



INTERNATIONAL EUROPEAN UNIVERSITY

EDUCATIONAL AND PROFESSIONAL PROGRAMME

"MEDICINE"

Second (master's) level of higher education

in the field of study I2 Medicine

Field of knowledge I Health Care and Social Welfare

Educational qualification: Master of Medicine

APPROVED BY THE ACADEMIC COUNCIL



**Chair of the Academic Council
/Professor Oleh PADALKA
(Minutes No. 10 of June 26, 2025)**

The educational programme shall come into effect on 01.09.2025.

Rector of the International European University

**/Professor Oleh PADALKA
(order No. 147/3-од dated 26.06.2025)**



FOREWORD

1. Approved by the decision of the Academic Council of the International European University dated June 26, 2025, protocol No.10.

2. Developed by a project team consisting of:

Project team leader (educational programme guarantor):

Anastasiia Bondarenko – Doctor of Medical Sciences, Professor, Head of the Department of Pediatrics, Immunology, Infectious and Rare Diseases;

Project team:

Oleh Vovk – Doctor of Medical Sciences, Professor, Director of the European Medical School Research Institute;

Oleksandra Vovk – PhD in Medicine, Associate Professor, Head of the Department of Fundamental and Medical-Preventive Disciplines;

Vadym Vus – Lecturer, Department of Human Morphology and Physiology;

Ivanna Hrytsan – PhD in Medicine, Lecturer, Department of Internal Medicine;

Oksana Kaleynikova – PhD in Biology, Associate Professor of the Department of Human Morphology and Physiology;

Hanna Kondaurova – PhD in Medicine, Associate Professor of the Department of Human Morphology and Physiology;

Anatolii Maslyukov – PhD in Medicine, Associate Professor of the Department of Human Morphology and Physiology;

Diana Moreva – PhD in Medicine, Associate Professor, Head of the Department of Gastroenterology, Dietetics and Comorbidity.

The educational programme has been developed in accordance with:

- The standard of higher education of the second (master's) level, field of knowledge 22 Health Care, specialty 222 Medicine, approved and put into effect by order of the Ministry of Education and Science of Ukraine dated 08.11.2021 No. 1197
- The Law of Ukraine "On Higher Education" - <http://zakon4.rada.gov.ua/laws/show/1556-18> .
- Law of Ukraine "On Education" - <http://zakon5.rada.gov.ua/laws/show/2145-19> .
- National Classifier of Ukraine: Classifier of Professions DK 003:2010. – <https://zakon.rada.gov.ua/rada/show/va327609-10>
- National Qualifications Framework, 2011 – <http://zakon4.rada.gov.ua/laws/show/1341-2011-п>.
- List of fields of knowledge and specialties for which higher education is provided 2015 – <http://zakon4.rada.gov.ua/laws/show/266-2015-п>.
- Resolution of the Cabinet of Ministers of Ukraine No. 1337 of 28 December 2020 "Regulations on the organisation of the educational process in healthcare institutions with the participation of scientific and pedagogical staff of higher education institutions that train higher education applicants in the field of healthcare" <https://zakon.rada.gov.ua/laws/show/1337-2020-п#Text>.
- Order of the Cabinet of Ministers of Ukraine No. 95-r of 29 February 2019 "Strategy for the

Development of Medical Education in Ukraine" - <https://zakon.rada.gov.ua/laws/show/95-2019-p#n8>.

- Methodological recommendations for the development of higher education standards. Approved by Order of the Ministry of Education and Science of Ukraine No. 600 dated 01.06.2017 (as amended by Order No. of the Ministry of Education and Science of Ukraine dated 30.04.2020 No.584. - https://mon.gov.ua/storage/app/media/vyshcha/naukovo-metodychna_rada/2020-metod-rekomendacziyi.docx.
- Basic medical education WFME global standards for quality improvement – <https://wfme.org/wp-content/uploads/2022/03/WFME-BME-Standards-2020.pdf>
- Foundational Competencies for Undergraduate Medical Education – <https://image.email.aamc.org/lib/fe8e13727c63047f73/m/1/3d55a3aa-b3ba-4c14-a447-8c60e27a6f05.pdf>
- Policy on Quality of Basic Medical Education – https://www.cpme.eu/api/documents/adopted/2024/11/cpme_ad_09112024_084.final.policy.quality.of.basic.medical.education.pdf
- The European Qualifications Framework (EQF) – <https://europass.europa.eu/en/europass-digital-tools/european-qualifications-framework>

Reviews and comments:

Academic community:

Ivan Savytskyi – rector of International Academy of Ecology and Medicine (IAEM), Doctor of Medical Sciences, Professor;

Oleksandr Kovalchuk – Head of Department Physiology & Anatomy ESC “Institute of biology and medicine”, Doctor of Medical Sciences, Professor.

Foreign experts:

Dr. Przemysław Bury – Director of the Health Care Team in Wągrowiec (Poland);

Łukasz Szarpak – Assoc Prof. PhD, MBA Vice Rector for Science and International Cooperation Maria Skłodowska-Curie Medical Academy, Warsaw, Poland.

External stakeholders:

Mr. Reda Elnaggar NILE HOSPIT (Egypt, Hurghada).

Dr. Mykola Kvach – Chief Physician of the "Harmony of Health" Clinic, PhD in Medicine.

Dr. Denys Sylenko – Chief Physician of the "MyDerm" Medical Centre.

1. PROFILE OF THE EDUCATIONAL PROGRAMME "MEDICINE"

in the field of study I2 Medicine in the area of knowledge I Health Care and Social Welfare

1 – General information	
Full name of the higher education institution and structural unit delivering the programme	International European University European Medical School Educational and Scientific Institute
Level of higher education	Second (Master's) level
Degree awarded	Master
Field of knowledge	I Healthcare and social welfare
Specialty	I2 Medicine
ISCED-F 2013 code and title of the detailed field of study	0912 Medicine
Mode of study	Full-time
Qualification awarded	Master of Medicine
Diploma qualification	Higher education degree – Master Specialty – I2 Medicine Professional qualification – Physician
Official title of the programme	Educational and professional programme "Medicine"
Programme volume and diploma type	Master's Diploma, single, 363 ECTS credits. Duration of study: 5 years 10 months (6 academic years). Programme volume: - based on complete secondary education – 363 ECTS credits; - based on a Bachelor's, Junior Bachelor's, Professional Junior Bachelor's or Junior Specialist's degree in specialty 13 Nursing (223 Nursing, 5.12010101 General Medicine, 5.12010102 Nursing) the University may recognise and transfer up to 60 ECTS credits obtained within the previous programme of study.
Accreditation status	Accredited by the Central Evaluation and Accreditation Agency (ZEvA, Germany). Certificate № IP-1031-1/1 dated 05.12.2024 (valid until 30.09.2031), ID in the Unified State Electronic Database on Education (EDEBO) 36660 (entered in EDEBO in accordance with the decision of NAQA of 14 January 2025, Minutes №1 (73)).
Programme cycle/level	FQ – EHEA – second cycle, QF-LLL – level 7, NQF of Ukraine – level 7
Entry requirements	Defined by the Admission Rules of the International European University in accordance with current legislation. Prerequisites: - possession of a complete secondary education certificate; - possession of a diploma of Junior Specialist, Professional Junior Bachelor, Bachelor or Junior Bachelor in specialty 13 Nursing (223 Nursing, 5.12010101 General Medicine, 5.12010102 Nursing).
Language(s) of instruction	Ukrainian, English
Validity of the programme	Valid from September 2025 for 6 years
Web address of permanent programme description	https://ieu.edu.ua/en/education/educational-programs
2 – Purpose of the educational programme	
To develop the ability to apply acquired knowledge, skills, general and specialised competences, as well as elements of scientific inquiry, for solving professional tasks of a physician in healthcare. The scope of application includes recognised lists of physiological and pathological conditions, diseases and emergencies, laboratory and instrumental investigations, issues of medical, social, occupational and military expertise and rehabilitation, as well as the implementation of preventive measures.	
3 – Characteristics of the educational programme	
Subject area (field of knowledge, specialty)	Field of knowledge – Health care and social security Specialty – I2 "Medicine", multidisciplinary. Normative disciplines:

