

**Academic programme
component**

**31.05.01 General Medicine
(in a foreign language)
programme**

**B2.O.03 (II)
practical training code**

SYLLABUS

**Type of
practical
training**

**Practical training:
externship, diagnostics**

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Approved at the meeting of the
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Clarification

1. General provisions

Type of practical training: *externship*

Profile: *diagnostics*

Place of practical training (if present): *hospital*

Form: *practical training*

Volume: 6 credit points

Duration of practice is 4 weeks as per the approved academic schedule.

2. The results of training, correlated with the indicators of competencies achievement determined by the educational programme

Competency	Indicators of competency achievement	Discipline (module) training results
УК-9. Can apply basics of defectology to social and professional fields	ИД-3УК-9 Takes into account the individual characteristics of persons with disabilities in the implementation of social and professional contacts	<p>To know: individual characteristics of persons with limited health capabilities</p> <p>To be able to: plan and carry out professional activities with persons with disabilities</p> <p>To have: skills of interaction in the social and professional spheres with persons with disabilities.</p>
ОПК-1. Can implement moral and legal norms as well as ethical and deontological principles in professional activities	ОПК-1.3. Applies the principles of medical ethics and deontology when communicating between doctor-patient, doctor-medical workers and doctor-patient's relatives.	<p>To know:</p> <ul style="list-style-type: none"> - moral and ethical standards, rules and principles of professional medical behavior, rights of the patient and doctor, basic ethical documents of professional medical associations and organizations; - principles of interaction in the "doctor-patient" system in accordance with the norms of ethics and deontology; <p>To be able to:</p> <ul style="list-style-type: none"> - analyze and evaluate the social situation in a medical institution; - navigate the current regulatory legal acts on labor, apply the norms of labor legislation in specific practical situations; - protect the civil rights of doctors and patients of various ages; <p>To have:</p> <ul style="list-style-type: none"> - skills of interaction with patients in accordance with the standards of ethics and deontology. - skills of informing patients of various age groups, their relatives and loved ones in accordance with

		<p>the requirements of the rules of “informed consent”;</p> <ul style="list-style-type: none"> - skills in building professional relationships with medical workers in accordance with moral and legal standards
<p>OIK-2. Can implement measures to promote healthy lifestyle and health education and assess their effectiveness</p>	<p>OIK-2.3. Develops and participates in carrying out preventive measures in order to improve the level of health and prevent diseases of the patient (population).</p>	<p>To know:</p> <ul style="list-style-type: none"> - causes and ways of spreading infections of diseases of various etiologies; - techniques, methods for sanitary and hygienic education of the population, for disseminating knowledge about a healthy lifestyle; - principles of carrying out sanitary and educational activities on elements of a healthy lifestyle; - main directions of preventive measures aimed at improving the level of health and preventing diseases of the population; <p>To be able to:</p> <ul style="list-style-type: none"> - plan anti-epidemic measures and prevention of infectious diseases; - develop, organize and conduct sanitary and educational events in various directions on elements of a healthy lifestyle; <p>To have:</p> <ul style="list-style-type: none"> - techniques, methods for sanitary and hygienic education of the population, for disseminating knowledge about a healthy lifestyle; - skills in carrying out preventive measures aimed at improving the level of health and preventing diseases of the population;
<p>OIK-10. Can fathom the principles of modern IT and apply them to fulfil professional tasks</p>	<p>OIK-10.1. Knows the possibilities and principles of modern information technologies and uses them to solve the tasks of professional activity</p>	<p>To know:</p> <ul style="list-style-type: none"> - the importance of medical organization information systems (MOIS) in information support for the process of providing medical care at the level of a medical organization, including maintaining an electronic medical record of the patient; - the importance of MOIS in the processes of interaction with patients (the ability to record and self-register a patient for an appointment with a doctor, issuing electronic copies of medical documents to the patient);

