

PROFILE OF EDUCATIONAL PROGRAM 222 «MEDICINE»

in Speciality 222 Medicine Branch of Knowledge 22 Health Care

1 – General information	
Full name of the higher education institution and structural units which provide education	National Pirogov Memorial Medical University, Vinnytsya Medical Faculty № 1, Medical Faculty № 2
Higher Education Level	Second (Master's) Level
Higher Education Degree	Master
Branch of Knowledge	22 Health Care
Speciality	222 Medicine
Form of Study	Full-time
Educational Qualification	Master of Medicine
Qualification according to diploma	Higher Education Degree – Master Speciality – 222 Medicine Professional Qualification - physician
Official name of the educational program	«Medicine»
Educational program scope and type of diploma	360 ECTS credits, term of study - 5 years 10 months (6 academic years). Master's diploma, unitary, 360 ECTS credits.
Accreditation	Accredited by NAQA Ukraine. Certificate № 1981 dated 20.07.2021 (valid till 01.07.2027)
Cycle/Level	FQ – EHEA – second cycle, QF-LLL – 7 level, NFQ of Ukraine – 7 level
Preconditions	General Certificate of Secondary Education. Admission Conditions are determined by Rules of Admission to «National Pirogov Memorial Medical University, Vinnytsya» MoH of Ukraine according to acting legislation
Language(s) of Instruction	Ukrainian, English
Term of the educational program	6 years (till 01.07.2027)
Internet address of permanent placement of the educational-professional program description	https://www.vnmu.edu.ua/загальна-інформація/основні-документи
2 – Objective of the educational program	
Formation of the ability to use the acquired knowledge, skills, abilities, general and special competencies, as well as components of scientific research to solve professional problems of a doctor in health care, the scope of which is provided by certain lists of physiological and pathological conditions, diseases and emergencies, instrumental and laboratory research, solving issues of medical and social, labour and military expertise and rehabilitation, introduction of preventive measures.	
3 – Description of the educational program	
Subject area (branch of knowledge, speciality)	Branch of knowledge – 22 «Health Care» Specialty – 222 «Medicine».

	<p>The objects of study are: prevention, diagnosis and treatment of human diseases, influence of health problems on patients, their families and population, maintaining health.</p> <p>Objectives of the study: gaining the ability to solve complex problems and tasks, including research and innovation, in the field of medicine. Ability to continue learning with a high degree of autonomy.</p> <p>Theoretical content of the subject area: concepts, principles and theories of prevention, diagnostics and treatment of human diseases on individual, family and populational levels.</p> <p>Methods, techniques, technologies: anamnestic, clinical, laboratory, instrumental methods of diagnostic process, determination of leading symptoms and syndromes, determination of preliminary and clinical diagnosis; technologies of diagnostics, treatment and prevention, management and organization of work in the field of health care.</p> <p>Tools and equipment: modern diagnostic, therapeutic and other devices, objects and devices used in professional activities.</p>
Academic rules of graduates	Acquisition of additional qualifications and medical specializations in the system of adult education, in particular in internships. Obtaining education at the third (educational and scientific) level of higher education
Educational program orientation	Educational and professional program (professional orientation on the theory and practice of medicine).
General focus of the educational program	General higher education in the field of knowledge 22 "Health Care", speciality 222 "Medicine" Key words: master's degree, medicine, health care, higher education
Distinctive features of the program	At the university with 100-years-experience in teaching the applicants get the new, smarter and more advanced knowledge from the recognized science schools, practicing specialists, members of international and foreign associations. The Program provides individuality of educational trajectory, forms skills of professional researches and introduction of innovations, promotes competitiveness of graduates in the domestic and international labour markets. Practical skills are acquired and improved at VNMU training center, own clinical bases (University Clinic, Research Institute for Rehabilitation of Persons with Disabilities), medical and psychological center, medical institutions of the city and region. EPP is implemented in small groups with a combination of theoretical and practical training, taught in Ukrainian and English.
4 – Capabilities of graduates for employment and further education	
Capability for employment	<p>Unit 2 Professionals</p> <p>Subunit 22 Professionals in life and medical sciences</p> <p>Class 221 Professionals in life and medical sciences</p> <p>Class 222 Professionals in the field of medicine (except medical nurses)</p> <p>Subclass 2221 Professionals in general medicine (except dentists)</p> <p>Group 2221.2 Physicians</p> <p>Subclass 2225 Professionals in medical prophylaxis</p> <p>2225.2 Physicians, specialists in medical prophylaxis</p> <p>2229.2 Professionals in the field of medicine (except nursing and obstetrics)</p> <p>Professional titles of works - according to the National Classifier of Ukraine: Classifier of professions SQ 003: 2010.</p> <p>A professional is trained to work according to SQ 009-2010: Section Q. Health care and social aid Part 86.1. Activity of medical institutions</p>

	<p>Group 86.10 Activity of medical institutions Class 86.21 General medical practice Class 86.90 Other activity in health care After graduating from the educational program Master in specialty "222 Medicine", the professional is able to perform the following professional work: intern (QP code - 3229); trainee doctor (QP code - 3221); resident (QP code – XXX).</p>
Further education	<p>After graduating from EPP 222 "Medicine" one can enter the programs of postgraduate education (internship, residency), where training is carried out according to the educational programs of doctor's training. After completing an internship in "Medicine", the specialist has the right to:</p> <ul style="list-style-type: none"> -to get specialization and perform the relevant professional work of a doctor of a certain specialty, which is specified in the current National Classifier of Ukraine Professions Classifier SQ 003: 2010, to hold a relevant medical position; - continue education at the third (educational and scientific) level of higher education (doctor of philosophy); - to acquire another specialty that gives the opportunity to hold a relevant medical position and perform relevant professional work; to acquire additional qualifications in the system of postgraduate education, to improve qualifications in the system of continuous professional development.
5 - Teaching and assessment	
Teaching and studying	<p>Competence, student-centered learning, initiative self-learning, problem-oriented learning with a scientific component. The educational process takes the following forms: interactive scientific and cognitive lectures, practical classes in small groups, independent work, consultations with teachers, use of electronic tests of knowledge control, special simulators for practicing complex manual skills, access to online lectures, writing case histories, training and educative practices.</p>
Assessment	<p>Assessment of studying achievements is carried out on mutually agreed 5-point (5 - "excellent", 4 - "good", 3 - "satisfactory", 2 - "unsatisfactory") and verbal ("passed", "not passed") systems, educational institution scale (from 0 to 200 points), national ECTS scale (A, B, C, D, E, FX, F). Types of control: current, intermediate, final. Forms of control: credits, differentiated credits, exams, attestation of graduates (OSCE).</p>
6 – Program competences	
Integral competence	<p>Ability to solve complex problems, including ones of research and innovation character in the sphere of medicine. Ability to continue learning with a high degree of autonomy.</p>
General competences (GC)	<ol style="list-style-type: none"> 1. Ability to abstract thinking, analysis and synthesis. 2. Ability to learn and acquire modern knowledge. 3. Ability to apply knowledge in practical situations. 4. Knowledge and understanding of the subject area and understanding of professional activity. 5. Ability to adapt and act in a new situation. 6. Ability to make rational decisions; 7. Ability to team work. 8. Ability to interpersonal interaction. 9. Ability to communicate in a foreign language. 10. Ability to use of information and communication technologies.

	<ol style="list-style-type: none"> 11. Ability to search, process and analyse information from various sources. 12. Definiteness and persistence in terms of set tasks and responsibilities. 13. Awareness of equal opportunities and gender issues. 14. Ability to exercise one's rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine. 15. Ability to preserve and increase moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, to apply various techniques and technologies for active recreation and healthy living.
Special (professional, subject) competences (SC)	<ol style="list-style-type: none"> 1. Ability to collect medical information about the patient and analyse clinical data. 2. Ability to determine the required list of laboratory and instrumental studies and evaluate their results. 3. Ability to establish a preliminary and clinical diagnosis of the disease. 4. Ability to determine the required mode of work and rest in the treatment and prevention of diseases. 5. Ability to determine the type of nutrition in the treatment and prevention of diseases. 6. Ability to determine the principles and type of treatment and prevention of diseases. 7. Ability to diagnose emergencies. 8. Ability to determine the tactics of emergency medical care providing. 9. Ability to carry out medical and evacuation actions. 10. Ability to carry out medical manipulations. 11. Ability to solve medical problems in new or unfamiliar environments with incomplete or limited information, taking into account aspects of social and ethical responsibility. 12. Ability to determine the management tactics of physiological pregnancy, physiological childbirth and the postpartum period. Family planning and contraceptive counselling skills. 13. Ability to carry out sanitary and hygienic and preventive actions. 14. Ability to plan and conduct preventive and anti-epidemic actions against infectious diseases. 15. Ability to carry out examination of working capacity. 16. Ability to keep medical records including electronic forms. 17. Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population. 18. Ability to analyse the activities of a doctor, department, health care institution, to take measures to ensure the quality of medical care and improve the efficiency of medical resources. 19. Ability to conduct activities for the organization and integration of medical care and marketing of medical services. 20. Ability to carry out epidemiological and medical-statistical studies of public health; processing of social, economic and medical information. 21. Clearly and ambiguously deliver one's own knowledge, conclusions and arguments on health issues and related issues to professionals and non-specialists, in particular to students. 22. Ability to manage health care workflows that are complex, unpredictable and require new strategic approaches.