	<ul style="list-style-type: none"> • General and fundamental training – 32.2% (116 ECTS credits) • Professional training – 58.6% (211 ECTS credits) • Elective courses – 10% (36 ECTS credits) <p>The programme includes clinical and simulation placements – 8.6% (31 ECTS credits), interactive training and elective practice modules.</p>
	<p>Object of study and/or medical practice: prevention, diagnosis and treatment of human diseases; the impact of health problems on patients, families and populations; health promotion.</p> <p>Learning outcomes: ability to solve complex tasks and problems, including research and innovation, in medicine; readiness for continuing education with a high degree of autonomy.</p> <p>Theoretical content: concepts, principles and theories of prevention, diagnosis and treatment of human diseases at individual, family and population levels.</p> <p>Methods, methodologies, technologies: anamnesis, clinical, laboratory and instrumental diagnostic methods; identification of symptoms and syndromes; determination of preliminary and clinical diagnoses; technologies of diagnosis, treatment and prevention; management and organisation in healthcare.</p> <p>Tools and equipment: modern diagnostic, therapeutic and professional instruments and devices.</p>
Academic rights of graduates	Entitlement to further medical qualifications and specialisation within postgraduate medical education, in particular internship training; admission to the third (educational and scientific) cycle of higher education.
Programme orientation	Educational and professional, practice-oriented towards medical theory and practice.
Principal focus	Higher education in the field of Health and Social Welfare, specialty 12 Medicine, with advanced conceptual knowledge and professional training in healthcare for diagnosis, treatment and prevention of diseases, in accordance with the Standard of Higher Education in Medicine, national legislation and relevant regulations. <i>Keywords:</i> Master, Medicine, Healthcare, Higher Education
Distinctive features of the programme	<p>The programme “Medicine” is focused on high-quality preparation of competitive specialists – Masters of Medicine – by introducing and implementing a scientifically based, economically efficient model of educational process within an integrated medical, scientific and socio-economic environment.</p> <p>It features a dynamic and innovative character to address regional and national needs, scientific and clinical advances, in the context of academic freedom defined by the Law of Ukraine “On Higher Education”.</p> <p>The programme provides students with up-to-date knowledge, competencies and practical skills delivered by established scientific schools, medical practitioners, and members of national and international academic and professional associations.</p> <p>It fosters an individual learning trajectory based on a practice-oriented and competence-based approach; skills in research and innovation; opportunities for international and national mobility (including clinical and simulation placements, professionally oriented summer schools); adherence to inclusivity, accessibility, gender equality and academic integrity.</p> <p>The programme incorporates expertise of European academics (e.g. Maria Skłodowska-Curie Medical University, Kaunas Medical University).</p> <p>Students may also study at leading private healthcare facilities in Ukraine employing modern medical technologies (e.g. “Harmony of Health”, “Universum”, “My Derm”, “Dobrobut”, “Smart Medical Centre”), with exposure to innovative educational technologies.</p> <p>Clinical and industrial placements may be undertaken both in Ukraine and abroad (e.g. Poland, Anadolu Clinic in Turkey, Nile Clinic in Egypt).</p>

	Teaching is student-centred.
4 - Employability and Further Education	
Employability	<p>Graduates of the Master's Programme in Medicine may be employed in the following areas of economic activity (according to the Ukrainian Classification of Economic Activities DK 009:2010):</p> <p>Section Q. Human health and social work activities</p> <p>Division 86.1. Hospital activities</p> <p>Group 86.10 Hospital activities</p> <p>Class 86.21 General medical practice</p> <p>Class 86.90 Other human health activities</p> <p>Professional roles upon graduation:</p> <p>Intern physician (code KP – 3229)</p> <p>Resident physician (code KP – 3221)</p> <p>Upon completion of internship or residency training, graduates may qualify for physician posts in accordance with DK 003-2010:</p> <p>Section 2 Professionals</p> <p>Subsection 22 Life science and health professionals</p> <p>Class 221 Life science and health professionals</p> <p>Class 222 Medical professionals (excluding nursing)</p> <p>Subclass 2221 Medical practitioners (excluding dentistry)</p> <p>Subgroup 2221.2 Physicians</p> <p>Subclass 2225 Public health professionals</p> <p>Subgroup 2225.2 Physicians specialised in public health</p> <p>Subclass 2229.2 Other medical professionals (excluding nursing and midwifery)</p>
Further education	<p>Graduates may enter postgraduate programmes (internship, residency) leading to medical specialist qualifications.</p> <p>Upon completion of internship in Medicine, graduates have the right to:</p> <ul style="list-style-type: none"> - undertake specialisation and work as a physician in a relevant field as defined in DK 003-2010; - pursue the third (educational and scientific) level of higher education leading to a PhD; - acquire an additional specialty enabling employment as a physician in another recognised field; - acquire further qualifications through postgraduate education and continuous professional development.
5 - Teaching and assessment	
Teaching and learning	<p>Competence-based, student-centred learning, proactive self-study, problem-oriented learning with a scientific component. The educational process takes the following forms: interactive scientific and educational lectures, practical classes in small groups, independent work, consultations with teachers, use of electronic knowledge tests, special simulators for students to practice complex manual skills, access to online lectures, writing case histories, educational and industrial internships.</p>
Assessment	<p>Assessment of programme learning outcomes is carried out in accordance with the "Regulations on the Organisation of the Educational Process at International European University".</p> <p>Assessment is based on the ECTS scale, 200-point scale, and national grading system.</p> <p>Grades "excellent", "good", "satisfactory" and "unsatisfactory" are awarded for: examinations; differentiated assessments (excluding OC 37 and OC 38); practice placements.</p> <p>Grade "passed" is awarded for credit assessments.</p> <p>Result "successfully completed" is awarded upon passing: the Unified State Qualification Examination (including the integrated test Krok 1, professional English language examination, integrated test Krok 2,</p>

	Objective Structured Clinical Examination (OSCE)); the international examination in the basics of medicine; OC 37 pre-Krok 1 and OC 38 pre-Krok 2.
6 – Program competences	
Integral Competence	Ability to independently solve complex and unpredictable problems in the field of medicine, including research- and innovation-oriented tasks, by integrating advanced knowledge, clinical reasoning, and ethical responsibility. Demonstrates capacity to communicate conclusions clearly to diverse audiences and to pursue lifelong learning with a high degree of autonomy and accountability for professional development.
General Competencies (GC)	<p>GC1. Ability to demonstrate advanced abstract thinking, critical analysis, and synthesis.</p> <p>GC2. Ability to learn independently and acquire state-of-the-art knowledge in the field.</p> <p>GC3. Ability to apply knowledge and skills effectively in practical and professional contexts.</p> <p>GC4. In-depth knowledge and understanding of the subject area and its professional applications.</p> <p>GC5. Ability to adapt to new and complex situations and act effectively under uncertainty.</p> <p>GC6. Ability to make well-founded, responsible, and evidence-based decisions.</p> <p>GC7. Ability to work effectively in a team and contribute to collaborative tasks and leadership roles.</p> <p>GC8. Ability to demonstrate effective interpersonal communication and collaboration in diverse settings.</p> <p>GC9. Ability to communicate fluently and effectively in a foreign language in academic and professional contexts.</p> <p>GC10. Ability to use modern information and communication technologies in professional, research, and learning activities.</p> <p>GC11. Ability to search, critically evaluate, and analyze information from diverse sources.</p> <p>GC12. Determination, persistence, and responsibility in fulfilling professional tasks and commitments.</p> <p>GC13. Ability to integrate principles of equity, diversity, and gender sensitivity into professional and research activities.</p> <p>GC14. Ability to apply principles of democratic governance, rule of law, and human rights in professional decision-making and to contribute to sustainable societal development at national and international levels.</p> <p>GC15. Ability to promote and preserve ethical, cultural, and scientific values within the academic and professional community, based on an understanding of the historical development and societal role of the field of study.</p> <p>GC16. Ability to act and make decisions in full compliance with the principles of academic integrity and zero tolerance toward corruption.</p>
Special (Professional, Subject-Specific) Competencies (SC)	<p>SC1. Ability to collect, synthesize, and interpret patient history, physical examination, and clinical data for evidence-based diagnostic reasoning.</p> <p>SC2. Ability to select, perform, and critically evaluate laboratory, imaging, and instrumental investigations in accordance with professional standards.</p> <p>SC3. Ability to formulate differential and final diagnoses guided by international guidelines and best available evidence.</p> <p>SC4. Ability to design and implement individualized therapeutic and preventive strategies, integrating lifestyle, dietary, pharmacological, and rehabilitative measures.</p> <p>SC5. Ability to recognize, evaluate, and manage urgent and life-threatening conditions, ensuring timely and appropriate interventions.</p> <p>SC6. Ability to perform core clinical procedures and technical skills safely, ethically, and effectively across healthcare settings.</p>

SC7. Ability to manage physiological pregnancy, normal childbirth, and postpartum care, and to provide reproductive health counseling, including family planning.

