04								+										+					+			+
PLO 05																		+								+
PLO 06						+						+		+								+				
PLO 07													+		+				+							
PLO 08								+					+		+				+				+			
PLO 09													+	+	+				+							
PLO 10											+		+		+			+								+
PLO 11													+									+	+			
PLO 12																			+							
PLO 13																										+
PLO 14				+	+			+				+	+		+		+	+				+		+	+	+
PLO 15						+	+						+		+				+					+	+	
PLO 16		+				+												+	+					+	+	+
PLO 17						+					+		+	+	+				+					+	+	+
PLO 18	+		+				+					+						+				+		+	+	+
PLO 19		+										+						+				+	+	+	+	+
PLO 20												+	+		+	+	+	+						+	+	+
PLO 21																	+	+								+
PLO 22							+										+						+			
PLO 23																										+

Educational components Program learning outcomes																									
	EC 26	EC 27	EC 28	EC 29	EC 30	EC 31	EC 32	EC 33	EC 34	EC 35	EC 36	EC 37	EC 38	EC 39	EC 40	EC 41	EC 42	EC 43	EC 44	EC 45	EC 46	EC 47	EC 48	EC 49	
PLO 01			+	+	+	+	+	+	+						+	+				+	+	+	+	+	
PLO 02	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+
PLO 03	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	+	+
PLO 04	+		+		+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+
PLO 05	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+
PLO 06		+	+	+		+	+	+	+						+	+					+	+	+	+	+
PLO 07		+		+			+	+	+						+	+					+	+		+	
PLO 08			+			+	+	+	+						+	+					+	+	+	+	+
PLO 09		+		+			+	+	+				+	+	+	+					+	+		+	+
PLO 10	+						+	+	+	+	+	+	+	+	+	+	+				+	+		+	+
PLO 11			+			+	+	+	+						+	+					+	+	+	+	+
PLO 12								+									+								+
PLO 13	+		+			+		+		+	+	+	+	+			+					+			+
PLO 14	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+
PLO 15		+		+				+	+						+	+		+	+	+			+		+
PLO 16	+	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	
PLO 17	+	+		+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	
PLO 18	+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	
PLO 19	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
PLO 20	+						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	
PLO 21	+						+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+
PLO 22			+			+	+	+	+						+	+					+	+	+	+	+
PLO 23	+							+	+	+	+	+	+	+	+	+	+	+			+		+	+	+