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| <p>23. Ability to develop and implement scientific and applied projects in the field of health care.</p> <p>24. Adherence to ethical principles when working with patients, laboratory animals.</p> <p>25. Adherence to professional and academic integrity, be responsible for the accuracy of scientific results.</p> |
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7 - Program learning outcomes

1. To have a comprehensive knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integration of knowledge. To be responsible for professional development, ability to further professional training with a high level of autonomy.
2. Understanding and knowledge of basic and clinical biomedical sciences, at a level sufficient to solve professional problems in the field of health care.
3. Specialized conceptual knowledge, which includes scientific achievements in the field of health care and is the basis for research, critical thinking in the field of medicine and related interdisciplinary issues.
4. To recognize and identify main clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's anamnesis, data of the patient's examination, knowledge of the person, his organs and systems, to establish a preliminary clinical diagnosis of the disease (according to list 2).
5. To collect complaints, life history and disease, assess the patient's psychomotor and physical development, condition of organs and systems of the body, based on the results of laboratory and instrumental studies to assess information about the diagnosis (according to list 4), taking into account the patient's age.
6. To establish a final clinical diagnosis by making an informed decision and analysis of subjective and objective data of clinical, additional examination, differential diagnosis, adhering to relevant ethical and legal norms, under the supervision of a physician-manager in a health care institution (according to list 2).
7. To prescribe and analyse additional (mandatory and optional) examination methods (laboratory, functional and / or instrumental) (according to list 4), patients with diseases of organs and systems of the body for differential diagnosis of diseases (according to list 2).
8. To determine the main clinical syndrome or the severity of the victim (according to list 3) by making an informed decision and assessing the human condition under any circumstances (in a health care institution, outside it), including conditions of emergency and hostilities, in the field, in conditions of lack of information and limited time.
9. To determine the character and principles of treatment of patients (conservative, operative) with diseases (according to list 2), taking into account the age of the patient, in a health care facility, outside it and at the stages of medical evacuation, including in the field, on the basis of a preliminary clinical diagnosis, adhering to relevant ethical and legal norms, by making an informed decision on existing algorithms and standard schemes, if necessary to expand the standard scheme be able to justify personalized recommendations under the supervision of a doctor in a medical institution.
10. To determine the necessary mode of work, rest and nutrition on the basis of the final clinical diagnosis, adhering to the relevant ethical and legal norms, by making an informed decision according to existing algorithms and standard schemes.
11. To determine the approach, plan and tactics of physiological pregnancy, physiological childbirth and the postpartum period by making an informed decision according to existing algorithms and standard schemes.
12. To assess the general condition of the new-born child by making an informed decision according to existing algorithms and standard schemes, adhering to the relevant ethical and legal norms.
13. To assess and monitor the development of the child, provide recommendations for breastfeeding and nutrition depending on age, organize preventive vaccinations on the calendar.
14. To determine tactics and provide emergency medical care (according to list 3) for a limited time in accordance with standard clinical protocols and treatment.
15. To organize the provision of medical care and medical and evacuation measures to the population and servicemen in emergencies and hostilities, including in the field.
16. To form rational medical routes of patients; organize interaction with colleagues in their own and other institutions, organizations and institutions; apply tools to promote medical services on the market, based on

- the analysis of the needs of the population, in the conditions of functioning of the health care institution, its subdivision, in a competitive environment.
17. Carry out medical manipulations (according to list 5) in a medical institution, at home or at work on the basis of a previous clinical diagnosis and / or indicators of the patient's condition by making an informed decision, adhering to relevant ethical and legal norms.
 18. Determine the state of functioning and limitations of a person's life and duration of incapacity for work with the issuance of relevant documents in the health care institution on the basis of data on the disease and its course, features of human activity, etc. Maintain medical records of the patient and the population on the basis of regulatory documents.
 19. Plan and implement a system of anti-epidemic and preventive measures for the occurrence and spread of diseases among the population.
 20. Analyse the epidemiological situation and carry out measures of mass and individual, general and local prevention of infectious diseases.
 21. Search the necessary information in the professional literature and databases of other sources, analyse, evaluate and apply this information.
 22. Apply modern digital technologies, specialized software, statistical methods of data analysis to solve complex health problems.
 23. Assess the impact of the environment on human health to assess the incidence of the population.
 24. Organize the necessary level of individual safety (own and persons cared for) in case of typical dangerous situations in the individual field of activity.
 25. Clearly and unambiguously communicate your knowledge, conclusions and arguments on health issues and related issues to professionals and non-specialists.
 26. Manage health workflows that are complex, unpredictable and require new strategic approaches, organize the work and professional development of staff, taking into account the acquired skills of effective teamwork, leadership positions, good quality, accessibility and fairness, ensuring integrated health care.
 27. Fluent in the state and English languages, both orally and in writing, to discuss professional activities, research and projects.
 28. Make effective decisions on health issues, assess the necessary resources, take into account social, economic and ethical implications.
 29. Plan, organize and conduct activities for the specific prevention of infectious diseases, including in accordance with the National Calendar of preventive vaccinations, both mandatory and recommended. Manage vaccine residues, organize additional vaccination campaigns, including immunoprophylaxis measures.

8 – Resource support for program implementation

Staffing	<p>Research and teaching staff - head and members of the project team, faculty of departments of National Pirogov Memorial Medical University, Vinnytsya, which ensure the implementation of the educational component of EPP "Medicine", meet the requirements of the Licensing Conditions for educational activities of educational institutions in the field of higher education for the second (master's) level, namely qualified according to the speciality, confirmed level of scientific and professional activity, are full-time employees of the university.</p> <p>Practitioners, members of international and national professional associations are widely involved in the implementation of the professional-oriented component of the EPP, which increases the integration of theoretical training and practices, ensures the achievement of goals and program learning outcomes.</p>
Facilities	<p>Meets the technological requirements for logistics of educational activities in higher education in accordance with current legislation of Ukraine (Resolution of the Cabinet of Ministers of Ukraine "On approval of licensing conditions for educational activities of educational institutions" of December 30, 2015, № 1187 as amended in accordance with Resolution of the Cabinet of Ministers № 365 on 24.03.2021).</p>

	<p>Availability of educational and lecture halls, equipped with computer workstations, multimedia, technical means of education; clinical base for practical training for higher education applicants or according current agreements for practical training in medical institutions; specific mannequins and models. The training base of the structural subdivisions of the medical faculty allows to organize and conduct classes in all disciplines at the appropriate scientific and methodological level. Multimedia and computer equipment are used for lectures and practical classes. Classrooms are equipped with the necessary devices and equipment, there are computer classes. To implement practical skills at the university there is an educational & training (simulation) center for practical training, University Clinic, educational, research and treatment complex Research Institute for Rehabilitation of Persons with Disabilities. The university has a quality and safe educational environment: 3 main academic buildings, 1 laboratory building, 12 educational and scientific laboratories, modern scientific library, has its own printing house, medical and psychological center, 6 student dormitories, gyms, a new modern stadium, food outlets, equipped ramps and a lift. Practical training for higher education applicants is provided at clinical locations and in treatment and prevention institutions in accordance with current agreements.</p>
<p>Information educational and methodical support</p>	<p>Information and educational and methodological support for the implementation of the program meets the licensing conditions of educational activities of educational institutions in the field of higher education for the second (master's) level, including:</p> <ul style="list-style-type: none"> - description of the educational-professional program and curriculum; work programs and syllabi of educational components; comprehensive educational and methodological support of academic disciplines (methodological developments for practical classes, seminars, independent work of higher education seekers; individual tasks of practical and research orientation; tasks for knowledge control (exam tickets, test tasks, situational tasks, clinical cases, lists) theoretical issues, practical skills in disciplines); work programs and methodological materials for practical training, materials for the preparation and conduct of attestation (OSCE). - the official website of the university http://vnmdu.edu.ua , which contains information about the structure, licenses, certificates of accreditation; regulations governing the educational process and the provision of educational services, prevention and resolution of conflicts; code of academic integrity; educational, scientific, publishing activities, certification of scientific stuff; curricula, schedules of educational process, admission rules; web pages of faculties and departments (with all the necessary studying materials, multimedia lectures); electronic journal; platforms for remote study, materials for attestation, etc. - a scientific library with a collection of more than half a million copies (more than 80% - on medical topics), a hall of electronic information (30 computers) with free access to the Internet, training (Dr. Najeeb Lectures, Coursera) and scientometric databases (Scopus, WoS), programs for checking texts for similarity (Strikeplagiarism, Unicheck), institutional repository (over 4000 species). The library's IP address provides access to 38,000 e-books and 3,500 Elsevier journals through the Science Direct database.
<p>9 – Academic Mobility</p>	
<p>National credit mobility</p>	<p>National credit mobility is carried out on the basis of current legislation, Law of Ukraine "On Higher Education", Regulations on academic mobility of</p>

	participants in the educational process of VNMU, individual request of the applicant.
International credit mobility	International credit mobility is carried out on the basis of current legislation and the Regulations on academic mobility of participants in the educational process of VNMU, as well as on the basis of cooperation agreements with individual institutions for the implementation of joint research on topical issues of medicine for Ukraine, exchange of scientific and scientific-pedagogical staff, applicants and graduate students with more than 40 foreign universities and medical institutions, individual request of the applicant.
Training of foreign higher education applicants	Admission of foreign applicants is conducted in accordance with the "Rules of admission to National Pirogov Memorial Medical University, Vinnytsya for foreigners and stateless persons" within the licensed scope of the speciality 222 Medicine. Training takes place in accordance with the "Regulations on the organization of the educational process at VNMU» and is carried out in Ukrainian or English (upon the choice of the applicant).