SC8. Ability to plan and implement sanitary, hygienic, and public health measures to promote individual and population well-being.

SC9. Ability to organize, coordinate, and assess preventive and epidemic-control strategies in relation to infectious diseases.

SC10. Ability to analyze the influence of biological, environmental, and socio-economic determinants on the health of individuals, families, and populations.

SC11. Ability to design, conduct, and interpret epidemiological and biostatistical studies, applying rigorous methodological approaches.

SC12. Ability to evaluate and improve the quality, safety, and efficiency of healthcare delivery, ensuring responsible resource management.

SC13. Ability to organize and integrate healthcare services at institutional and community levels, applying health system and management principles.

SC14. Ability to collaborate and lead within multidisciplinary and interprofessional healthcare teams, fostering shared decision-making.

SC15. Ability to communicate medical knowledge, clinical reasoning, and professional judgments clearly to colleagues, patients, families, and society.

SC16. Ability to address complex and unpredictable healthcare challenges by applying strategic and innovative approaches.

SC17. Ability to conceptualize, conduct, and disseminate biomedical and clinical research in accordance with international standards of scientific integrity.

SC18. Ability to employ digital health tools, electronic medical records, telemedicine, and simulation technologies in clinical and research practice.

SC19. Ability to apply ethical principles and professional standards consistently in patient care, medical education, and biomedical research.

SC20. Ability to demonstrate academic integrity and accountability, ensuring reliability, validity, and reproducibility of clinical and scientific outcomes.

7 – Program Learning Outcomes (Defined by the Standard of Higher Education in the specialty I 2 – Medicine)

PLO 1. Uphold professional duties responsibly, guided by ethical principles, current legislation, and standards of medical practice. Ensures respect for patient autonomy during clinical interaction. Maintains continuous professional development by integrating new knowledge, skills, and approaches into medical practice in accordance with current professional achievements.

PLO 2. Synthesize comprehensive knowledge of the structure and functions of the human body, as well as an understanding of the mechanisms of disease, formed on the basis of fundamental and clinical biomedical sciences. Applies this knowledge to informed decision-making in diagnosis, treatment, and prevention of diseases.

PLO 3. Critically appraise modern scientific approaches to the analysis of medical and interdisciplinary problems, principles of planning and conducting research, and applies scientific sources and the principles of evidence-based medicine in professional activity.

PLO 4. Conduct an initial patient assessment, recognizes key symptoms and syndromes (List 1), and formulates a clinically sound preliminary diagnosis (List 2) based on integrated medical knowledge.

PLO 5. Conduct a clinical assessment of the patient by collecting complaints, medical and life history, assessing the functional state of organs and systems, and interpreting laboratory and instrumental test results (List 4), taking into account age-related characteristics.

PLO 6. Establish a final clinical diagnosis (List 2) by integrating clinical data from history, physical, laboratory, and instrumental examination, performing differential diagnosis, and considering specialist consultations, in compliance with ethical and legal norms, under supervision in a healthcare facility.

PLO 7. Order additional diagnostic methods (List 4) in complex clinical cases (List 2), considering their evidence-based effectiveness, diagnostic value, clinical context, and resource limitations.

PLO 8. Prioritize the leading clinical syndrome or factor determining the severity of the patient's condition (List 3) through clinical analysis and informed decision-making under time constraints, incomplete clinical information, and/or extreme clinical environments, including emergencies, disasters, and resource-limited settings.

PLO 9. Formulate clinically justified decisions regarding treatment options, taking into account the preliminary diagnosis, the patient's conditions, and current evidence-based approaches; provides justification for personalised management when required, under supervision.
PLO 10. Design non-pharmacological clinical recommendations in accordance with the established diagnosis, including lifestyle recommendations, guided by modern clinical guidelines and with adherence to ethical and legal norms.
PLO 11. Develop evidence-based tactics for the management of physiological pregnancy, childbirth, and the postpartum period in accordance with modern clinical guidelines and standards.
PLO 12. Assess the general condition of a newborn by making informed decisions using established algorithms and standard schemes, while adhering to relevant ethical and legal norms.
PLO 13. Provide clinical supervision of a healthy child: assesses and monitors growth and development, gives personalised nutritional recommendations, and organises preventive vaccinations in accordance with the national immunisation schedule.
PLO 14. Deliver emergency medical care in urgent conditions (List 3), determining priorities and tactics in accordance with modern clinical protocols under time and resource constraints.
PLO 15. Coordinate the provision of medical care and evacuation measures for victims of emergencies, including armed conflicts and disasters of natural or technogenic origin.
PLO 16. Manage interaction between clinical structures to ensure effective patient pathways and applies tools for optimising healthcare services according to population needs and the competitive healthcare environment.
PLO 17. Perform medical procedures (List 5) in accordance with prescriptions, adhering to patient safety principles, professional ethics, and current legislation, under supervision.
PLO 18. Assess the patient's functional status, determines temporary incapacity for work, and maintains the required clinical documentation in compliance with standards.
PLO 19. Implement public health programs focused on infection control, modification of behavioural risk factors, and health promotion, using evidence-based approaches, awareness campaigns, and community collaboration.
PLO 20. Evaluate the epidemiological situation and implements primary, secondary, and tertiary prevention measures for infectious diseases in accordance with national and international standards (CDC, WHO).
PLO 21. Update knowledge for professional activity using professional literature, scientific sources, and databases on a regular basis.
PLO 22. Apply modern digital technologies, analytical tools, and artificial intelligence systems to provide high-quality medical care based on the latest scientific and clinical advances, to optimise teamwork, and to improve healthcare workflows.
PLO 23. Evaluate the impact of environmental and social determinants on population health, analysing their effect on access to healthcare, based on public health principles and evidence-based approaches.
PLO 24. Maintain personal safety while performing professional duties, considering risks to oneself and others in situations threatening health or life, following the principles of safe clinical practice.
PLO 25. Model effective professional communication that ensures teamwork; establishes safe, trusting, and professional relationships with patients, their families, and the community, based on empathy, mutual respect, and awareness of bias; clearly and accessibly explains medical information according to the patient's needs.
PLO 26. Lead teamwork, foster partnerships with patients and communities, implement innovative solutions, and strategically manage healthcare system processes to improve care quality and promote professional growth.
PLO 27. Demonstrate proficiency in the Ukrainian language at a level sufficient for professional activity; demonstrate proficiency in English at a level sufficient for professional communication, searching and analysing evidence-based medical information, and continuously improving language skills through English-language professional resources.
PLO 28. Make informed healthcare decisions based on systems thinking, taking into account interrelations among resources, policies, social determinants, and health outcomes for individuals and communities.
PLO 29. Plan and organise specific prevention measures for infectious diseases, including immunoprophylaxis in accordance with the National Immunisation Schedule (mandatory and recommended); ensure accounting and control of vaccine use and remaining stock; organise supplementary vaccination campaigns.
8 – Program Learning Outcomes (Defined by the Higher Education Institution)
PLO 30. Demonstrate respectful, humane, empathic, and compassionate conduct toward patients, families, and colleagues; show openness to learning from peers with diverse backgrounds and experiences; recognise personal biases and apply strategies to mitigate their impact on care and teamwork.
PLO 31. Evaluate the influence of personal well-being on professional performance; identify early signs of emotional and occupational burnout and apply prevention and recovery strategies; cultivate sources of meaning

and professional fulfilment to support sustainable, long-term growth.

