

## Summary of the working program of the academic discipline

### «PROPAEDEUTICS OF INTERNAL DISEASES »

General Educational Program of higher education (specialist's degree programs)

31.05.01 GENERAL MEDICINE

Department: ENDOCRINOLOGY AND INTERNAL MEDICINE

#### 1. The purpose of mastering the discipline “Propaedeutics of internal diseases”.

1.1 As a result of mastering the discipline program, a graduate should have universal, general professional and professional competencies: UC – 1,4,5; GPC – 1, 4, 5,10; PC – 5, 6, 7, necessary to achieve work functions in accordance with the Professional standard General practitioner

#### 2. Position of the academic discipline in the structure of the General Educational Program (GEP).

2.1. The discipline “Propaedeutics of internal diseases” refers to the core part of Block 1 of GEP HE B1.B37. The discipline is taught in IV, V, VI semester/ 2-3 year of study.

#### 3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal UC – 1,4,5, general professional GPC – 1, 4, 5,10 and professional competencies PC – 5, 6, 7

№	Competence code	The content of the competence	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	Have practical experience
1.	UC-1	Student is able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions	MUC 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis MUC 1.2 Is able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on actions, experiment and experience MUC 1.3 Has practical experience: research of the problem of professional activity with the use of analysis, synthesis and other methods of intellectual activity; development of an action strategy for solving professional problems	methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis	gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on actions, experiment and experience	research of the problem of professional activity with the use of analysis, synthesis and other methods of intellectual activity; development of an action strategy for solving professional problems
2.	UC - 4	Student is able to apply modern communication technologies, including in a foreign language, for	MUC 4.1 Knows: the basics of oral and written communication in Russian and foreign languages, functional styles of the native language, requirements for business communication, modern means of information	basics of oral and written communication in Russian and foreign languages, functional styles of the native language,	express your thoughts in Russian and a foreign language in business communication	in writing texts in Russian and foreign languages related to professional activity; experience in

		academic and professional interaction	and communication technologies MUC 4.2 Can: express your thoughts in Russian and a foreign language in business communication MUC 4.3 Has practical experience in writing texts in Russian and foreign languages related to professional activity; experience in translating medical texts from a foreign language into Russian; experience in speaking Russian and foreign languages	requirements for business communication, modern means of information and communication technologies		translating medical texts from a foreign language into Russian; experience in speaking Russian and foreign languages
3.	UC-5	Student is able to analyze and take into account the diversity of cultures in the process of intercultural interaction	MUC 5.1 Knows: the main categories of philosophy, the laws of historical development, the basics of intercultural communication; the basic concepts of human interaction in the organization and the organization. MUC 5.2 will be able to: present professional information competently and in an accessible manner in the process of intercultural interaction; observe ethical norms and human rights; analyze the features of social interaction taking into account national, ethno-cultural, confessional characteristics MUC 5.3 Has practical experience in: productive interaction in a professional environment, taking into account national, ethno-cultural, confessional characteristics; overcoming communicative, educational, ethnic, confessional and other barriers in the process of intercultural interaction	the main categories of philosophy, the laws of historical development, the basics of intercultural communication; the basic concepts of human interaction in the organization and the organization	present professional information competently and in an accessible manner in the process of intercultural interaction; observe ethical norms and human rights; analyze the features of social interaction taking into account national, ethno-cultural, confessional characteristics	productive interaction in a professional environment, taking into account national, ethno-cultural, confessional characteristics; overcoming communicative, educational, ethnic, confessional and other barriers in the process of intercultural interaction
4.	GPC-1	is able to implement moral and legal norms, ethical and deontological principles in professional activity	GPCM 1.1 Knows: fundamentals of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical activity GPCM 1.2 is able to: apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving	fundamentals of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical activity	apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of	solving standard tasks of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of