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

Code	2.1. List of EPP components EPP components (academic disciplines, practices)	Amount of credits	Form of <i>current</i> / final control
Compulsory EPP Components (CC)			
General (Socio-humanitarian) Training			
CC 1	Foreign Language (<i>including Professional</i>)	9,0	<i>Credit</i> / Dif.credit
CC 1 (f)	<i>Ukrainian as a Foreign Language (for foreign students)</i>		
CC 2	Professional Ukrainian Language	3,0	Dif.credit
	<i>CC 2 (f) Ukrainian as a Foreign Language: Fundamentals of Professional Speaking (for foreign students)</i>		
CC 3	Philosophy (<i>including of Culture of Academic Integrity</i>)	3,0	Dif.credit
	<i>CC 3.1 Culture of Academic Integrity</i>	1,0	Credit
CC 4	History of Ukraine and Ukrainian Culture. Historical and Cultural Heritage and Traditions of the University	2,0	Credit
Total		17	
Fundamental (Natural Science) Training			
CC 5	Latin language and Medical Terminology	3,0	Dif.credit
CC 6	Medical Biology	5,5	Exam
CC 7	Medical Chemistry	4,0	Dif.credit
CC 8	Bioorganic Chemistry	3,0	Dif.credit
CC 9	Biologic Chemistry	6,5	Dif.credit
CC 10	Medical and Biologic Physics	3,5	Dif.credit
CC 11	Medical Informatics	3,5	Dif.credit
CC 12	Human Anatomy	14,0	<i>Credit</i> / Exam
CC 13	Histology, Cytology and Embryology	11,0	<i>Credit</i> / Exam
CC 14	Physiology	10,0	<i>Credit</i> / Exam
CC 15	Microbiology, Virology and Immunology	80	<i>Credit</i> / Exam
Total		72	
Professional Training			
CC 16	Life Safety, Fundamentals of Bioethics and Biosafety	2,0	Credit
CC 17	Occupational Health in Medicine	2,0	Credit

CC 18	Pathomorphology	7,0	<i>Credit / Exam</i>
CC 19	Pathophysiology	7,0	<i>Credit / Exam</i>
CC 20	Pharmacology	7,0	<i>Credit / Exam</i>
CC 21	Hygiene and Ecology	8,0	Dif.credit
CC 22	Propedeutics of Internal Medicine	6,0	Dif.credit
CC 23	Propedeutics of Pediatrics	5,0	Dif.credit
CC 24	General Surgery including	6,0	Dif.credit
	<i>CC 24.1 Operative Surgery</i>	1,0	Credit
CC 25	Clinical Anatomy	3,0	Dif.credit
CC 26	Radiology	4,0	Dif.credit
CC 27	Internal Medicine (<i>with Endocrinology</i>), including	8,0	<i>Credit / Exam</i>
	<i>CC 27.1 Endocrinology</i>	2,0	Credit
CC 28	Internal Medicine (<i>with Clinical Pharmacology, Clinical Immunology and Allergology, Occupational Diseases</i>)	9,0	Dif.credit
	<i>CC 28.1 Clinical Pharmacology</i>	1,0	Credit
	<i>CC 28.2 Clinical Immunology and Allergology</i>	1,5	Credit
	<i>CC 28.3 Occupational Diseases</i>	1,5	Credit
CC 29	Pediatrics	4,0	<i>Credit / Exam</i>
CC 30	Pediatrics (<i>with Pediatric Infections, Neonatology, Medical Genetics</i>)	6,0	Dif.credit
	<i>CC 30.1 Pediatric Infections</i>	1,5	Credit
	<i>CC 31.2 Neonatology</i>	1,5	Credit
	<i>CC 31.3 Medical Genetics</i>	1,0	Credit
CC 31	Surgery	4,0	<i>Credit / Exam</i>
CC 32	Surgery (<i>with Pediatric Surgery, Neurosurgery, Vascular Surgery</i>)	7,0	Dif.credit
	<i>CC 32.1 Pediatric Surgery</i>	1,5	Dif.credit
	<i>CC 32.2 Neurosurgery</i>	1,5	Dif.credit
	<i>CC 32.3 Vascular Surgery</i>	1,5	Dif.credit
CC 33	Obstetrics and Gynecology	7,0	Dif.credit
CC 34	Social Medicine and Public Health, including	7,0	Dif.credit
	<i>CC 34.1 Biostatistics. Statistic Methods in Medicine</i>	1,0	<i>Credit</i>
CC 35	Urology	3,0	Dif.credit
CC 36	Otorhinolaryngology	3,0	Dif.credit
CC 37	Ophthalmology	3,0	Dif.credit
CC 38	Neurology	4,0	Dif.credit
CC 39	Psychiatry, Narcology	3,0	Dif.credit
CC 40	Dermatology, Venereology	3,0	Dif.credit
CC 41	Physical Rehabilitation. Sports Medicine	3,0	Credit
CC 42	Forensic Medicine and Medical Law of Ukraine	3,0	Dif.credit
CC42(f)	<i>Forensic Medicine and Fundamentals of Medical Law (for foreign students)</i>		
CC 43	Infectious Diseases	3,5	Dif.credit
CC 44	Epidemiology and Principles of Evidence-Based Medicine	3,0	Dif.credit
CC 45	Oncology and Radiation Medicine	2,5	Dif.credit
CC 46	Traumatology and Orthopedics	3,0	Dif.credit
CC 47	Anesthesiology and Intensive Therapy	3,0	Dif.credit
CC 48	Phthysiology	2,0	Dif.credit
CC 49	General Practice (Family Medicine)	2,0	Dif.credit
CC 50	Military-Oriented Medical Training, including	10,0	

	<i>CC 50.1 Military Therapy</i>	2,0	<i>Credit</i>
	<i>CC 50.2 Military Surgery</i>	2,0	<i>Credit</i>
	<i>CC 50.3 Military Hygiene</i>	1,0	<i>Credit</i>
	<i>CC 50.4 Civil Defence</i>	1,0	<i>Credit</i>
	<i>CC 50.5 Emergency Medicine</i>	2,0	<i>Credit</i>
	<i>CC 51.6 Emergency and Urgent Medical Care</i>	2,0	<i>Credit</i>
Total		163	
Practical Training			
CC 51	Patients' Care (practice)	5,0	Dif.credit
CC 52	Nursing Practice	3,0	Dif.credit
CC 53	Medical Practical Training (professional training at the in-patient hospital)	5,0	Dif.credit
CC 54	Medical Practical Training (professional training at the polyclinics, out-patient hospital)	5,0	Dif.credit
Total		18	
Total amount of compulsory components of Professional Training		181	
TOTAL AMOUNT OF COMPULSORY COMPONENTS		270	
EPP Elective Components (EC)			
Elective Components (EC) – 1st year – (10 credits)			
Elective Block 1.1 (2 disciplines from a block)			
EC 1.1	History of Medicine	2,5	Credit
EC 1.2	History of the World's Culture	2,5	Credit
EC 1.3	Sociology and Medical Sociology	2,5	Credit
EC 1.4	Effective communication as an indicator of quality interaction between a doctor and a patient	2,5	Credit
EC 1.5	European Standard of Computer Competency	2,5	Credit
Elective Block 1.2 (2 disciplines from a block)			
EC 1.6	Ethics and Deontology in Medicine	2,5	Credit
EC 1.7	Basics of Psychology	2,5	Credit
EC 1.8	Bases of Healthy Lifestyle	2,5	Credit
EC 1.9	Bases of Economic Theories	2,5	Credit
EC 1.10	Aesthetics and Theory of Art	2,5	Credit
	Total	10	
Elective Components (EC) – 2nd year – (6 credits)			
Elective Block 2.1 (1 discipline from a block)			
EC 2.1	Logics. Formal Logics	2,0	Credit
EC 2.2	Public Speaking: How to become a Successful Speaker	2,0	Credit
EC 2.3	<i>Practice of Sociocultural Communication in Ukrainian (f) (for foreign students)</i>	2,0	Credit
EC 2.4	Methodology and Technology of Student's Research Work	2,0	Credit
EC 2.5	Fundamentals of Addiction Prevention	2,0	Credit
Elective Block 2.2 (1 discipline from a block)			
EC 2.6	Human Embryology	2,0	Credit
EC 2.7	Radiation Anatomy	2,0	Credit
Block 2.3 (1 discipline from a block)			
EC 2.8	Biochemistry of nutrition	2,0	Credit
EC 2.9	Neurophysiology	2,0	Credit