9 – Resource Support for Programme Delivery

Staffing	<p>The academic staff – the programme leader, members of the project team, and the teaching staff of the Departments of International European University responsible for the delivery of the educational component of the Educational and Professional Programme (EPP) “Medicine” – meet the requirements defined by the Licensing Conditions for educational activities in higher education at the second (Master’s) level. Specifically, they hold qualifications in the relevant specialty, demonstrate confirmed academic and professional activity, and are employed as full-time staff of the University. For the delivery of the professionally oriented component of the EPP in Medicine, International European University extensively engages practising clinicians, members of international and national professional associations, and participants of international and national scientific, educational, and professional events. This ensures effective integration of theoretical training and clinical practice and contributes to achieving the programme aims and learning outcomes.</p>
Material and technical support	<p>International European University provides the necessary material and technical resources to deliver educational activities in specialty I2 Medicine. The floor area of teaching facilities is not less than 2.4 m² per student, in compliance with the Licensing Conditions.</p> <p>All lecture halls are equipped with multimedia technology (laptops, multimedia projectors with screens, interactive Jam Boards, Oculus Quest virtual reality headsets, etc.). Specialised classrooms are available, including: an “Anatomical Theatre”, Biomedical Sciences Laboratory, Histology Laboratory, Simulation Centre, Computer Laboratories, and Foreign Language Classrooms.</p> <p>All students have unlimited access to the AccessMedicine database (McGraw-Hill), the USMLEstimation preparation system, and the Labster and Complete Anatomy platforms.</p> <p>Practical skills training is delivered at clinical sites, including:</p> <ul style="list-style-type: none">Kyiv City Clinical Hospital №10Boryspil Multidisciplinary Intensive Care HospitalState Institution “Centre of Innovative Medical Technologies of the National Academy of Sciences of Ukraine”National Children’s Specialised Hospital of the Ministry of Health of Ukraine “OKHMATDYT”Kyiv City Children’s Clinical Hospital №1Harmony of Health ClinicUniversum Private Multidisciplinary ClinicDr Valikhnovskyi’s ClinicDobrobut Medical CentreSmart Medical Centre <p>The University also provides a well-developed social infrastructure: a library with reading rooms and printed/electronic resources, catering facilities, sports grounds, and student accommodation.</p>
Information and Academic Support	<p>All participants of the educational process are provided with information and learning materials in accordance with the Licensing Conditions. Educational activities at International European University are delivered in accordance with the approved curriculum. Each course unit is supported by appropriate methodological resources, including a syllabus and teaching guidelines.</p> <p>The University Library holds an adequate collection of scientific and educational literature in Ukrainian and English, including textbooks, manuals, and monographs authored by leading international scholars and the University’s academic staff. Access to electronic journals and databases is provided through the University e-library and repository.</p>

	<p>Students also have access to electronic textbooks and journals in their field via the State Scientific and Technical Library of Ukraine (https://dntb.gov.ua) and the AccessMedicine database (McGraw-Hill). All relevant institutional information is available on the official University website: https://ieu.edu.ua.</p>
10 – Academic mobility	
National credit mobility	National academic mobility is carried out in accordance with current legislation, the Law of Ukraine “On Higher Education”, the Regulations on Academic Mobility of Participants in the Educational Process of International European University, and on the basis of the student’s individual application.
International credit mobility	International academic mobility is implemented in accordance with current legislation and the University Regulations on Academic Mobility, as well as bilateral cooperation agreements with foreign higher education institutions and healthcare facilities. These agreements cover joint scientific projects on health issues relevant to Ukraine, academic staff and student exchanges, and collaborative postgraduate training. Mobility may also be initiated on the basis of an individual student application.
Study of International Students	Admission of international students is conducted in accordance with the “Admission Regulations of International European University” within the licensed quota for specialty I2 Medicine. Teaching is delivered in accordance with the “Regulations on the Organisation of the Educational Process of International European University” and is conducted in either Ukrainian or English, depending on the student’s choice.

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

Discipline code	List of components of the educational programme Components of the educational programme (academic disciplines, practical training)	Number of credits	Form of interim / final assessment
1	2	3	4
Obligatory components of the educational program			
General (social and humanitarian) training			
OC1	Ukrainian language (for professional purposes) with a course in Ukrainian history and the history of medicine	5	Exam
OC2	English language and medical terminology	23	Exam
Total		28	
Fundamental training			
OC3	Behavioural sciences	21	Exam
	3.1. Mental hygiene	6	Credit
	3.2. Bioethics and medical communications (Doctor and patient)	9	Credit
	3.3. Psychosomatics	6	Credit
OC4	Biology	10	Exam
	4.1. Medical biology	4	Credit
	4.2. Molecular Biology	3	Credit
	4.3. Medical genetics	3	Credit
OC5	Biochemistry	13	Exam
OC6	Human Morphology and Physiology	32	Exam
	6.1. Human Anatomy	14	Credit
	6.2. Histology, Cytology, Embryology	9	Credit
	6.3. Human physiology	9	Credit
OC7	Microbiology, Virology and Immunology	12	Exam
Total		88	
Professional training			
OC8	Pathomorphology	7	Exam
OC9	Pathophysiology	7	Exam
OC10	Pharmacology	7	Exam
OC11	Public Health	15	Exam
	11.1. Principles of evidence-based medicine and scientific research methodology	3	Credit
	11.2. Epidemiology and infection control	4	Credit
	11.3. Medical law	3	Credit
	11.4. Occupational and Environmental Medicine	2	Credit
	11.5. Health care organisation	3	Credit
OC12	General practice	24	Exam
OC13	Internal medicine	21	Exam
OC14	Surgery	15	Exam
OC15	Paediatrics	14	Exam
OC16	Radiology	3	Graded test
OC17	Otorhinolaryngology	3	Graded test
OC18	Ophthalmology	3	Graded test
OC19	Clinical immunology	6	Exam
OC20	Dermatology and Venereology	4	Graded test
OC21	Obstetrics and gynaecology	9	Exam
OC22	Neurology	7	Exam
OC23	Rehabilitation Medicine	3	Graded test
OC24	Infectious diseases	9	Exam
OC25	Psychiatry	3	Graded test
OC26	Traumatology and orthopaedics	4	Graded test
OC27	Oncology	3	Graded test

OC28	Emergency and intensive medical care	7	Graded test
	28.1. Anaesthesiology and intensive care	3	Graded test
	28.2. Emergency and urgent medical care	4	Graded test
OC29	Forensic medicine	3	Graded test
OC30	Basic general military training (theoretical training in basic military training)	3	Graded test
OC31	Patient care (practical training)	4	Graded test
OC32	Nursing practice	3	Graded test
OC33	Medical practice	6	Graded test
OC34	Clinical practice with functional diagnostics workshop	10	Graded test
OC35	Integrated clinical practice with simulation workshop	8	Graded test
OC36	PreKROK 1		Graded test
OC37	PreKROK 2		Graded test
Total volume of compulsory components of professional training		211	
2.2 Selective components (SC) of the EPP (Appendix 1. List of selective components of EPP I2 "Medicine" and their logical sequence).		36	Credit
Total volume of obligatory components		327	
Total volume of selective components		36	
Certification		USQE	
TOTAL PROGRAMME VOLUME		363	

Note 1

1.1 In accordance with the Resolution of the Cabinet of Ministers of Ukraine dated 21 June 2024 No. 734 "On Approval of the Procedure for Basic General Military Training of Ukrainian Citizens Pursuing Higher Education and Police Officers," **OC 30 Basic General Military Training (theoretical training in basic military training)** is included in the EPP "Medicine" as an obligatory educational component for male citizens of Ukraine. Female persons and persons exempt from BGMT may voluntarily choose OC 30 Basic General Military Training (theoretical training BGMT) for study, or choose any other discipline from the list of elective components of the educational programme in the 2nd year of study.

Note 2. Total volume of normative practices in EPP I2 "Medicine"

PRACTICES		Number credits	Form of CP
OC31	Patient care (practical training)	4	Graded test
OC32	Nursing practice	3	Graded test
OC33	Medical practice	6	Graded test
OC34	Clinical practice with functional diagnostics workshop	10	Graded test
OC35	Integrated clinical practice with simulation workshop	8	Graded test
TOTAL PRACTICAL TRAINING		31	

Note 3. In accordance with the Law of Ukraine "On Higher Education" (Art. 62, para. 15), students enrolled in the I2 "Medicine" educational programme at the International European University have the right to choose freely selected educational components (as listed in Appendix 1), as well as to choose educational components offered for other educational programmes and levels of higher education with similar credit support. In the I2 "Medicine" educational programme, the elective component of the programme includes: 6 credits in the 1st year of study, 3 credits in the 2nd year of study, 12 credits in the 3rd year of study, 3 credits in the 4th year of study, and 6 credits in each of the 5th and 6th years of study.