			<p>professional tasks; apply rules and norms of interaction of a doctor with colleagues and patients (their legal representatives)</p> <p>GPCM 1.3 Has practical experience: solving standard tasks of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of legal aspects of medical activity</p>		<p>healthcare in solving professional tasks; apply rules and norms of interaction of a doctor with colleagues and patients (their legal representative)</p>	<p>legal aspects of medical activity</p>
5.	GPC-4	<p>is capable of using medical devices provided for by the procedure for providing medical care, as well as conducting examinations of the patient in order to establish a diagnosis</p>	<p>GPCM 4.1 Knows the methodology of complaints taking, history of present illness and personal history taking, the methodology of examination and physical examination; clinical picture, methods of diagnosis of the most common diseases; methods of laboratory and instrumental studies to assess the state of health, medical indications for research, rules for interpreting their results; international statistical classification of diseases and problems related to health (ICD); conditions requiring medical care in an emergency form; the procedure for the use of medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, care taking into account the standards of medical care</p> <p>GPCM 4.2 is able to: take complaints, history of present illness and personal history, identify risk factors and causes of diseases; apply methods of Physical examination of the patients; interpret the results of examination and physical examination of patients; diagnose the most common pathology in patients; identify cancer risk factors; formulate a preliminary diagnosis, make a plan for laboratory, instrumental and additional studies in patients in accordance with the procedures for medical care, clinical recommendations,</p>	<p>the methodology of collecting anamnesis of life and diseases, complaints from patients (their legal representatives); the methodology of examination and physical examination; clinical picture, methods of diagnosis of the most common diseases; methods of laboratory and instrumental studies to assess the state of health, medical indications for research, rules for interpreting their results; international statistical classification of diseases and problems related to health (ICD); conditions requiring medical care in an emergency form; the procedure for the use of medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care,</p>	<p>take complaints, history of present illness and personal history, identify risk factors and causes of diseases; apply methods of Physical examination of the patients; interpret the results of examination and physical examination of patients; diagnose the most common pathology in patients; identify cancer risk factors; formulate a preliminary diagnosis, make a plan for laboratory, instrumental and additional studies in patients in accordance with the procedures for medical care, clinical recommendations, taking into account the standards of medical care; refer patients to laboratory,</p>	<p>complaints taking, history of present illness and personal history taking, identifying risk factors and causes of diseases; examination and physical examination of patients; diagnosis of the most common diseases; identification of risk factors for major oncological diseases; formulation of a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional studies, consultations specialist doctors; referrals of patients to instrumental, referrals of patients for instrumental, laboratory, additional studies, consultations of specialist doctors in accordance with current medical care procedures, clinical</p>

			<p>taking into account the standards of medical care; refer patients to laboratory, instrumental and additional studies in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations with specialist doctors in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; refer patients to consultations with specialist doctors in accordance with the procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; interpret and analyze the results of consultations by specialist doctors of patients; interpret and analyze the results of the main (clinical) and additional (laboratory, instrumental) examination methods; to carry out differential diagnosis of diseases in patients; to identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of life-threatening, requiring urgent medical care; to use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the following issues providing medical care</p> <p>GPCM 4.3 Has practical experience in: collecting complaints, anamnesis of life and disease in patients (their legal representatives), identifying risk factors and causes of diseases; examination and physical examination of patients; diagnosis of the most common diseases; identification of risk factors for major oncological diseases; formulation of a</p>	<p>taking into account the standards of medical care</p>	<p>instrumental and additional studies in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations with specialist doctors in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; refer patients to consultations with specialist doctors in accordance with the procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; interpret and analyze the results of consultations by specialist doctors of patients; interpret and analyze the results of the main (clinical) and instrumental) investigation methods; to</p>	<p>recommendations, taking into account medical care standards; interpretation of data from additional (laboratory and instrumental) examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and health-related problems (ICD); differential diagnosis of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring urgent medical care; the use of medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) regarding the provision of medical care, assistance taking into account the standards of medical care</p>
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			<p>preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional studies, consultations specialist doctors; referrals of patients to instrumental, referrals of patients for instrumental, laboratory, additional studies, consultations of specialist doctors in accordance with current medical care procedures, clinical recommendations, taking into account medical care standards; interpretation of data from additional (laboratory and instrumental) examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and health-related problems (ICD); differential diagnosis of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring urgent medical care; the use of medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) regarding the provision of medical care, assistance taking into account the standards of medical care</p>		<p>carry out differential diagnosis of diseases in patients; to identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of life-threatening, requiring urgent medical care; to use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the following issues providing medical care</p>	
6.	GPC-5	<p>is able to evaluate morpho functional, physiological states and pathological processes in the human body to solve professional tasks Information literacy</p>	<p>GPCM 5.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems GPCM 5.2 is able to: evaluate the basic morpho functional data, physiological states and pathological processes in the human body GPCM 5.3. Has practical experience: evaluation of basic morpho functional data, physiological conditions and pathological processes in the human body when solving professional tasks</p>	<p>anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems</p>	<p>evaluate the basic morpho functional data, physiological states and pathological processes in the human body</p>	<p>evaluation of basic morpho functional data, physiological conditions and pathological processes in the human body when solving professional tasks</p>
7.	GPC-10	<p>is able to solve standard tasks of professional</p>	<p>GPCM 10. 1. Knows: the capabilities of reference information systems and</p>	<p>the capabilities of reference information</p>	<p>: apply modern information and</p>	<p>Has practical experience in the use of modern</p>