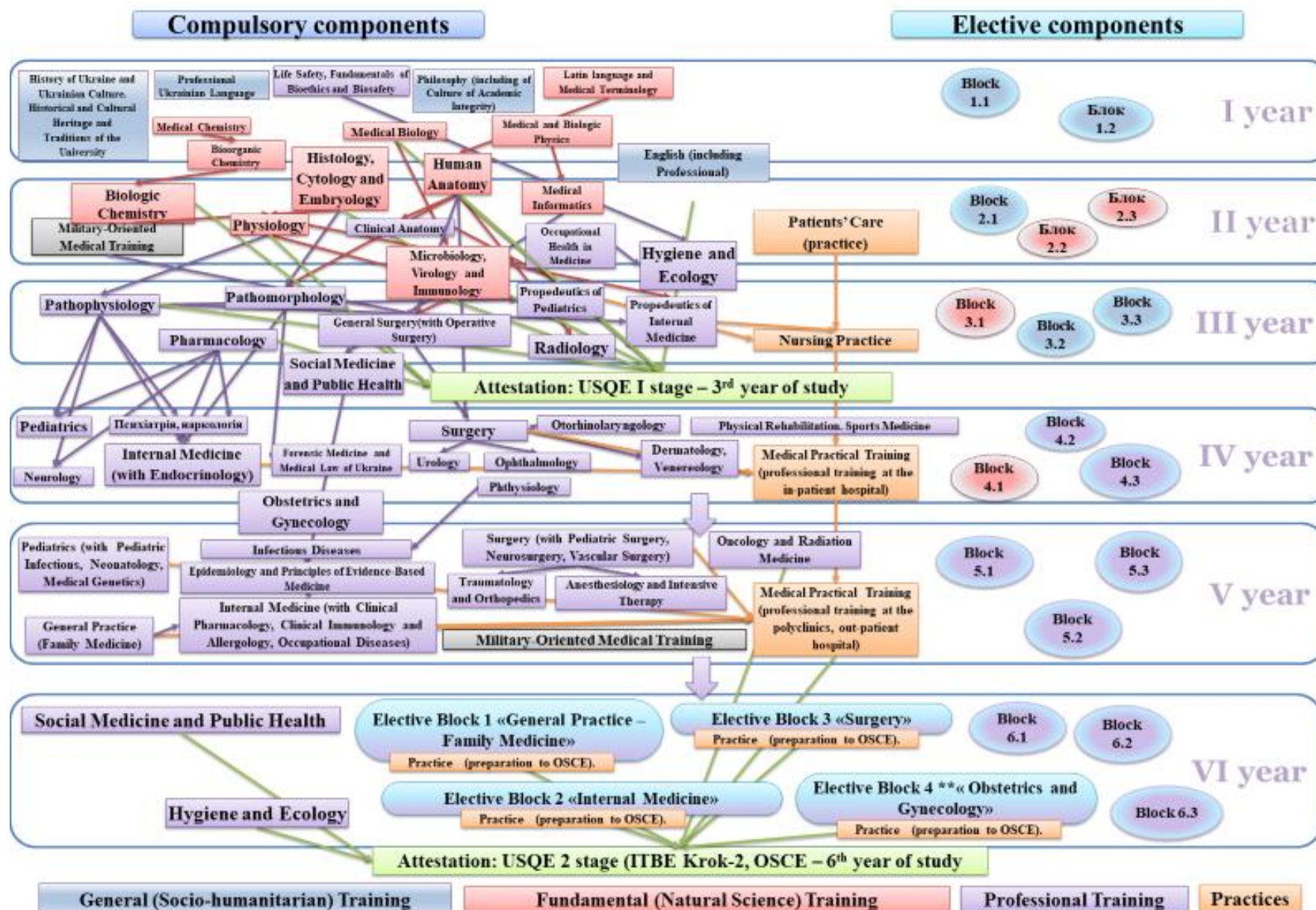
EC 2.10	Modern Issues of Molecular Biology	2,0	Credit
	Total	6,0	
Elective Components (EC) – 3rd year – (6 credits)			
Elective Block 3.1 (1 discipline from a block)			
EC 3.1	Biochemistry of inflammation and Immune System	2,0	Credit
EC 3.2	Infectious immunology	2,0	Credit
EC 3.3	Immunobiologic Preparations	2,0	Credit
Block 3.2 (1 discipline from a block)			
EC 3.4	Economics of Public Health. Marketing of Medical Services.	2,0	Credit
EC 3.5	Fundamentals of Pharmacokinetics and Pharmacodynamics of Drugs	2,0	Credit
EC 3.6	Psychohygiene and Essential Issues of University Hygiene	2,0	Credit
Block 3.3 (1 discipline from a block)			
EC 3.7	Medical Psychology	2,0	Credit
EC 3.8	Medical English	2,0	Credit
EC 3.9 (i)	<i>Practice of Professional Ukrainian Language Communication (for foreign students)</i>	2,0	Credit
	Total	6,0	
Elective Components (EC) – 4th year – (6 credits)			
Elective Block 4.1 (1 discipline from a block)			
EC 4.1	Selected Issues of Modern Pediatrics	2,0	Credit
EC 4.2	Drugs Side Effects	2,0	Credit
EC 4.3	Drug Interactions at the Stages of Pharmacokinetics	2,0	Credit
Block 4.2 (1 discipline from a block)			
EC 4.4	Foundations of Manual Therapy and Massage	2,0	Credit
EC 4.5	Physiotherapeutic Agents in Medical Rehabilitation	2,0	Credit
EC 4.6	Current Issues of Dietology and Nutritiology	2,0	Credit
Block 4.3 (1 discipline from a block)			
EC 4.7	Selected Issues of Clinical Nephrology	2,0	Credit
EC 4.8	Endoscopic Methods in Gynecology	2,0	Credit
EC 4.9	Microbiological Bases of Antibacterial Therapy	2,0	Credit
	Total	6,0	
Elective Components (EC) – 5th year – (6 credits)			
Elective Block 5.1 (1 discipline from a block)			
EC 5.1	Clinical Arthrology	2,0	Credit
EC 5.2	Clinical Vertebrology	2,0	Credit
EC 5.3	Clinical Electrocardiography	2,0	Credit
EC 5.4	Emergencies in Cardiology	2,0	Credit
EC 5.5	Modern Treatment & Prevention Strategies in Virus-Associated Pandemics	2,0	Credit
EC 5.6 (i)	<i>Clinical Parasitology and Tropical Medicine (for foreign students)</i>	2,0	Credit
Block 5.2 (1 discipline from a block)			
EC 5.7	Differential Diagnostics of ANCA-associated Vasculites	2,0	Credit
EC 5.8	Biopsy and Sectional Course	2,0	Credit

EC 5.9	Protection of the Rights and Interests of Medical and Pharmaceutical Workers. Legal Responsibility in the Field of Professional Activity	2,0	Credit
EC 5.10	Assistance to the Injured at the Pre-Hospital Stage	2,0	Credit
EC 5.11	Organization of Emergencies Consequences Elimination Work	2,0	Credit
EC 5.12	Minor Invasion Technologies in Surgery	2,0	Credit
Block 5.3 (1 discipline from a block)			
EC 5.13	USD in Obstetrics and Gynecology	2,0	Credit
EC 5.14	Premature Baby: Problems of Care and Treatment	2,0	Credit
EC 5.15	Orphan Diseases in Pediatrics	2,0	Credit
EC 5.16	Selected Issues of Pediatric Cardiology	2,0	Credit
	Total	6,0	
Elective Components (EC) – 6th year – (6 credits)			
Block 6.1 (1 discipline from a block)			
EC 6.1	Clinical Biochemistry (Selected Issues)	2,0	Credit
EC 6.2	Clinical Pharmacology in Cardiology	2,0	Credit
EC 6.3	Pharmacotherapy in Ophthalmology	2,0	Credit
EC 6.4	Non-drug Methods of Treatment and Rehabilitation	2,0	Credit
Block 6.2 (1 discipline from a block)			
EC 6.5	Modern Strategies of Operative Surgery	2,0	Credit
EC 6.6	Practical Course of Forensic Histology	2,0	Credit
EC 6.7	Modern Approaches to Mini-Invasive Treatment in Planned and Urgent Pediatric Surgery	2,0	Credit
EC 6.8	Fundamentals of Phlebology	2,0	Credit
EC 6.9	Fundamentals of Cardiosurgery	2,0	Credit
Block 6.3 (1 discipline from a block)			
EC 6.10	Pediatric and Adolescent Gynecology	2,0	Credit
EC 6.11	Fundamentals of Pediatric Oncogynecology	2,0	Credit
EC 6.12	Legal Principles of Creation and Management of Private Medical Business	2,0	Credit
EC 6.13	Clinical Research	2,0	Credit
	Total	6,0	
Elective Blocks of Professional Profiling – 6 year (1 EB - 50 credits)			
Elective Block 1** «General Practice – Family Medicine»			
EB 1.1	General Practice (Family Medicine). Practice (preparation to OSCE).	5,5	Dif.credit
EB 1.2	Palliative and Hospice Medicine	3,0	Credit
EB 1.3	Internal Medicine. Practice (preparation to OSCE). Including	17,0	
	<i>EB 1.3.1 Internal Medicine</i>	11,5	Dif.credit
	<i>EB 1.3.2 Infectious Diseases</i>	3,5	Credit
	<i>EB 1.3.3 Phthysiology</i>	1,0	Credit
	<i>EB 1.3.4 Modern Diabetology. Emergencies in Endocrinology</i>	1,0	Credit
EB 1.4	Pediatrics Including Pediatric Infectious Diseases in General Practice. Practice (preparation to OSCE).	10,5	Dif.credit

