

224 TECHNOLOGIES OF MEDICAL DIAGNOSIS AND TREATMENT
Educational and professional program at the first (Bachelor) level
LABORATORY DIAGNOSTICS



The program's guarantor is **Yeromenko Rymma Fuativna**
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Program subject area	22 Health Care
Specialty	224 Technologies of medical diagnostics and treatment
The amount of the program	240 ECTS credits
The duration of the program	3 years 10 months / 2 years 10 months. / 1 year 10 months.
Form of study	A full-time education

Educational and professional program "Laboratory diagnostics" is aimed at forming the competences and skills of the laboratory scientist (medicine) to possess professional knowledge, modern methods, technologies of laboratory research; interpretation of research results in a variety of pathologies; maintenance of approved documentation and reporting.

Features of the educational and professional program

Availability of practice in clinical-diagnostic, biochemical, bacteriological, sanitary-hygienic laboratories.

Program components:

№	Name of the discipline
Compulsory discipline	
1	Introduction to the specialty (History of Medicine)
2	English
3	Medical biology
4	Medical and biological physics
5	Anatomy of a person
6	Latin language and medical terminology
7	Ukrainian language (in professional direction)
8	History and culture of Ukraine
9	Medical informatics
10	Medical chemistry
11	Physiology
12	Histology, cytology and embryology
13	The technique of laboratory work

14	Physical Education
15	Care for patients
16	Philosophy
17	Bioorganic chemistry
18	Dermatology, venereology with evaluation of research results
19	Analytical chemistry
20	Pediatrics with evaluation of research results
21	Pathophysiology
22	Pathomorphology with sectional course
23	Pharmacology and medical formulation
24	Clinical laboratory diagnostics
25	Microbiology, virology and immunology with microbiological diagnostics
26	Internal medicine with evaluation of research results
27	Biological chemistry
28	Infectious diseases with evaluation of research results
29	Surgery with evaluation of research results
30	Clinical chemistry
31	Oncology with evaluation of research results
32	Laboratory diagnosis of parasitic infestations
33	Hygiene with hygienic expertise
34	Military medical training and emergency medicine
Elective disciplines	
35	Ukrainian language
36	Propaedeutics of pediatrics
37	Propaedeutics of internal medicine
38	General surgery
39	Obstetrics and gynecology with evaluation of research results
40	Endocrinology with evaluation of research results
41	Occupational Health
42	Laboratory service. Assessment of analytical methods
43	Clinical and pharmacological aspects of complications of pharmacotherapy
44	Selected questions of enzymology and coagulation
45	Legislative base of microbiological research
46	History of the modern world
47	Culture of scientific language
48	Religious studies
49	Logic
50	Fundamentals of Constitutional Law of Ukraine
51	Politics
52	Ethics and aesthetics
53	Psychology of communication
54	Fundamentals of pedagogy
55	Deontology in medicine
56	Bioethics
57	Modern problems of molecular biology
58	Care for patients
59	Sexology

60	Diseases of civilization
61	Reproductive medicine
62	Certification of clinical laboratories in Ukraine
63	Bio-protection and biosecurity in microbiological and biomedical laboratories
64	Pre-implantation diagnostics
65	Modern requirements for laboratory research
66	Diagnosis of male in fertility
67	Methods of auxiliary reproductive technologies
Practical training	
68	Production practice (by specialty) in clinical diagnostic and bacteriological laboratories
69	Pre-diploma practice in clinical diagnostic, biochemical, bacteriological and sanitary-hygienic laboratories
Graduates certification	
70	Licensed Integrated Exam "Step B"
71	Complex state examination on disciplines: clinical laboratory diagnostics, clinical chemistry
72	Complex state examination of disciplines: microbiology, virology and immunology with microbiological diagnostics, hygiene with hygienic expertise

Employment and competitive advantage of graduates of the program

Graduate: bachelor – laboratory assistant (medicine) is able to performs pecified in DK 003-2010 Professional work:

- 3221 technician (medicine).

May hold a corresponding primary position:

- Senior laboratory assistant (medicine);
- Laboratory assistant in bacteriology;
- Immunologist;
- Laboratory of Clinical and Diagnostic Laboratory;
- Laboratory assistant (medicine);
- Laboratory assistant in pathoanatomical research;
- Laboratory of sanitary-hygienic laboratory;
- Laboratory assistant for ensiclaboratory.

A bachelor where training is underway for the educational program "Laboratory diagnostics" for the qualification of a doctor-laboratory assistant after bachelor's from of educational program in the specialty "Technologies of medical diagnostic sand treatment". Or may apply for programs of the second (master's) level in accordance with the Law of Ukraine "On Higher Education" from 07/01/2014 № 1556-VII on educational programs of other specialties.

Program learning outcomes

The bachelor of laboratory medicine must be able to apply the acquired knowledge and skills, in working with modern methods, technologies of laboratory research; correctly interpret the results of research with a variety of pathologies; competently carry out the maintenance of the approved documentation and reporting; to prepare preparation of equipment for the work place for a clinical and laboratory examination of a patient; to apply and correctly use laboratory equipment-tools (objects / objects, devices and devices). The

bachelor of laboratory medicine must be able to use modern equipment of histological, histochemical, clinical-diagnostic, biochemical, bacteriological, virological, immunological, cytogenetic, cytological, molecular genetic, sanitary-hygienic, pathoanatomical, forensic, parasitological and other laboratories according to state standards and Standards ISO 9000 and ISO 15189; to constantly search and analyze new scientific information from different sources; understand the responsibility for the own decisions and the results of the research.