		<p>activity using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security</p>	<p>professional databases; methods of information retrieval, information and communication technologies; modern medical and biological terminology; fundamentals of information security in professional activities GPCM 10. 2 Is able to: apply modern information and communication technologies to solve the tasks of professional activity; carry out an effective search for information necessary to solve the tasks of professional activity using reference systems and professional databases; use modern medical and biological terminology; master and apply modern information and communication technologies in professional activity, taking into account the basic requirements of information security</p> <p>GPCM 10.3 Has practical experience in the use of modern information and bibliographic resources, the use of special software and automated information systems to solve standard tasks of professional activity, taking into account the basic requirements of information security</p>	<p>systems and professional databases; methods of information retrieval, information and communication technologies; modern medical and biological terminology; fundamentals of information security in professional activities</p>	<p>communication technologies to solve the tasks of professional activity; carry out an effective search for information necessary to solve the tasks of professional activity using reference systems and professional databases; use modern medical and biological terminology; master and apply modern information and communication technologies in professional activity, taking into account the basic requirements of information security</p>	<p>information and bibliographic resources, the use of special software and automated information systems to solve standard tasks of professional activity, taking into account the basic requirements of information security</p>
8.	PC-5	<p>is able to take complaints, history of present illness, personal history, perform a complete physical examination of the patient (inspection, palpation, percussion, auscultation), formulate a initial diagnosis and make a plan for laboratory and instrumental investigation of the patient</p>	<p>PCM 5.1 Knows: The legislation of the Russian Federation in the field of health protection, regulatory legal acts and other documents defining the activities of medical organizations and medical workers; methods of taking history, methods of complete physical examination of the patient (inspection, palpation, percussion, auscultation); etiology, pathogenesis and path morphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; regularities of functioning of a healthy human body and mechanisms of ensuring health from the standpoint of the theory of</p>	<p>the legislation of the Russian Federation in the field of health protection, regulatory legal acts and other documents defining the activities of medical organizations and medical workers; methods of history taking, method of physical examination of the patient (inspection, palpation, percussion, auscultation); etiology, pathogenesis and</p>	<p>to take complaints, history of present illness, personal history; perform a complete physical examination of the patient (inspection, palpation, percussion, auscultation), determine the order of volume, content and sequence of diagnostic measures and interpret its results;</p>	<p>has a practical experience to take complaints, history of present illness, personal history; perform a complete physical examination of the patient (inspection, palpation, percussion, auscultation), determine the order of volume, content and sequence of diagnostic measures and interpret its results</p>