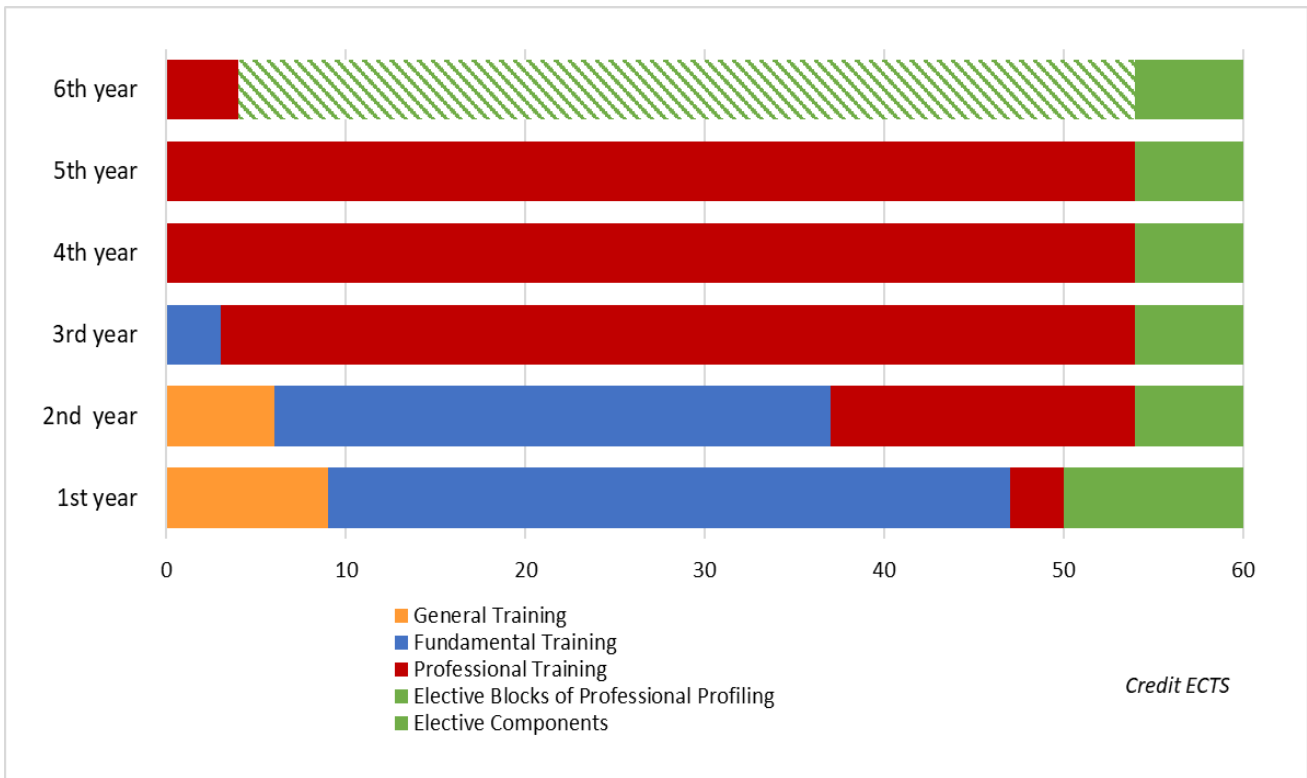
EB 1.5	Surgery, Including Pediatric Surgery in General Practice. Practice (preparation to OSCE).	8,0	Dif.credit
EB 1.6	Obstetrics and Gynecology in General Practice. Practice (preparation to OSCE).	4,0	Dif.credit
EB 1.7	Endoscopic Technologies in Diagnostics and Treatment of Internal Organs Diseases.	2,0	Credit
	Total	50	
Elective Block 2** «Internal Medicine»			
EB 2.1	Internal Medicine. Practice (preparation to OSCE).	22,0	
	<i>EB 2.1.1 Modern Practice of Internal Medicine</i>	7,0	Dif.credit
	<i>EB 2.1.2 Instrumental Examination Methods in Modern Cardiology Practice</i>	3,5	Credit
	<i>EB 2.1.3 Management of Patients after Cardiology Surgery</i>	3,0	Credit
	<i>EB 2.1.4 Emergencies in the Clinic of Internal Medicine</i>	2,0	Credit
	<i>EB 2.1.5 Modern Diabetology. Emergencies in Endocrinology</i>	1,0	Credit
	<i>EB 2.1.6 Infectious Diseases</i>	4,5	Credit
	<i>EB 2.1.7 Phthysiology</i>	1,0	Credit
EB 2.2	Pediatrics Including Pediatric Infectious Diseases . Practice (preparation to OSCE).	10,5	Dif.credit
EB 2.3	Surgery, Including Pediatric Surgery. Practice (preparation to OSCE).	8,0	Dif.credit
EB 2.4	Obstetrics and Gynecology. Practice (preparation to OSCE).	4,0	Dif.credit
EB 2.5	General Practice (Family Medicine). Practice (preparation to OSCE).	3,5	Dif.credit
EB 2.6	Endoscopic Technologies in Diagnostics and Treatment of Internal Organs Diseases	2,0	Credit
	Total	50	
Elective Block 3** «Surgery»			
EB 3.1	Surgery. Practice (preparation to OSCE). <i>Including</i>	12,0	
	<i>BB 3.1.1 Symptoms and Syndromes in Surgery</i>	3,0	Dif.credit
	<i>BB 3.1.2 Cardio-Vascular Surgery</i>	1,5	Credit
	<i>BB 3.1.3 Traumatology</i>	1,5	Credit
	<i>BB 3.1.4 Emergencies in Surgery</i>	1,5	Credit
	<i>BB 3.1.5 Mini-Invasive Treatment in Planned and Urgent Pediatric Surgery</i>	1,5	Credit
	<i>BB 3.1.6 Malformations in Children</i>	1,5	Credit
	<i>BB 3.1.7 Clinical Oncology</i>	1,5	Credit
EB 3.2	Internal Medicine. Practice (preparation to OSCE). Including	17,0	
	<i>BB 3.2.1 Internal Medicine</i>	11,5	Dif.credit
	<i>BB 3.2.2 Infectious Diseases</i>	3,5	Credit
	<i>BB 3.2.3 Phthysiology</i>	1,0	Credit
	<i>BB 3.2.4 Emergency Endocrinology</i>	1,0	Credit
EB 3.3	Pediatrics Including Pediatric Infectious Diseases . Practice (preparation to OSCE).	9,0	Dif.credit
EB 3.4	Obstetrics and Gynecology. Practice (preparation to OSCE).	5,0	Dif.credit

EB 3.5	General Practice (Family Medicine). Practice (preparation to OSCE).	3,5	Dif.credit
EB 3.6	Clinic Microbiology	1,5	Credit
EB 3.7	Endoscopic Surgery	2,0	Credit
	Total	50	
Elective Block 4 **« Obstetrics and Gynecology »			
EB 4.1	Obstetrics and Gynecology. Practice (preparation to OSCE). <i>Including</i>	7,0	
	<i>BB 4.1.1 Modern Practice in Obstetrics and Gynecology, Operative Obsterics</i>	3,0	Dif.credit
	<i>BB 4.1.2 Clinical Mammology</i>	1,0	Credit
	<i>BB 4.1.3 Pediatric and Adolescent Gynecology</i>	1,0	Credit
	<i>BB 4.1.4 Esthetic Gynecology</i>	1,0	Credit
	<i>BB 4.1.5 Oncogynecology</i>	1,0	Credit
EB 4.2	Modern Strategies of Urgent Medical Care	2,0	Credit
EB 4.3	Internal Medicine. Practice (preparation to OSCE). <i>Including</i>	17,0	
	<i>EB 4.3.1 Internal Medicine</i>	11,5	Dif.credit
	<i>EB 4.3.2 Infectious Diseases</i>	3,5	Credit
	<i>EB 4.3.3 Phthysiology</i>	1,0	Credit
	<i>EB 4.3.4 Emergency Endocrinology</i>	1,0	Credit
EB 4.4	Pediatrics Including Pediatric Infectious Diseases . Practice (preparation to OSCE).	10,5	Dif.credit
EB 4.5	Surgery, Including Pediatric Surgery. Practice (preparation to OSCE).	8,0	Dif.credit
EB 4.6	General Practice (Family Medicine). Practice (preparation to OSCE).	3,5	Dif.credit
EB 4.7	Endoscopic Surgery	2,0	Credit
	Total	50	
<i>Total amount of Elective Components (EC) and blocks (EB):</i>		90,0	
ADDITIONAL EXTRACREDIT COMPONENTS			
AC 1	Physical Education	320 hours	Credit
AC 2	Attestation		OSCE
TOTAL AMOUNT OF EDUCATIVE PROGRAM		360	

2.2 Structural Logic Scheme of EPP «Medicine»



2.3 Scheme of Credit Load Distribution according to Training Cycles of EPP «Medicine»



Notes:

1. The distribution of cycles of general, fundamental, professional training (main components) credits by years of study is shown
2. Elective component of 1-5 years of study includes educational components (EC) of general, fundamental and professional orientation
3. Elective component of 6th year of study is represented by educational components of exclusively professional training (EC and professional orientation EB).