APPENDIX 1

List of elective components of EPP I2 "Medicine" and their logical sequence

Discipline code	List of components of the educational programme Components of the educational programme (academic disciplines, practical training)	Number of credits	Form final assessment
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Elective components (EC) – 1st year of study (6 credits, 2 EC)			
EC 1.1	Elective component 1	3	Credit
EC 1.2	Elective component 2	3	Credit
EC 1.3	Elective component 3	3	Credit
EC 1.4	Elective component 4	3	Credit
EC 1.5	Elective component 5	3	Credit
EC 1.6	Elective component 6	3	Credit
	Total	6	
Elective components (EC) – 2nd year of study (3 credits, 1 EC)			
EC 2.1	Elective component 7	3	Credit
EC 2.2	Elective component 8	3	Credit
EC 2.3	Elective component 9	3	Credit
	Total	3	
Elective components (EC) – 3rd year of study (12 credits, 2-4 SC)			
EC 3.1	Elective component 10	6	Credit
EC 3.2	Elective component 11	6	Credit
EC 3.3	Elective component 12	3	Credit
EC 3.4	Elective component 13	3	Credit
EC 3.5	Elective component 14	3	Credit
EC 3.6	Elective component 15	3	Credit
	Total	12	
Elective components (EC) – 4th year of study (3 credits, 1 EC)			
EC 4.1	Elective component 16	3	Credit
EC 4.2	Elective component 17	3	Credit
EC 4.3	Elective component 18	3	Credit
	Total	3	
Elective components (EC) – 5th year of study (6 credits, 2 EC)			
EC 5.1	Elective component 19	3	Credit
EC 5.2	Elective component 20	3	Credit
EC 5.3	Elective component 21	3	Credit
EC 5.4	Elective component 22	3	Credit
EC 5.5	Elective component 23	3	Credit
EC 5.6	Elective component 24	3	Credit
	Total	6	
Elective components (EC) – 6th year of study (6 credits, 2 EC)			
EC 6.1	Elective component 25	3	Credit
EC 6.2	Elective component 26	3	Credit
EC 6.3	Elective component 27	3	Credit
EC 6.4	Elective component 29	3	Credit
EC 6.5	Elective component 30	3	Credit
EC 6.6	Elective component 31	3	Credit
	Total	6	
Total volume of elective components		36	

2.2 Structural and logical diagram of the EPP “Medicine”

Discipline code	Educational components	Distribution by year of study					
		1	2	3	4	5	6
OC1	Ukrainian language (for professional purposes) with a course in Ukrainian history and the history of medicine	•					
OC2	English language and medical terminology	•	•	•			
OC3	Behavioural sciences	•	•				
	<i>3.1. Mental hygiene</i>	•					
	<i>3.2. Bioethics and medical communications (doctor and patient)</i>	•	•				
	<i>3.3. Psychosomatics</i>		•				
OC4	Biology	•					
	<i>4.1. Medical biology</i>	•					
	<i>4.2. Molecular biology</i>	•					
	<i>4.3. Medical genetics</i>	•					
OC5	Biochemistry	•	•				
OC6	Human Morphology and Physiology	•	•				
	<i>6.1. Human Anatomy</i>	•	•				
	<i>6.2. Histology, cytology, embryology</i>	•	•				
	<i>6.3. Human physiology</i>		•				
OC7	Microbiology, virology and immunology		•	•			
OC8	Pathomorphology			•			
OC9	Pathophysiology			•			
OC10	Pharmacology			•			
OC11	Public health		•			•	•
	<i>11.1. Principles of evidence-based medicine and scientific research methodology</i>		•				
	<i>11.2. Epidemiology and infection control</i>					•	
	<i>11.3. Medical law</i>						•
	<i>11.4. Occupational and environmental medicine</i>						•
	<i>11.5. Health care organisation</i>						•
OC12	General practice			•	•	•	•
OC13	Internal medicine				•	•	•
OC14	Surgery			•	•	•	•
OC15	Paediatrics			•	•	•	•
OC16	Radiology				•		
OC17	Otorhinolaryngology				•		
OC18	Ophthalmology				•		
OC19	Clinical immunology				•		
OC20	Dermatology and Venereology				•		
OC21	Obstetrics and gynaecology				•	•	•
OC22	Neurology				•	•	

OC23	Rehabilitation Medicine				•		
OC24	Infectious diseases					•	
OC25	Psychiatry					•	
OC26	Traumatology and orthopaedics						•
OC27	Oncology					•	
OC28	Emergency and intensive medical care					•	•
	<i>29.1. Anaesthesiology and intensive care</i>					•	
	<i>29.2. Emergency and urgent medical care</i>						•
OC29	Forensic medicine						•
OC30	Basic military training <i>(theoretical training in basic military training)</i>		•				
OC31	Patient care (practical training)		•				
OC32	Nursing practice			•			
OC33	Medical practice				•		
OC34	Clinical practice with functional diagnostics workshop					•	
OC35	Integrated clinical practice with simulation workshop						•
OC36	PreKROK 1			•			
OC37	PreKROK 2						•
Elective components (EC)		•	•	•	•	•	•
Certification (USQE)				•			•

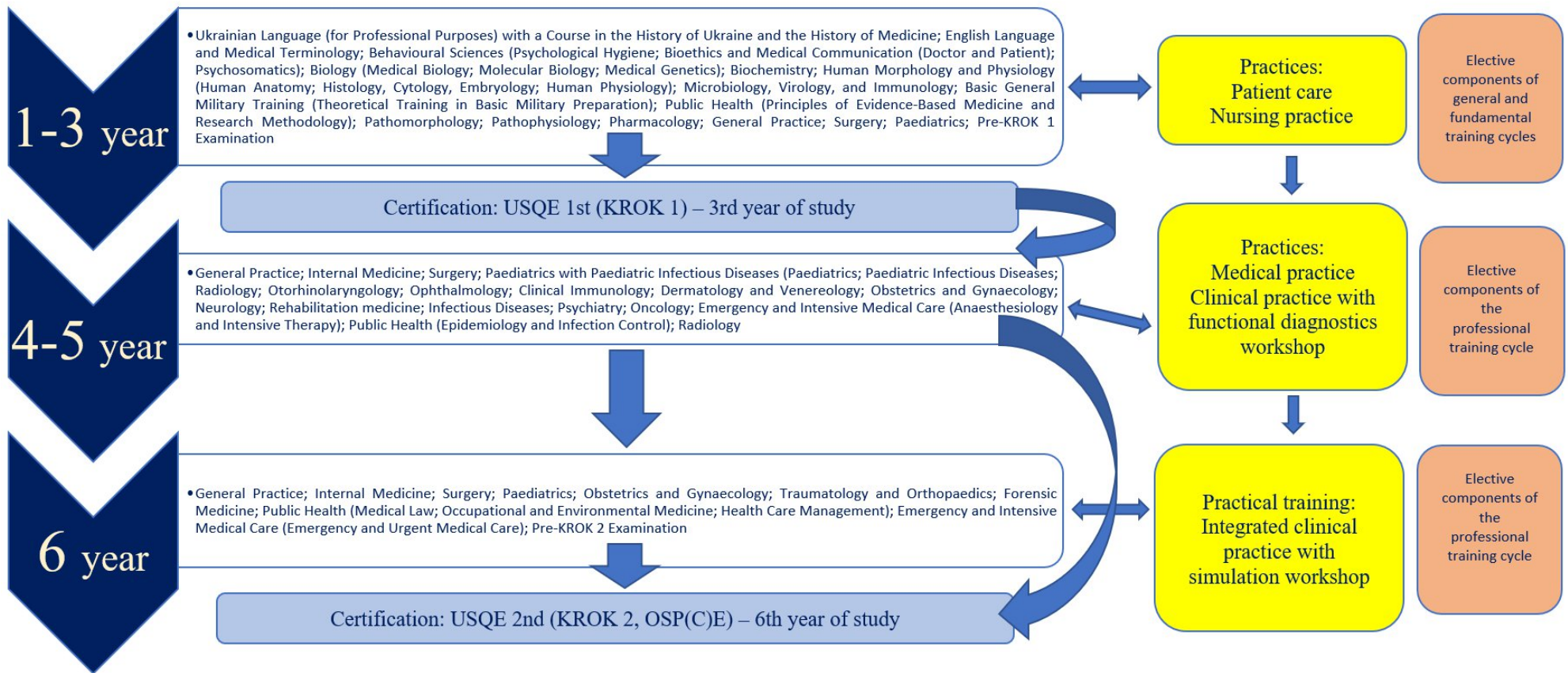


Fig. 1. Structural and logical diagram of the EPP "Medicine"