		<ul style="list-style-type: none"> - the importance of MOIS in information interaction between medical institutions for referrals for laboratory and diagnostic examinations, for the provision of medical care; <p>To be able to:</p> <ul style="list-style-type: none"> - apply modern information technologies to solve professional problems; carry out an effective search for information necessary to solve professional problems using reference systems and professional databases; - use the MOIS; <p>To have:</p> <ul style="list-style-type: none"> - skills in using modern information technologies, the use of special software and automated information systems, including, for solving standard problems of professional activity
<p>ПК-2 Can diagnose a patient</p>	<p>ПК-2.1. Gathers complaints, patient history, and performs patient's complete physical examination.</p>	<p>To know:</p> <ul style="list-style-type: none"> - methods of interviewing and examining the patient, the main clinical symptoms of diseases, indications for prescribing an examination; - normal laboratory test results; - normal indicators of instrumental examination of the patient, including X-ray, CT, MRI <p>To be able to:</p> <ul style="list-style-type: none"> - collect anamnesis, conduct an examination, physical examination of the patient, formulate a preliminary diagnosis; - analyze the results of laboratory and instrumental examination of the patient; - draw up an examination plan, prescribe empirical treatment; <p>To have:</p> <ul style="list-style-type: none"> - methods of physical examination of the patient; - knowledge of decoding the results of laboratory and instrumental examinations; - knowledge to determine the examination plan, correct the treatment plan, make a final diagnosis, determine the need for consultation with specialists.

<p>ПК-5 Can gather and analyze academic and R&D information to fulfil professional tasks, take part in research and introduce new methods and practices aimed to protect public health</p>	<p>ПК-5.2. Analyzes the scientific literature and the results of scientific research, evaluates the level of evidence of the data obtained</p>	<p>To know:</p> <ul style="list-style-type: none"> - methods of organizing scientific research and assessing the reliability of the results obtained; - modern scientific research, the basics of using statistical methods in biomedical research; - the role of various modeling methods in the study of pathological processes, their capabilities, limitations and prospects <p>To be able to:</p> <ul style="list-style-type: none"> - formulate a scientific hypothesis, determine the goals and objectives of scientific activity, apply modern theoretical and empirical research methods, make calculations based on the results of their application, carry out statistical processing of the data obtained; - participate in scientific research, solve the problems posed in it, and evaluate the reliability of the data obtained; <p>To have:</p> <ul style="list-style-type: none"> - principles of operation of basic laboratory equipment, the basics of using evidence-based medicine methods when conducting scientific research; - skills in solving individual research and scientific-applied problems, methods of statistical processing of research results
<p>ПК-6 Can keep medical records and organize the work of paramedical personnel</p>	<p>ПК-6.4. Provides internal quality and safety control of medical activities within the scope of job responsibilities</p>	<p>To know:</p> <ul style="list-style-type: none"> - regulations and other documents defining the activities of medical organizations and medical workers; - organization of outpatient medical care, including at home; - medical and statistical indicators characterizing the health of the attached population; - rules for processing medical documentation in medical institutions at various levels; - job responsibilities of nursing and junior medical personnel; <p>To be able to:</p> <ul style="list-style-type: none"> - evaluate the organization of outpatient medical care, medical and statistical indicators

		<p>characterizing the health of the attached population;</p> <ul style="list-style-type: none"> - correctly draw up medical documentation (including in electronic form), work with personal data of patients, information constituting medical confidentiality; - control the performance of official duties by mid-level and junior medical personnel; <p>To have:</p> <ul style="list-style-type: none"> - organization of outpatient care for the population, including at home; - methods of assessing and analyzing medical and statistical indicators characterizing the health of the attached population; - skills in preparing medical documentation (including in electronic form), working with personal data of patients, information constituting medical confidentiality; - skills of monitoring the performance of official duties by mid-level and junior medical personnel
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3. Practical training contents