APPENDIX 1
LIST 1 (syndromes and symptoms)

1. amenorhea	39. external bleeding
2. acromegaly	40. internal bleeding
3. anemic syndrome	41. hemoptysis
4. anuria and oliguria	42. lactorrhea
5. arterial hypertension	43. lymphadenopathy
6. arterial hypotension	44. meningeal syndrome
7. chest pain	45. uterine bleeding
8. abdominal pain	46. edema syndrome
9. pain in extremities and back	47. obesity (+ body weight)
10. pain in the perineum	48. paresis, paralysis
11. sore throat	49. premature sexual development
12. vomiting	50. tubular bones fractures
13. bronchoobstructive syndrome	51. tension pneumothorax (closed)
14. bulbar syndrome	52. relaxed pneumothorax (open)
15. exudate into the pleural cavity	53. valvular pneumothorax
16. hallucinatory - paranoid syndrome	54. polyuria
17. fever	55. portal hypertension
18. hemorrhagic syndrome	56. speech disorders (aphasia)
19. hypoglycemia	57. violation of heart rhythm and conduction
20. hyperglycemia	58. sudden cardiac arrest
21. exanthema, enanthema	59. disorders of consciousness
22. hepatomegaly and hepatolienal syndrome	60. itchy skin
23. headache	61. urinary syndrome
24. dysuria	62. dementia syndrome
25. dysminorrhea	63. dehydration syndrome
26. dyspepsia	64. digestive insufficiency syndrome
27. dysgaphy	65. thirst
28. diarrhea	66. stridor
29. jaundice	67. joint syndrome
30. shortness of breath	68. convulsions
31. asphyxia	69. weight loss
32. constipation	70. cyanosis
33. dizziness	71. partial or complete loss of vision
34. child growth retardation	72. partial or complete hearing loss
35. cardiomegaly	73. gastrointestinal bleeding
36. cough	
37. intestinal obstruction	
38. coma	

List 2 (diseases)

I. Diseases of blood and blood-forming organs, disorders involving the immune mechanism:

1. Anemias;
2. Hemolytic disease of newborns;
3. Hemophilia;
4. Leukemia;
5. Lymphomas;
6. Congenital (Bruton's disease, Viscott-Aldridge syndrome) and acquired immunodeficiency states;
7. Sepsis of newborns;
8. Surgical sepsis;
9. Idiopathic thrombocytopenic purpura;
10. Chronic radiation injuries.

II. Mental and behavioral disorders:

11. Bipolar affective disorder;
12. Acute psychosis, including alcoholic delirium;
13. Epilepsy;
14. Neurotic disorders;
15. Personality disorders;
16. Schizophrenia;

III. Diseases of nervous system:

17. Intracranial trauma;
18. Meningitis, encephalitis;
19. Migraine and other types of headaches;
20. Perinatal encephalopathy;
21. Disorders of vegetative nervous system;
22. Cerebral circulatory disorders;
23. Vertebrogenic diseases of the nervous system, neuropathy and polyneuropathy;
24. Multiple sclerosis;
25. Chronic occupational injuries (vibration disease, occupational dyskinesias);
26. strokes (ischemic, hemorrhagic);

Eye diseases:

27. Blepharitis;
28. Acute glaucoma attack;
29. Conjunctivitis;
30. Foreign body of the eye;
31. Eye injuries;
32. Retinopathy;
33. exophthalmos

Diseases of the throat, ears, nose:

34. Laryngitis;
35. Otitis;
36. Peritonsillar abscess;
37. Sinusitis;
38. Tonsillitis;

39. Throat, ear, nose traumas

IV. Diseases of the cardiovascular system:

40. Aortic aneurysms;
41. Atherosclerosis;
42. Varicose veins of lower extremities;
43. Congenital heart disease;
44. Secondary arterial hypertension;
45. Acute occlusion of the main and peripheral arteries;
46. Endocarditis;
47. Essential and secondary arterial hypertension;
48. Ischemic heart disease;
49. Carditis;
50. Cardiomyopathy;
51. Pulmonary heart;
52. Acquired heart defects;
53. Obliterating endarteritis;
54. Pericarditis;
55. Disturbance of heart rhythm and conduction;
56. Heart failure;
57. Injuries to the heart and blood vessels;
58. Pulmonary artery thromboembolism;
59. Phlebitis, thrombophlebitis.

V. Respiratory and mediastinal diseases:

60. Asphyxia;
61. Bronchial asthma;
62. Bronchitis;
63. Bronchiectasis;
64. Broncho - pulmonary dysplasia;
65. Congenital malformations of respiratory system;
66. acute respiratory distress syndrome
67. Respiratory failure;
68. Infectious - destructive lung diseases;
69. Pulmonary insufficiency;
70. Mediastinitis;
71. Mucoviscidosis;
72. Neoplasms of the lungs and mediastinum;
73. Pleurisy;
74. Pneumoconiosis;
75. Pneumonia;
76. Pneumothorax;
77. Respiratory distress - syndrome and pneumonia of newborns;
78. Foreign body in the respiratory tract;
79. Chest injuries (superficial, open);

80. Chronic obstructive pulmonary disease;

VI. Digestive diseases:

- 81. Prolapse of rectum;
- 82. Peptic ulcer disease;
- 83. Congenital malformations of the digestive system;
- 84. Gastroesophageal reflux disease, esophagitis;
- 85. Gastritis, duodenitis;
- 86. Acute and chronic hepatitis;
- 87. Acute intestinal obstruction;
- 88. Acute and chronic appendicitis;
- 89. Acute and chronic pancreatitis;
- 90. Benign diseases of the esophagus;
- 91. Enteritis, colitis;
- 92. Inflammatory diseases of rectum and perianal area;
- 93. Strangulated and slip abdominal hernias
- 94. Neoplasms of esophagus, stomach, colon, liver and pancreas;
- 95. Peptic ulcers of the stomach and duodenum;
- 96. Peritonitis;
- 97. Perforation of a hollow organ;
- 98. Hepatic failure;
- 99. Malabsorption syndrome;
- 100. Stenosis of pylorus of stomach;
- 101. Abdominal injuries (superficial, open);
- 102. Functional gastrointestinal disorders;
- 103. Diseases of the operated stomach;
- 104. Cholecystitis, cholangitis, gallstone disease, choledocholithiasis;
- 105. Cirrhosis of the liver;
- 106. Gastrointestinal bleeding;

VII. Diseases of the genitourinary system:

- 107. Amyloidosis of the kidneys;
- 108. Balanitis, balanoposthitis;
- 109. Congenital malformations of the urinary system;
- 110. Glomerulonephritis;
- 111. Dysmetabolic nephropathy;
- 112. Nephrotic syndrome;
- 113. Neoplasms of the kidney, urinary tract and prostate;
- 114. Pyelonephritis;
- 115. Prostatitis;
- 116. Urolithiasis;
- 117. Tubulointerstitial nephritis;
- 118. Urethritis;
- 119. Chronic kidney disease;

120. Cystitis

VIII. Diseases of the skin and subcutaneous tissue:

- 121. Allergodermatoses (dermatitis, toxicoderma, eczema);
- 122. Bacterial diseases of the skin and subcutaneous tissue, pyoderma;
- 123. Purulent - inflammatory diseases of the fingers and hands;
- 124. Purulent - inflammatory diseases in newborns;
- 125. Mycoses;
- 126. Burns and frostbite;
- 127. Parasitic skin diseases (scabies, lice)
- 128. Psoriasis;
- 129. Vesicular dermatoses;
- 130. Specific surgical infection (anaerobic clostridial and non-clostridial);

IX. Diseases - musculoskeletal system and connective tissue:

- 131. Ankylosing spondylitis;
- 132. Congenital and acquired malformations of the musculoskeletal system;
- 133. Acute rheumatic fever;
- 134. Dermatomyositis and topolymyositis;
- 135. Neoplasms of the musculoskeletal system;
- 136. Osteoarthritis;
- 137. Osteomyelitis;
- 138. Gout;
- 139. Polytrauma;
- 140. Reactive arthritis;
- 141. Rheumatoid arthritis;
- 142. Systemic sclerodermia;
- 143. Systemic lupus erythematosus;
- 144. Systemic vasculitis (nodular polyarteritis, hemorrhagic vasculitis, hypersensitive vasculitis);
- 145. Typical fractures of the bones of the shoulder, forearm, hand, thigh, leg, foot;
- 146. Pelvic injury;
- 147. Spinal cord injury;
- 148. Injury to large joints (hip, knee, shin - foot, elbow);
- 149. Chronic rheumatic disease;
- 150. Juvenile rheumatoid arthritis.