			<p>functional systems; features of regulation of functional systems of the human body in pathological processes; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results</p> <p>PCM 5.2 is able to: collect complaints, anamnesis of the patient's life and illness and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the order of volume, content and sequence of diagnostic measures</p>	<p>path morphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; regularities of functioning of a healthy human body and mechanisms of ensuring health from the standpoint of the theory of functional systems; features of regulation of functional systems of the human body in pathological processes; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results</p>		
9.	PC- 6	<p>is able to refer the patient for laboratory, instrumental investigation, for consultation with specialist doctors if there are medical indications in accordance with the current procedures for providing medical care, on issues of providing medical care taking into account the standards of medical care, as well as to refer the patient for specialized medical care in inpatient</p>	<p>PCM 6.1 Knows: general issues of the organization of medical care to the population methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care</p> <p>PCM 6.2 is able to: justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency</p>	<p>general issues of the organization of medical care to the population methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; procedures for providing medical care, clinical recommendations (treatment</p>	<p>substantiate the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care</p>	<p>has practical experience to justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care</p>

		conditions or in a day hospital when availability of medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care	specialized, medical care			
10	PC-7	is able to carry out differential diagnostics with other diseases/conditions, including urgent ones, to make a diagnosis taking into account the current international statistical classification of diseases and health-related problems (ICD)	PCM 7.1 Knows: etiology, pathogenesis and path morphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; PCM 7.2 is able to: analyze the results of the patient's examination, if necessary, justify and plan the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during the consultations of the patient by specialist doctors; carry out differential diagnosis of diseases internal organs from other diseases	etiology, pathogenesis and path morphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results;	the results of the patient's examination, if necessary, justify and plan the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during the consultations of the patient by specialist doctors; carry out differential diagnosis of diseases internal organs from other diseases	has practical experience to analyze the results of the patient's examination, if necessary, justify and plan the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during the consultations of the patient by specialist doctors; carry out differential diagnosis of diseases internal organs from other diseases



#### 4. Volume of the academic discipline and types of academic work

Total labor intensity of the discipline is 10 CU ( 360 AH )

Type of educational work	Labor intensity		Labor intensity (AH) in semesters		
	volume in credit units (CU)	volume in academic hours (AH)			
Classroom work, including	5,55	200	88	56	56
Lectures (L)	1,44	52	26	14	12
Laboratory practicum (LP)*	-	-	-	-	-
Clinical Practical (P)	4,11	148	62	42	44
Seminars (S)	-	-	-	-	-
Student's individual work (SIW)	3,44	124	56	34	34
Mid-term assessment					
credit/exam ( <i>specify the type</i> )	1	36			36 exam
<b>TOTAL LABOR INTENSITY</b>	<b>10</b>	<b>360</b>	<b>144</b>	<b>90</b>	<b>126</b>

#### 5. Sections of the academic discipline and competencies that are formed

№	Competence code	Section name of the discipline
1.	UC-1,4,5 GPC-1,4,5,10	Introduction to propaedeutics of internal diseases
2.	UC-1,4,5 GPC- 1,4,5,10 PC-5,6,7	Methods of clinical examination of a patient. Taking history. Physical methods.
3.	UC-1,4,5 GPC- 1,4,5,10 PC-5,6,7	Respiratory system
4.	UC-1,4,5 GPC- 1,4,5,10 PC-5,6,7	Cardiovascular system
5.	UC-1,4,5 GPC- 1,4,5,10 PC-5,6,7	Digestive system
6.	UC-1,4,5 GPC- 1,4,5,10 PC-5,6,7	Urinary system
7.	UC-1,4,5 GPC- 1,4,5,10 PC-5,6,7	Hematopoietic system
8.	UC-1,4,5 GPC- 1,4,5,10 PC-5,6,7	Endocrine system
9.	UC-1,4,5 GPC- 1,4,5,10 PC-5,6,7	Musculoskeletal system
10.	UC-1,4,5 GPC- 1,4,5,10 PC-5,6,7	Urgent conditions in the clinic of internal diseases