№	Training stage	Content; Type of work
1	2	3
1.	Initial stage (preparation)	<ol style="list-style-type: none"> 1. Introducing students to the externship supervisor from the university, the externship base, externship rules, and practice reporting documentation. 2. Introducing students to labour protection requirements, safety precautions, fire safety equipment. 3. Introducing students to the internal labour regulations of a medical organization. 4. Checking the results of medical examination of students 5. Introductory briefing 6. Distribution to places of practice in hospital departments and assignment to a practice supervisor from the hospital. 7. Assigning individual tasks for practical training to students.
2.	Main stage	<ol style="list-style-type: none"> 1. Diagnostic, therapeutic and health education activities as an assistant doctor in a hospital therapeutic or surgical department, maintaining medical records. 2. Keeping a practice schedule.
3.	Final stage	<ol style="list-style-type: none"> 1. Summing up the practice. 2. Preparation of reporting documentation on practice.

		3. Presentation of the practice report. 4. Interim assessment.
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4. Practical training report form

A report on practical training is mandatory; it includes individual task and work schedule (plan) for the training.

Other report materials are determined by FSAEI HE "MAU" local regulations on the students' training

5. Practical training support materials

- the practical training report form, including individual task and work schedule (plan) for the training, are presented in the electronic course in MAU LMS Moodle;

- the layout card of the formative assessment and interim assessment of training are presented in the electronic course in MAU LMS Moodle.

6. Practical training assessment materials

It is a component of the educational programme, developed in the form of a separate document, presented on MAU official website in the section [Информация по образовательным программам, в том числе адаптированным](#)

- a list of competencies and indicators of their achievement, formed during the training;
- a list of assessment tools for formative assessment and interim assessment;
- assessment criteria.

7. The list of main and supplementary literature

Main literature:

1. Mukhin, N. A. Propedevtika vnutrennikh boleznei : uchebnik / N. A. Mukhin, V. S. Moiseev. - 2-e izd. , ispr. i dop. - Moskva : GEOTAR-Media, 2023. - 848 s. - ISBN 978-5-9704-7981-0. - Tekst : elektronnyi // EBS "Konsul'tant studenta" : [sait]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970479810.html>
2. Kishkun, A. A. Klinicheskaya laboratornaya diagnostika : uchebnik : v 2 t. / A. A. Kishkun, L. A. Beganskaya. - 2-e izd. , pererab. i dop. - Moskva : GEOTAR-Media, 2023. - 784 s. - ISBN 978-5-9704-7341-2. - Tekst : elektronnyi // EBS "Konsul'tant studenta" : [sait]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970473412>.
3. Kishkun, A. A. Klinicheskaya laboratornaya diagnostika : tom 2 : uchebnik : v 2 t. / A. A. Kishkun, L. A. Beganskaya. - 2-e izd. , pererab. i dop. - Moskva : GEOTAR-Media, 2021. - 624 s. - ISBN 978-5-9704-6085-6. - Tekst : elektronnyi // EBS "Konsul'tant studenta" : [sait]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970460856>.
4. Petrov, S. V. Obshchaya khirurgiya : uchebnik / S. V. Petrov i dr. - 4-e izd. , pererab. i dop. - Moskva : GEOTAR-Media, 2020. - 832 s. : il. - 832 s. - ISBN 978-5-9704-5605-7. - Tekst : elektronnyi // EBS "Konsul'tant studenta" : [sait]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970456057.html>
5. Martynov, A. I. Vnutrennie bolezni : T. I. : uchebnik / pod red. Martynova A. I. , Kobalava Zh. D. , Moiseeva S. V. - Moskva : GEOTAR-Media, 2021. - 784 s. - ISBN 978-5-9704-5886-0. Rezhim dostupa: <http://www.studmedlib.ru/book/ISBN9785970458860.html>
6. Martynov, A. I. 23 Vnutrennie bolezni : T. II. : uchebnik / pod red. Martynova A. I. , Kobalava Zh. D. , Moiseeva S. V. - Moskva : GEOTAR-Media, 2021. - 704 s. - ISBN 978-5-9704-5887-7. - Rezhim dostupa: <http://www.studmedlib.ru/book/ISBN9785970458877.html>

Supplementary literature:

1. Kulikov, A. N. Propedevtika vnutrennikh boleznei v risunkakh, tablitsakh i skhemakh : uchebnoe posobie / pod red. A. N. Kulikova, S. N. Shulenina. - Moskva : GEOTAR-Media, 2021. - 624 s. - ISBN 978-5-9704-6166-2. - Tekst : elektronnyi // EBS "Konsul'tant studenta" : [sait]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970461662.html>
2. Ivashkin, V. T. Propedevtika vnutrennikh boleznei : uchebnik / V. T. Ivashkin. - 2-e izd., pererab. i dop. - Moskva : GEOTAR-Media, 2023. - 936 s. - ISBN 978-5-9704-7691-8, DOI: 10.33029/9704-7691-8-PRO-2023-1-936. - Elektronnaya versiya dostupna na saite EBS "Konsul'tant studenta" : [sait]. URL: <https://www.studentlibrary.ru/book/ISBN9785970476918.html>
3. Murtazin, A. I. Endokrinologiya. Standarty meditsinskoi pomoshchi. Kriterii otsenki kachestva. Farmakologicheskii spravochnik / sost. A. I. Murtazin. - Moskva : GEOTAR-Media, 2021. - 560 s. (Seriya "Standarty meditsinskoi pomoshchi") - ISBN 978-5-9704-6065-8. - Tekst : elektronnyi // EBS "Konsul'tant studenta" : [sait]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970460658.html>
4. Mkrumyan, A. M. Neotlozhnaya endokrinologiya / Mkrumyan A. M., Nelaeva A. A. - Moskva : GEOTAR-Media, 2019. - 128 s. - ISBN 978-5-9704-5147-2. - Tekst : elektronnyi // EBS "Konsul'tant studenta" : [sait]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970451472.html>

8. Professional databases and information reference systems

- 1) The state legal information system - the official website of legal information - URL: <http://pravo.gov.ru>
- 2) Information system "Single window of access to educational resources" - URL: <http://window.edu.ru>
- 3) Jaypeedigital (<https://www.jaypeedigital.com/home>) – online-platform of medical resources from Jaypee Brothers Medical Publishers
Introduction to the platform (in English): https://disk.yandex.ru/i/K3Q61Zerp_x5Kw
- 4) S Ebooks (Medical & Science) (<https://eduport-global.com/>) - electronic library of medical literature from CBS Publishers & Distributors Pvt. Ltd.
- 5) Legal reference system. Consultant Plus - URL: <http://www.consultant.ru/>
- 6) University Library Online <https://biblioclub.ru> (Access until May 29, 2025)
- 7) Electronic library system “Lan” <https://e.lanbook.com/> (Access from October 1, 2025)
- 8) Electronic library system “Yurait”, access until December 30, 2024.
- 9) Electronic library system “Student Consultant” <http://www.studentlibrary.ru/> (access until May 24, 2025. Access to [Медицина. Здравоохранение \(ВО\)](#) and [Медицина \(ВО\) ГЭОТАР-Медиа. Books in English](#))

9. The list of licensed and openly distributed software, including domestic production

- 1) Microsoft Office 2007 Package
- 2) ABBYY FineReader Optical text recognition system

10. Ensuring practical training undertaking for people with special needs

For students with special needs, the educational institution develops the form of conduct of practical training, taking into consideration students' needs, individual capabilities and health conditions (upon their request). As per the educational institution's decision, persons with reduced mobility may undertake some forms of practical training remotely. When designating places of educational and practical training to students, recommendations, given after medico-social

examination that is included in rehabilitation programme for people with special needs with the list of suggested work types and conditions, are taken into account.

11. The material and technical support of training

Practical training is conducted on the basis of current contracts on practical training of students between FSAEI HE “MAU” and organizations. The list of organization’s spaces for conducting the practical training is given in Appendix 2 to the Contract on practical training of students of FSAEI HE “MAU”.

12. Work load distribution as per the curriculum

The discipline (module) work load distribution by the forms of training	
Full-time	
Semester	Total hours
6	216
Interim assessment	
Graded credit	