X. Diseases of the endocrine system, eating disorders and metabolic disorders:

151. Acromegaly and Thymus hyperplasia;
152. Hypothyroidism;
153. Malnutrition, protein - energy deficiency;
154. Pituitary dwarfism;
155. Diffuse toxic goiter;
156. Iodine deficiency diseases of the thyroid gland;
157. Diabetes insipidus;
158. Neoplasms of the thyroid gland;
159. Obesity;
160. Congenital dysfunction of the adrenal cortex;
161. disorders of calcium-phosphorus metabolism, vitamin D metabolism
162. genetic syndromes with endocrine complications: Turner syndrome, Russell-Silver syndrome, Prader-Willi, Laron, etc.)
163. Thyroiditis
164. Cushing's disease and syndrome;
165. Chronic insufficiency of adrenal glands;
166. Diabetes mellitus
167. Hypoparathyroidism
168. Hyperparathyroidism
169. adrenal glands neoplasms
170. organic (including congenital) hyperinsulinism
171. neuro-endocrine tumors
172. pituitary tumors
173. premature sexual development
174. hypogonadism
175. cryptorchidism
176. violation of sex differentiation
177. Klinefelter's syndrome
178. dwarfism in a SGA born child

XI. Infectious and parasitic diseases:

179. Bacterial food poisoning;
180. Erysipelas;
181. Botulism;
182. Viral Hepatitis;
183. Chickenpox;
184. Congenital infections of the newborn;
185. Helminthiasis;
186. Herpesvirus diseases;
187. Influenza and other acute respiratory viral infections;
188. Diphtheria;
189. Infectious mononucleosis;

190. Candidiasis;
191. Whooping cough;
192. Intestinal bacterial infections;
193. Intestinal viral infections;
194. Measles;
195. Eick-borne viral encephalitis;
196. Rubella;
197. Leptospirosis;
198. Malaria;
199. Meningococcal infection;
200. Particularly dangerous viral infections;
201. Mumps infection;
202. Poliomyelitis;
203. Tetanus;
204. Protozoan infections;
205. Rickettsiosis;
206. Anthrax;
207. Rabies;
208. Scarlet fever;
209. Tuberculosis of different localization;
210. Lyme disease;
211. Disease caused by human immunodeficiency virus (HIV);
212. Chlamydial infections;
213. Cholera;
214. Plague;

Infectious diseases transmitted mainly sexually:

215. Gonococcal infection;
216. Syphilis.

XII. Diseases of female reproductive system.

Pathologies of Pregnancy:

217. Multiply pregnancy;
218. Vomiting of pregnant women;
219. Pregnancy in extragenital pathology;
220. Fetus distress in pregnancy;
221. Fetal growth retardation;
222. Immune conflict during pregnancy;
223. Bubble drift;
224. placenta previa;
225. Premature placental abruption;
226. Premature birth and post-term pregnancy;
227. Ectopic pregnancy;
228. Preeclampsia and eclampsia;
229. Spontaneous abortion;

Pathology of childbirth and the postpartum period:

230. Abnormalities of labor;

- 231. Anomalies of the pelvis, incl.
Clinically narrow pelvis;
- 232. Fetal distress during childbirth;
- 233. Labor and postpartum bleeding;
- 234. Incorrect position and presentation of
the fetus;
- 235. Postpartum septic diseases;
- 236. Injuries of the uterus and birth canal.

Gynecological diseases:

- 237. Abnormal uterine bleeding;
- 238. Apoplexy of the ovary;
- 239. Infertility;

- 240. Congenital malformations of the
female genital organs;
- 241. Benign mammary dysplasia;
- 242. Benign and precancerous neoplasms
of female genital organs;
- 243. Endometriosis;
- 244. Inflammatory diseases of the female
genital organs;
- 245. Malignant neoplasms of the female
genital organs;
- 246. Mastitis;
- 247. Neoplasm of the mammary gland

List 3 (emergencies):

1. Asphyxia (including neonatal);
2. Hypertensive crisis
3. hypoglycemia (coma);
4. Acute respiratory failure;
5. Acute urinary retention;
6. Acute adrenal insufficiency;
7. Acute kidney damage;
8. Acute liver failure;
9. Acute heart failure;
10. Acute poisoning, including combat and poisonous substances;
11. Acute psychosis;
12. Acute coronary syndrome;
13. Acute radiation and chemical damage, including in field and emergencies;
14. Acute cerebral insufficiency;
15. diabetic coma, including ketoacidotic, hyperosmolar, lactic acidemic
16. Electrotrauma;
17. Status epilepticus;
18. Acute bleeding;
19. Acute blood loss syndrome, including in field and emergency conditions;
20. Cardiac arrest;
21. Collapse;
22. Disorders of consciousness and coma;
23. Renal colic;
24. Biliary colic;
25. Acute anaphylactic reactions;
26. Acute heart rhythm disorders;
27. Cold injury, incl. in field conditions;
28. Heat injury, incl. in field conditions;
29. venous and arterial thromboembolism
30. Convulsive syndrome;
31. Drowning;
32. Strangulation asphyxia;
33. Normal childbirth;
34. Shocks;
35. Bites of snakes, insects, animals;
36. Penetrating injuries, including during hostilities;
37. Burns, including in field conditions;
38. Foreign bodies of the respiratory tract; gastrointestinal tract, ENT - organs and eyes.

List 4 (Laboratory and instrumental examinations):

1. Analysis of pleural fluid;
2. Analysis of ascitic fluid;
3. Analysis of synovial fluid;
4. Urine analysis by Zymnysky;
5. Urine analysis by Nechiporenko;
6. Alpha-amylase activity in blood and urine, fecal elatase;
7. Blood proteins and their fractions, C - reactive protein;
8. Blood glucose, glycosylated hemoglobin;
9. Oral glucose tolerance test;
10. Lipids and lipoproteins of blood and their fractions;
11. Blood hormones;
12. Serum ferritin, iron and copper;
13. Creatinine, urea, blood and urine, glomerular filtration rate;
14. Blood electrolytes;
15. Blood aminotransferases;
16. Total blood bilirubin and its fractions;
17. Coagulogram;
18. Blood uric acid;
19. Alkaline blood phosphatase;
20. Histomorphological examination of lymph node biopsy;
21. Histomorphological examination of the biopsy of parenchymal organs;
22. Histomorphological examination of a biopsy of mucous membranes;
23. Histomorphological examination of muscle and skin biopsy;
24. histomorphological examination of the placenta
25. Study of the internal environment of premises (indicators of microclimate; natural and artificial lighting, bacteriological and chemical air pollution);
26. Study of the function of external respiration;
27. Standard ECG (in 12 leads);
28. Endoscopic examination of the bronchi;
29. Endoscopic examination of the digestive tract;
30. Echocardiography and dopplerography;
31. General analysis of feces;;
32. General blood test;
33. General analysis of urine;
34. sugar and acetone urinalysis
35. General analysis of cerebrospinal fluid;
36. General analysis of the sternal punctation;
37. General analysis of sputum;
38. General immunological profile of blood;
39. Serological reactions in infectious diseases;
40. Express - tests for viral diseases;
41. Amplification methods for infectious diseases (PCR, LLR);
42. Serological reactions in autoimmune diseases;
43. Chemical and bacteriological studies of the human environment (atmospheric air, water, soil);
44. Microbiological study of biological fluids and secretions;
45. Measurement of radiation (sound, vibration, ionizing), individual radiometry;
46. Methods of instrumental visualization of the thyroid gland;
47. X-ray contrast angiography;
48. Methods of instrumental visualization of abdominal organs;
49. Methods of instrumental visualization of the thoracic cavity;
50. Methods of instrumental visualization of the genitourinary system;
51. methods of instrumental visualization of fetus;
52. Methods of instrumental visualization of the skull, spine, spinal cord, bones and joints;
53. Methods of instrumental imaging of the breast;
54. Tuberculin diagnosis;
55. Multi-moment fractional study of bile and pH - metry of the stomach and esophagus;
56. Chemical, organoleptic, bacteriological research of food and drinking water;
57. Cytological examination of the cervix;
58. Measurement of ergonomic indicators of difficulty and intensity of work.

List 5 (medical manipulations):

1. To perform indirect heart massage;
2. To perform artificial respiration;
3. To carry out defibrillation using a manual automatic defibrillator - cardioverter;
4. To register a standard ECG in 12 leads;
5. To carry out a temporary stop of external bleeding;
6. To carry out primary surgical treatment of the wound, dressing, removal of skin sutures, including in field conditions;
7. To apply bandages, including in field conditions;
8. To install a nasogastric and orogastric tube;
9. To carry out transport immobilization;
10. To carry out the introduction of drugs (intravenous jet and drip, intraosseous), including in field conditions;
11. To provide peripheral venous access;
12. To measure blood pressure;
13. To restore airway patency;
14. To catheterize the bladder with a soft probe;
15. To perform nasal tamponade; to carry out clinical examination of vision and ENT organs;
16. To perform the technique of contact of the new-born "skin to skin" and early application to the breast;
17. To carry out a finger examination of the rectum and with the help of a rectal mirror;
18. To carry out a finger examination of the prostate;
19. To carry out a clinical examination of the mammary glands;
20. To perform a pleural puncture;
21. To perform a puncture of abdominal cavity through posterior arch
22. To determine blood type, rhesus affiliation;
23. To transfuse blood components and blood substitutes;
24. To conduct bimanual examination and examination of women in mirrors;
25. To perform pelviometry;
26. To carry out external (Leopold's receptions) and internal obstetric research;
27. To carry out auscultation of the fetus;
28. To take smears for bacterioscopic, bacteriological and cytological examinations.
29. To palpate the thyroid gland
30. To inspect and evaluate the external genitalia of boys
31. Assess the state of sexual development of children

Form of higher education applicants attestation

Attestation of graduates of the educational program (applicants for a Master's degree) in the specialty 222 "Medicine" in the field of knowledge 22 "Health Care" is conducted in the form of a Unified State Qualification Examination

Unified State Qualification Examination (USQE) is carried out according to the The Procedure for conducting a unified state qualification exam for applicants for a master's degree in the field of knowledge "Health Care", which is established by the Resolution № 334 of the Cabinet of Ministers of Ukraine dated 28.03.2018 "On adoption of the Unified State Qualification Exam Procedure for students enrolled in the Master's academic program and majoring in "22 Health Care" branch of knowledge (USQE stage 1, USQE stage 2, comprehensive practice-oriented exam) and ends with the issuance to a graduate a document of state standard about obtaining higher education master's degree with the qualification: "Master of Medicine".