APPENDIX 2

List 1 (syndromes and symptoms)

1. amenorrhea	39. external bleeding
2. acromegaly	40. internal bleeding
3. anaemia syndrome	41. haemoptysis
4. anuria and oliguria	42. galactorrhea
5. arterial hypertension	43. lymphadenopathy
6. arterial hypotension	44. meningeal syndrome
7. chest pain	45. uterine bleeding
8. abdominal pain	46. oedema syndrome
9. pain in the limbs and back	47. obesity (+body weight)
10. perineal pain	48. paresis, paralysis
11. sore throat	49. precocious puberty
12. vomiting	50. fractures of tubular bones
13. broncho-obstructive syndrome	51. tension (closed) pneumothorax
14. bulbar syndrome	52. non-tension (open) pneumothorax
15. pleural effusion	53. valvular pneumothorax
16. hallucinatory-paranoid syndrome	54. polyuria
17. fever	55. portal hypertension
18. haemorrhagic syndrome	56. speech disorders (aphasia)
19. hypoglycemia	57. cardiac rhythm and conduction disturbances
20. hyperglycemia	58. sudden cardiac arrest
21. exanthema, enanthema	59. disorders of consciousness
22. hepatomegaly and hepatolienal syndrome	60. skin itching
23. headache	61. urinary syndrome
24. dysuria	62. dementia syndrome
25. dysmenorrhea	63. dehydration syndrome
26. dyspepsia	64. malabsorption syndrome
27. dysphagia	65. thirst
28. diarrhea	66. stridor
29. jaundice	67. articular (joint) syndrome
30. dyspnea (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 the blood and blood-forming organs, disorders involving the immune mechanism

1. anaemia
2. haemolytic disease of the newborn
3. haemophilia
4. leukaemia
5. lymphomas
6. congenital (Bruton's disease, Wiskott-Aldrich syndrome) and acquired immunodeficiency conditions
7. neonatal sepsis
8. surgical sepsis
9. idiopathic thrombocytopenic purpura
10. chronic radiation injury

II) Mental and behavioural disorders:

11. bipolar affective disorder
12. acute psychosis, including alcohol delirium
13. epilepsy
14. neurotic disorders
15. personality disorders
16. schizophrenia

III) Diseases of the nervous system

17. intracranial injury
18. meningitis, encephalitis
19. migraine and other types of headache
20. perinatal encephalopathy
21. disorders of the autonomic nervous system
22. cerebrovascular disorders
23. vertebrogenic nervous system diseases, neuropathies, and polyneuropathies
24. multiple sclerosis
25. chronic occupational injuries (vibration disease, occupational dyskinesias)
26. strokes (ischaemic, haemorrhagic)

Eye diseases

27. blepharitis
28. glaucoma
29. conjunctivitis
30. foreign body in the eye
31. eye injuries
32. retinopathy
33. exophthalmos

Diseases of the throat, ear, nose

34. laryngitis

35. otitis
36. peritonsillar abscess
37. sinusitis
38. tonsillitis
39. injuries to the throat, ear, nose

IV) Diseases of the cardiovascular system:

40. aortic aneurysms
41. atherosclerosis
42. varicose veins of the lower limbs
43. congenital heart defects
44. secondary arterial hypertension
45. acute occlusion of the major and peripheral arteries;
46. endocarditis
47. essential and secondary arterial hypertension
48. ischaemic heart disease
49. carditis
50. cardiomyopathies
51. pulmonary heart disease (cor pulmonale)
52. acquired heart defects
53. obliterating endarteritis
54. pericarditis
55. cardiac rhythm and conduction disorders
56. heart failure
57. injuries to the heart and blood vessels
58. pulmonary artery thromboembolism
59. phlebitis, thrombophlebitis

V) Diseases of the respiratory system and mediastinum:

60. asphyxia
61. bronchial asthma
62. bronchitis
63. bronchiectasis
64. bronchopulmonary dysplasia
65. congenital malformations of the respiratory system
66. acute respiratory distress syndrome
67. respiratory failure
68. infectious-destructive lung diseases
69. pulmonary insufficiency
70. mediastinitis
71. cystic fibrosis
72. neoplasms of the lungs and mediastinum
73. pleurisy
74. pneumoconiosis

- 75. pneumonia
- 76. pneumothorax
- 77. neonatal respiratory distress syndrome and pneumonia
- 78. foreign body in the airways
- 79. chest injuries (superficial, open)
- 80. chronic obstructive pulmonary disease

VI) Diseases of the digestive system:

- 81. rectal prolapse
- 82. peptic ulcer disease
- 83. congenital malformations of the digestive system
- 84. gastroesophageal reflux disease, oesophagitis
- 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 oesophagus
- 91. enteritis, colitis
- 92. inflammatory diseases of the rectum and perianal region
- 93. strangulated and non-strangulated abdominal hernias
- 94. neoplasms of the oesophagus, 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. pyloric stenosis of the stomach
- 101. abdominal injuries (superficial, open)
- 102. functional gastrointestinal disorders
- 103. diseases of the operated stomach
- 104. cholecystitis, cholangitis, cholelithiasis, choledocholithiasis
- 105. liver cirrhosis
- 106. gastrointestinal bleeding

VII) Diseases of the genitourinary system:

- 107. renal amyloidosis
- 108. balanitis, balanoposthitis
- 109. congenital malformations of the urinary system
- 110. glomerulonephritis
- 111. dysmetabolic nephropathies

- 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 children and newborns
- 125. mycoses
- 126. burns and frostbite
- 127. parasitic diseases of the skin (scabies, lice)
- 128. psoriasis
- 129. bullous dermatoses
- 130. specific surgical infection (anaerobic clostridial and non-clostridial)

IX) Diseases of the musculoskeletal system and connective tissue:

- 131. ankylosing spondylitis
- 132. congenital and acquired malformations of the musculoskeletal system
- 133. acute rheumatic fever
- 134. dermatomyositis and polymyositis
- 135. neoplasms of the musculoskeletal system
- 136. osteoarthritis
- 137. osteomyelitis
- 138. gout
- 139. polytrauma
- 140. reactive arthritis
- 141. rheumatoid arthritis
- 142. systemic scleroderma
- 143. systemic lupus erythematosus
- 144. systemic vasculitis (nodular polyarteritis, haemorrhagic vasculitis, hypersensitivity vasculitis)

145. typical fractures of the humerus, forearm, hand, femur, tibia, and foot

146. pelvic injury

147. spinal injury

148. injuries to major joints

(hip, knee, ankle, elbow)

149. chronic rheumatic disease

150. juvenile rheumatoid arthritis

X) Diseases of the endocrine system, nutrition and metabolic disorders:

151. acromegaly and pituitary gigantism

152. hypothyroidism

153. hypotrophy, protein-energy malnutrition

154. hypopituitarism

155. thyrotoxicosis

156. endemic goitre

157. diabetes insipidus

158. nodular goitre, thyroid tumours

159. obesity

160. congenital adrenal cortex dysfunction

161. calcium-phosphorus metabolism disorders, vitamin D metabolism disorders

162. genetic syndromes with endocrine complications: Turner syndrome, Russell-Silver syndrome, Prader-Willi syndrome, Laron syndrome, etc.)

163. thyroiditis

164. Cushing's disease and syndrome

165. chronic adrenal insufficiency

166. diabetes mellitus

167. hypoparathyroidism

168. hyperparathyroidism

169. adrenal gland tumours

170. organic (including congenital) hyperinsulinism

171. neuroendocrine tumours

172. pituitary tumours

173. precocious puberty

174. hypogonadism

175. cryptorchidism

176. gender differentiation disorders

177. Klinefelter syndrome

178. dwarfism in a child born SGA

XI) Infectious and parasitic diseases:

179. bacterial food poisoning

180. erysipelas

181. botulism

182. viral hepatitis

183. chickenpox

184. congenital infections in newborns

185. helminthiasis

186. herpesvirus infections

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. tick-borne viral encephalitis

196. rubella

197. leptospirosis

198. malaria

199. meningococcal infection

200. particularly dangerous viral infections

201. mumps

202. poliomyelitis

203. tetanus

204. protozoal infections

205. rickettsiosis

206. anthrax

207. rabies

208. scarlet fever

209. tuberculosis of various localizations

210. Lyme disease

211. disease caused by the human immunodeficiency virus (HIV)

212. chlamydial infections

213. cholera

214. plague

- infectious diseases transmitted mainly through sexual contact:

215. gonococcal infection

216. syphilis

XII) Diseases of the female reproductive system

Pregnancy-related pathologies:

217. multiple pregnancy

218. hyperemesis gravidarum

219. pregnancy with extragenital pathology

220. foetal distress during pregnancy

221. foetal growth restriction

222. immunological conflict in pregnancy
223. hydatidiform mole
224. placenta praevia
225. premature placental abruption
226. premature birth and post-term pregnancy
227. ectopic pregnancy
228. preeclampsia and eclampsia
229. spontaneous abortion
Labour and postpartum pathologies:
230. abnormalities of labour
231. pelvic abnormalities, including clinically contracted pelvis
232. foetal distress during labour
233. obstetric and postpartum haemorrhage
234. malpositions and malpresentations of the fetus

235. postpartum septic diseases
236. injuries of the uterus and birth canal
gynaecological diseases:
237. abnormal uterine bleeding
238. ovarian apoplexy
239. infertility
240. congenital malformations of the female genital organs
241. benign breast dysplasia
242. benign and precancerous neoplasms of the female genital organs
243. endometriosis
244. inflammatory diseases of the female genital organs
245. malignant neoplasms of the female genital organs
246. mastitis
247. breast neoplasms

List 3 (Emergency conditions):

- | | |
|--|---|
| <ol style="list-style-type: none">1. asphyxia (including neonatal)2. hypertensive crisis3. hypoglycaemia (coma)4. acute respiratory failure5. acute urinary retention6. acute adrenal insufficiency7. acute kidney injury8. acute liver failure9. acute heart failure10. acute poisoning, including chemical warfare agents11. acute psychosis12. acute coronary syndrome13. acute radiation and chemical injuries, including in field conditions and during emergencies14. acute cerebral insufficiency15. diabetic coma, including ketoacidotic, hyperosmolar, lactic acidosis coma16. electrical injury17. status epilepticus18. acute bleeding19. acute blood loss syndrome, including in field and emergency conditions20. sudden cardiac arrest | <ol style="list-style-type: none">21. collapse22. impaired consciousness and comatose states23. renal colic24. biliary colic25. acute anaphylactic reactions26. acute cardiac arrhythmias,27. cold injury, including in field conditions28. heat injury, including in field conditions29. venous and arterial thromboembolism30. convulsive syndrome31. drowning32. strangulation asphyxia33. normal labour34. shock35. snake, insect and animal bites36. penetrating wounds, including during combat operations37. burns, including in field conditions38. foreign bodies in the respiratory tract, gastrointestinal tract, ENT organs and eyes |
|--|---|

List 4 (laboratory and instrumental examinations):

1. pleural fluid analysis
2. ascitic fluid analysis
3. synovial fluid analysis
4. urine analysis according to Zimnitsky
5. urine analysis according to Nechiporenko
6. alpha-amylase activity in blood and urine, faecal elastase 1
7. blood proteins and their fractions, C-reactive protein
8. blood glucose, glycated haemoglobin,
9. oral glucose tolerance test
10. blood lipids and lipoproteins and their fractions
11. blood hormones
12. serum ferritin, iron and copper
13. creatinine, blood and urine urea, glomerular filtration rate
14. blood electrolytes
15. blood aminotransferases
16. total blood bilirubin and its fractions
17. coagulogram
18. blood uric acid
19. blood alkaline phosphatase
20. histomorphological examination of lymph node biopsy
21. histomorphological examination of parenchymal organ biopsy
22. histomorphological examination of mucosal biopsy
23. histomorphological examination of muscle and skin biopsy
24. histomorphological examination of the placenta
25. indoor environment assessment (microclimate parameters, natural and artificial lighting, bacteriological and chemical air contamination)
26. pulmonary function testing (spirometry)
27. standard 12-lead electrocardiogram
28. endoscopic examination of the bronchi
29. endoscopic examination of the digestive tract
30. echocardiography and Doppler ultrasound
31. stool (faeces) routine analysis
32. complete blood count
33. urinalysis (routine)
34. urine glucose and ketone bodies
35. general analysis of cerebrospinal fluid
36. general analysis of sternal puncture
37. General sputum analysis
38. comprehensive immunological blood profile
39. serological tests for infectious diseases
40. rapid tests for viral infections
41. amplification techniques for infectious diseases (PCR, LAMP)
42. serological tests for autoimmune diseases
43. chemical and bacteriological analysis of the external environment (ambient air, water bodies, soil)
44. microbiological examination of biological fluids and excretions
45. measurement of radiation (sound, vibration, ionising), individual radiometry.
46. Methods of instrumental visualisation of the thyroid gland
47. contrast-enhanced angiography
48. methods of instrumental imaging of the abdominal organs
49. methods of instrumental imaging of the thoracic organs
50. methods of instrumental imaging of the genitourinary system
51. methods of instrumental imaging of the foetus
52. methods of instrumental imaging of the skull, spine, spinal cord, bones and joints
53. methods of instrumental imaging of the breast
54. Tuberculin testing
55. multiphase fractional bile analysis and pH-metry of the stomach and oesophagus
56. chemical, organoleptic, bacteriological examination of food products and drinking water
57. cervical cytology (Pap smear)
58. measurement of ergonomic indicators of work heaviness and intensity

List 5 (medical procedures):

- | | |
|---|---|
| <ol style="list-style-type: none">1. performing indirect heart massage2. perform artificial respiration3. perform defibrillation using a manual automatic defibrillator-cardioverter4. perform standard 12-lead ECG recording5. temporarily control external bleeding6. perform primary surgical wound management, apply dressings, and remove skin sutures, including under field conditions7. apply tourniquets and use haemostatic agents, including in field conditions8. insert a nasogastric and orogastric tube9. perform transport immobilisation10. administer medicinal substances (intravenous jet and drip, intraosseous), including in field conditions11. provide peripheral venous access12. measure blood pressure13. restore airway patency14. perform urinary bladder catheterisation using a soft catheter15. perform anterior nasal tamponade, conduct clinical examination of the eyes and ENT organs16. perform skin-to-skin contact with the newborn and early breastfeeding17. perform a digital rectal examination and rectal speculum examination18. perform a digital rectal examination of the prostate19. perform clinical examination of the breasts20. perform pleural puncture21. perform laparocentesis22. determine blood group and Rhesus factor23. transfuse blood components and blood substitutes24. Perform bimanual and speculum examinations in women25. perform pelvimetry; | <ol style="list-style-type: none">26. perform external (Leopold's manoeuvres) and internal obstetric examinations;27. auscultate the foetus28. take swabs for bacterioscopic, bacteriological, and cytological examination29. palpate the thyroid gland30. examine and assess the external genitalia in boys31. assess the sexual development in children32. provide skin, ear, nasal cavity and eye care, and prevent pressure sores33. measure body temperature34. administer enemas35. prepare the patient for sputum, urine and stool collection36. administer medications (by inhalation, subcutaneously, intramuscularly, intravenously by jet and drip, intraosseously), including in field conditions37. collect blood samples for biochemical, haematological and serological testing38. assess anthropometric parameters (body weight, height, waist circumference) and the patient's nutritional status39. apply compresses (dry, hot, or cold)40. prepare the patient for exercise tolerance tests (treadmill test, bicycle ergometry)41. perform capillary blood glucose testing (glucometry) using a glucometer42. perform cardiac monitoring43. perform spirometry and peak flow measurement44. palpate lymph nodes45. perform percussion of internal organs46. assess the pulse in peripheral arteries47. auscultate the heart and blood vessels48. perform percussion and auscultation of the lungs49. palpate the abdomen50. palpate and assess joint function51. conduct a physical examination of the patient52. calculate parenteral nutrition |
|---|---|

Forms of certification of higher education applicants

Certification of graduates of the educational programme (applicants for a master's degree) in the speciality I2 "Medicine" in the field of knowledge I "Health Care and Social Security" is carried out in the form of a unified state qualification examination.