Stages of Unified State Qualification Exam:

USQE stages	Forms of state attestation	Attestation is performed by
Stage 1 (3rd year of study, 6th semester)	Integrated Test-Based Exam Krok 1 (<i>assessment of professional competence level in general science (fundamental) subjects</i>)	The Testing Board at the Ministry of Health of Ukraine
	English Language Proficiency Test (<i>assessment of competence level in professional English</i>)	The Testing Board at the Ministry of Health of Ukraine
	International Foundations of Medicine Exam (<i>assessment of professional competence level in general science (fundamental) subjects</i>)	The Testing Board at the Ministry of Health of Ukraine in cooperation with a foreign agency to assess the quality of knowledge of applicants
Stage 2 (6th year of study, 12th semester)	Integrated Test-Based Exam Krok 2 (<i>assessment of professional competence level in professional (clinical) subjects</i>)	The Testing Board at the Ministry of Health of Ukraine
	International Foundations of Medicine Exam (<i>assessment of professional competence level in professional (clinical) subjects</i>)	The Testing Board at the Ministry of Health of Ukraine in cooperation with a foreign agency to assess the quality of knowledge of applicants
	Objective Structured Practical (Clinical) Exam (OSCE) (<i>assessment of the applicant's readiness for professional activity in accordance with the requirements of the higher education standard by demonstrating practical (clinical) components of professional competence on a real object or model</i>)	Higher Education Institution (Examination Board)

Attestation is carried out open and in public.

2.4 List of References

1. Law of Ukraine «On Higher Education» - <http://zakon4.rada.gov.ua/laws/show/1556-18>.
2. Law of Ukraine «On Education» - <http://zakon5.rada.gov.ua/laws/show/2145-19>.
3. National Classifier of Ukraine: Profession Classifier SC 003:2010. – <https://zakon.rada.gov.ua/rada/show/va327609-10>
4. National Qualification Frame, 2011 – <http://zakon4.rada.gov.ua/laws/show/1341-2011-п>.
5. List of branches of knowledge and specialties in which higher education students are trained 2015 – <http://zakon4.rada.gov.ua/laws/show/266-2015-п>.
6. Resolution of the Cabinet of Ministers of Ukraine on December 28, 2020 № 1337 "Regulations on the organization of the educational process in health care institutions with the participation of scientific and pedagogical staff of higher education institutions training higher education in the field of health care" - <https://zakon.rada.gov.ua/laws/show/1337-2020-п#Text>.
7. Order of the Cabinet of Ministers of Ukraine of February 29, 2019 № 95-r "Strategy for the development of medical education in Ukraine" - <https://zakon.rada.gov.ua/laws/show/95-2019-п#n8>.
8. Standard of higher education of the second (master's) level, field of knowledge 22 Healthcare, specialty 222 Medicine. Approved and put into effect by order № 1197 of the Ministry of Education and Science of Ukraine on 08.11.2021.

Matrix of correspondence of program competences to main components of educational professional program (continuation)

	CC 50.1	CC 50.2	CC 50.3	CC 50.4	CC 50.5	CC 50.6	CC 51	CC 52	CC 53	CC 54	AC 1
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	•	•		•	•	•	•	•	•	•	
SC 1	•	•			•	•	•	•	•	•	
SC 2	•	•	•			•		•	•	•	
SC 3	•	•	•			•		•	•	•	
SC 4	•						•	•	•	•	
SC 5	•	•					•	•	•	•	
SC 6	•	•					•	•	•	•	•
SC 7	•	•			•	•	•		•	•	•
SC 8	•	•			•	•	•		•	•	
SC 9	•	•	•	•	•	•		•			•
SC 10	•	•			•	•			•	•	•
SC 11	•	•		•	•	•			•	•	•
SC 12								•	•	•	•
SC 13	•		•	•	•	•	•				•
SC 14			•	•	•	•	•			•	
SC 15	•										
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Matrix of program learning outcomes (PLO) providing by main components of educational professional program

	CC 1	CC 1f	CC 2	CC 2f	CC 3	CC 3.1	CC 4	CC 5	CC 6	CC 7	CC 8	CC 9	CC 10	CC 11	CC 12	CC 13	CC 14	CC 15	CC 16	CC 17	CC 18	CC 19	CC 20	CC 21	CC 22	CC 23	CC 24	CC 24.1	CC 25	CC 26	CC 27	CC 27.1		
PLO 1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
PLO 2								•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
PLO 3					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	
PLO 4									•						•							•	•		•	•	•	•			•	•	•	
PLO 5												•	•	•	•										•	•	•	•			•	•	•	
PLO 6													•	•	•												•	•				•	•	
PLO 7												•	•	•	•	•									•	•	•	•			•	•	•	
PLO 8															•											•	•	•	•	•	•	•	•	•
PLO 9													•	•	•									•				•	•	•		•	•	
PLO 10															•										•			•				•	•	
PLO 11													•	•	•												•							
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PLO 29														•											•			•						

Matrix of program learning outcomes (PLO) providing by main components of educational professional program (continuation)

	CC 50.1	CC 50.2	CC 50.3	CC 50.4	CC 50.5	CC 50.6	CC 51	CC 52	CC 53	CC 54	AC 1
PLO 1	•	•	•	•	•	•	•	•	•	•	•
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PLO 8	•	•			•	•	•	•	•	•	•
PLO 9	•	•					•		•	•	
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Matrix of program learning outcomes (PLO) providing by corresponding components of educational professional program (continuation)

	EC 1.1	EC 1.2	EC 1.3	EC 1.4	EC 1.5	EC 1.6	EC 1.7	EC 1.8	EC 1.9	EC 1.10	EC 2.1	EC 2.2	EC 2.3i	EC 2.4	EC 2.5	EC 2.6	EC 2.7	EC 2.8	EC 2.9	EC 2.10	EC 3.1	EC 3.2	EC 3.3	EC 3.4	EC 3.5	EC 3.6	EC 3.7	EC 3.8	EC 3.9f	EC 4.1	EC 4.2	EC 4.3	EC 4.4	EC 4.5	EC 4.6				
PLO 1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
PLO 2	•				•		•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
PLO 3	•		•		•	•		•	•		•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
PLO 4															•	•						•	•				•			•	•	•	•	•	•	•	•		
PLO 5					•	•		•							•	•	•				•	•	•				•			•	•	•	•	•	•	•	•		
PLO 6					•	•					•				•	•						•	•					•			•	•	•	•	•	•	•		
PLO 7					•										•	•	•				•	•	•							•	•	•	•	•	•	•	•		
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PLO 9					•	•									•	•						•	•			•				•	•	•	•	•	•	•	•	•	
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PLO 29					•																		•														•	•	•

Matrix of program learning outcomes (PLO) providing by corresponding components of educational professional program (continuation)

	EC 4.7	EC 4.8	EC 4.9	EC 5.1	EC 5.2	EC 5.3	EC 5.4	EC 5.5	EC 5.6f	EC 5.7	EC 5.8	EC 5.9	EC 5.10	EC 5.11	EC 5.12	EC 5.13	EC 5.14	EC 5.15	EC 5.16	EC 6.1	EC 6.2	EC 6.3	EC 6.4	EC 6.5	EC 6.6	EC 6.7	EC 6.8	EC 6.9	EC 6.10	EC 6.11	EC 6.12	EC 6.13			
PLO 1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
PLO 2	•		•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•	•	•		
PLO 3	•	•	•	•	•	•	•	•	•	•	•		•	•	•			•	•	•	•		•		•		•	•	•	•	•	•	•		
PLO 4	•	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•		•	•	•		•	•	•	•	•	•	•	•	•		
PLO 5	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•		
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PLO 7	•	•	•	•	•	•	•	•	•	•	•				•		•	•	•	•	•		•	•			•	•	•	•	•	•	•		
PLO 8	•	•		•	•	•	•	•	•	•	•		•	•	•		•	•	•				•	•	•	•	•	•	•	•	•	•	•		
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PLO 28	•			•	•		•	•	•	•								•	•					•							•			•	•
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Matrix of program learning outcomes (PLO) providing by corresponding components of educational professional program (continuation)

	EB 1.1	EB 1.2	EB 1.3	EB 1.4	EB 1.5	EB 1.6	EB 1.7	EB 2.1	EB 2.2	EB 2.3	EB 2.4	EB 2.5	EB 2.6	EB 3.1	EB 3.2	EB 3.3	EB 3.4	EB 3.5	EB 3.6	EB 3.7	EB 4.1	EB 4.2	EB 4.3	EB 4.4	EB 4.5	EB 4.6	EB 4.7
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PLO 2	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PLO 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PLO 4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PLO 5	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PLO 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PLO 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PLO 8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PLO 9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PLO 10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•
PLO 11	•	•		•		•			•		•	•				•	•	•			•			•		•	
PLO 12	•	•		•					•		•	•				•	•	•			•			•		•	
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PLO 14	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•		•		•	•	•	•	•	•	•	•
PLO 15	•	•									•	•					•	•				•				•	
PLO 16	•	•		•			•		•			•	•			•		•		•	•	•		•		•	
PLO 17	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
PLO 18	•	•		•		•	•		•		•	•	•			•	•	•		•	•	•		•		•	
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PLO 27	•	•	•	•		•		•	•			•			•	•		•	•		•	•	•	•		•	
PLO 28	•	•									•	•				•	•					•				•	
PLO 29	•	•		•					•			•				•		•						•		•	