The unified state qualification examination (USQE) is conducted in accordance with the Procedure for conducting a unified state qualification examination for applicants for a master's degree in specialities in field of knowledge I "Health Care and Social Welfare," established by Resolution of the Cabinet of Ministers of Ukraine No. 334 of 28 March 2018 "On Approval of the Procedure for Conducting a Unified State Qualification Examination for Applicants for a Master's Degree in the Field of Knowledge I "Health Care and Social Welfare"(KROK 1, KROK 2, objective structured practical (clinical) exam), and ends with the issuance of a standard higher education document to the graduate awarding them a master's degree with the qualification: "Master of Medicine".

The Objective Structured Practical (Clinical) Examination (OSP(C)E) is conducted in accordance with Order No. 900 of the Ministry of Health of Ukraine dated 24 May 2024 "Amendments to the Procedure, Conditions and Terms for the Development and Conduct of a Unified State Qualification Examination and Criteria for Evaluating Results, approved by Order of the Ministry of Health of Ukraine dated 19 February 2019 No. 419, registered with the Ministry of Justice of Ukraine on 20 March 2019 under No. 279/33250."

Stages of the Unified State Qualification Examination

Stages of the USQE	Forms of state certification	Certification is carried out
Stage 1 (3rd year of study, 6th semester)	Integrated test exam KROK 1 (<i>assessment of professional competence in fundamental disciplines</i>)	by the Testing Centre at the Ministry of Health of Ukraine
	Examination in the English language for (<i>assessment of proficiency in professional English</i>)	by the Testing Centre under the Ministry of Health of Ukraine
	International exam in basic medicine (<i>assessment of professional competence in fundamental disciplines</i>)	Testing Centre at the Ministry of Health, with the involvement of the foreign agency assessing the quality of applicants' knowledge
Stage 2 (6th year of study, 12th semester)	Integrated test exam KROK 2 (<i>assessment level of professional competence in professionally-oriented disciplines</i>)	The Testing Centre under the Ministry of Health of Ukraine
	International exam on the basics of medicine (<i>assessment of professional competence in professionally-oriented disciplines</i>)	Testing Centre at the Ministry of Health, with the involvement of a foreign agency for assessment quality level knowledge of applicants
	Objective Structured Practical (Clinical) Examination - OSP(C)E (<i>assessment of the applicant's readiness for professional activity in accordance with the requirements of the higher education standard by demonstrating practical components of professional competence on a real object or model</i>)	Higher education institution (examination board)

Certification is carried out openly and publicly.

2.4 List of sources used

1. On higher education: Law of Ukraine No. 1556-VII / Verkhovna Rada of Ukraine. <https://zakon.rada.gov.ua/laws/show/1556-18>
2. On education: Law of Ukraine No. 2145-VIII / Verkhovna Rada of Ukraine. <http://zakon.rada.gov.ua/laws/show/2145-19>
3. On scientific and scientific-technical activity: Law of Ukraine No. 848-VIII / Verkhovna Rada of Ukraine. <https://zakon.rada.gov.ua/laws/show/848-19#Text>
4. National Classifier of Ukraine: Classifier of Professions DK 003:2010: Order of the State Consumer Standards Service of Ukraine dated 28 July 2010 No. 327 (va327609-10, current edition dated 29 December 2022). <https://zakon.rada.gov.ua/rada/show/va327609-10>
5. National Qualifications Framework: Resolution of the Cabinet of Ministers of Ukraine No. 1341 of 3 November 2011 (as amended by Resolutions of the Cabinet of Ministers No. 509 of 12 June 2019 and No. 519 of 25 June 2020) <https://zakon.rada.gov.ua/laws/show/1341-2011-п#Text>
6. On approval of the licensing conditions for educational activities of educational institutions: Resolution of the Cabinet of Ministers of Ukraine No. 1187 dated 30 December 2015 (Revised on 4 January 2024, basis - 1134-2023-p) <https://zakon.rada.gov.ua/laws/show/1187-2015-%D0%BF#Text>.
7. On approval of the list of fields of knowledge and specialities for which higher and pre-higher professional education is provided: Resolution of the Cabinet of Ministers of Ukraine dated 29 April 2015 No. 266 (*as amended by Resolution of the Cabinet of Ministers of Ukraine dated 30 August 2024 No. 1021*) <https://zakon.rada.gov.ua/laws/show/266-2015-%D0%BF#Text>
8. On approval of the List of specialities for which a degree is required to access professions subject to additional regulation: Order of the Ministry of Education and Science of Ukraine No. 673 dated 22 May 2020 <https://zakon.rada.gov.ua/laws/show/z0502- 20#Text>
9. On approval of the Procedure for conducting a unified state qualification examination for applicants for degrees of pre-higher professional education and higher education of the first (bachelor's) and second (master's) levels in the specialities of the field of knowledge "22 Health Care": Resolution of the Cabinet of Ministers of Ukraine No. 334 dated 28 March 2018 (as amended by Resolution of the Cabinet of Ministers No. 1024 dated 6 September 2024) <https://zakon.rada.gov.ua/laws/show/334-2018-%D0%BF#Text>
10. Regulations on the organisation of the educational process in healthcare institutions with the participation of scientific and pedagogical staff of higher education institutions that train higher education seekers in the field of healthcare: Resolution of the Cabinet of Ministers of Ukraine No. 1337 of 28 December 2020 <https://zakon.rada.gov.ua/laws/show/1337-2020-п#Text>.
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12. Strategy for the development of higher education in Ukraine for 2022-2032: Order of the Cabinet of Ministers of Ukraine dated 23 February 2022 No. 286-r. <https://zakon.rada.gov.ua/laws/show/286- 2022-r#Text>
13. Operational plan for the implementation of the Strategy for the Development of Higher Education for 2022-2032 in 2022-2024: Order of the Cabinet of Ministers of Ukraine No. 286-r of 23 February 2022. <https://zakon.rada.gov.ua/laws/show/286-2022-p#Text>
14. On approval of the Strategy for the Development of Physical Culture and Sports for the period until 2028: Resolution of the Cabinet of Ministers of Ukraine No. 1089 of 4 November 2020 <https://zakon.rada.gov.ua/laws/show/1089-2020-п#Text>
15. Recommendations on the strategic development of physical education and sports among students for the period until 2025: Order of the Ministry of Education and Science of Ukraine No. 193 of 15 February 2021. https://osvita.ua/legislation/Vishya_osvita/80881/
16. Order of the Ministry of Education and Science of Ukraine No. 1583 of 29 December 2023 "On Amendments to Certain Standards of Higher Education" (barrier-free strategy)" (clause 5)

17. Order of the Ministry of Education and Science of Ukraine No. 842 of 13 June 2024 "On Amendments to Certain Standards of Higher Education" (clause 89)
18. On Amendments to Certain Laws of Ukraine Regarding the Development of Individual Educational Trajectories and Improvement of the Educational Process: Law of Ukraine No. 3642-IX/ Verkhovna Rada of Ukraine. <https://zakon.rada.gov.ua/laws/show/3642-20#Text>
19. Amendments to the Procedure, conditions and terms for the development and conduct of a single state qualification examination and criteria for assessing results, approved by order of the Ministry of Health of Ukraine dated 19 February 2019 No. 419, registered with the Ministry of Justice of Ukraine on 20 March 2019 under No. 279/33250: Order of the Ministry of Health of Ukraine dated 24 May 2024 No. 900 <https://zakon.rada.gov.ua/laws/show/z0873-24#Text>
20. On approval of the Procedure for basic military training of Ukrainian citizens pursuing higher education and police officers: Resolution of the Cabinet of Ministers of Ukraine dated 21 June 2024 No. 734. <https://zakon.rada.gov.ua/laws/show/734-2024-%D0%BF#Text>

Matrix of Attainment of Programme Learning Outcomes (PLOs) through the Core Components of the Educational and Professional Programme

	OC 1	OC 2	OC 3	OC 4	OC 5	OC 6	OC 7	OC 8	OC 9	OC 10	OC 11	OC 12	OC 13	OC 14	OC 15
PLO 1	•		•								•	•	•		•
PLO 2				•	•	•	•	•	•	•					
PLO 3				•	•	•	•	•	•	•	•				
PLO 4							•	•	•			•			
PLO 5												•	•	•	
PLO 6													•	•	
PLO 7													•	•	
PLO 8															
PLO 9										•		•	•	•	
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				•				•			•				
PLO 24			•					•			•				
PLO 25		•	•					•			•	•			
PLO 26			•								•				
PLO 27	•	•													
PLO 28											•				
PLO 29												•			
PLO 30			•								•	•			
PLO 31			•									•			

