#### Summary of the working program of the academic discipline

## Name of the academic discipline: <u>"SELECTED ISSUES OF PROPAEDEUTICS OF</u> INTERNAL DISEASES"

**Specialty: GENERAL MEDICINE (31.05.01)** 

(code, name)

**Qualification:** GENERAL PRACTITIONER

# Department: <u>Faculty of International Medical Education</u> Department of Endocrinology and Internal Medicine

- 1. The purpose and objectives of mastering the academic discipline "SELECTED ISSUES OF PROPAEDEUTICS OF INTERNAL DISEASES"
  - 1.1. The purpose of mastering the discipline:

As a result of mastering the discipline program, a graduate should have universal, general professional and professional competencies: CC - 1,4,5; OPC - 1, 4, 5,10; PC - 5, 6, 7, necessary to achieve work functions in accordance with the Professional standard of a medical doctor (district therapist)

Universal competencies:

Systemic and critical thinking (category)

CC-1 is able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions

Communication.

UK-4 is able to apply modern communication technologies, including in a foreign language, for academic and professional interaction

Cross-cultural interaction

CC-5 is able to analyze and take into account the diversity of cultures in the process of intercultural interaction

General professional competencies:

Ethical and legal foundations of professional activity.

OPK-1 is able to implement moral and legal norms, ethical and deontological principles in professional activity

Diagnostic instrumental methods of examination

OPK-4 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

Etiology and pathogenesis

OPK-5 is able to evaluate morphofunctional, physiological states and pathological processes in the human body to solve professional tasks

Information literacy

OPK-10 is able to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security

Professional:

Conducting a patient examination in order to establish a diagnosis (labor function)

PC-5 is able to collect complaints, anamnesis of the patient's life and illness, conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and make a plan for laboratory and instrumental examinations of the patient

The PC-6 is able to refer the patient for laboratory, instrumental examination, 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 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

PC-7 is able to carry out differential diagnostics with other diseases/ conditions, including urgent ones, to establish a diagnosis taking into account the current international statistical classification of diseases and health-related problems (ICD)

#### 1.2. Tasks of the discipline:

- 1. To form knowledge of symptoms, syndromes, features of anamnesis, modern methods of clinical, laboratory and instrumental examination of patients with diseases of internal organs; etiology, pathogenesis, clinical manifestations, features of the course and possible complications occurring in typical form in adult patients of various age groups; diagnostic criteria of diseases and emergency conditions; methodology of diagnosis in according to the modern International Statistical Classification of Diseases ICD-10 (11)
- 2. To form the ability to determine the status of the patient: to collect anamnesis, to conduct a survey of the patient and / or his relatives, to conduct a physical examination of the patient (examination, palpation, percussion, auscultation, blood pressure measurement, etc.); to conduct an initial examination of all body systems.
- 3. To form the skills of: evaluating the results of physical examination of patients with diseases of internal organs; interpreting the results of laboratory, instrumental diagnostic methods; compiling an algorithm for making a detailed clinical diagnosis in accordance with the modern International Statistical Classification of Diseases ICD-10 (11)
- 4. To provide the opportunity to acquire practical experience in the diagnosis of diseases of internal organs in the conditions of a simulation center3.

#### 1.3. Requirements to the deliverables of mastering the discipline

At the end of the course of Propaedeutics of internal diseases, which includes a series of lectures, clinical practical classes, independent work, the student must:

Know

- Algorithm of examination of therapeutic patients, rules and stages of examination of the patient, physical methods of examination of the patient;
  - Anatomical and physiological, age and sexual characteristics of a healthy and sick person;
- The causes of the main pathological processes in the body and the mechanisms of their development; etiology, pathogenesis and preventive measures of the most common diseases;
- The main clinical symptoms and syndromes of diseases of internal organs, urgent conditions in patients with various therapeutic diseases, taking into account their course;
- Symptomatology of the most common diseases of internal organs, clinical picture, features of the course and possible complications of the most common diseases occurring in a typical form in different age groups;
- Classical diagnostic methods, their diagnostic capabilities in the examination of a patient with a therapeutic profile, modern methods of clinical, laboratory, instrumental examination of patients (immunological, endoscopic, radiation diagnostic methods);
- Methodology of diagnosis, diagnostic criteria. Principles of clinical diagnosis in a therapeutic patient in accordance with the modern International Statistical Classification of Diseases ICD-10 (11);
  - The structure of the medical history and the rules for filling it out and maintaining;
- Lexical minimum of general and terminological character, basic medical terminology in Latin and foreign languages;
  - Principles of ethics and deontology, rules of conduct of a doctor with colleagues, with

secondary and junior medical staff, with a patient, with his relatives;

• Factors shaping human health; diseases associated with the adverse effects of climatic and social factors.

Be able to:

- Conduct a survey of the patient or his relatives, collect anamnesis of life and history of the disease in order to determine the status of the patient and obtain complete information about the disease, establishing possible causes of its occurrence in typical cases;
- Assess the factors affecting the patient's physical and psychological health: professional, environmental, cultural, ethnic, religious, individual, family, social risk factors;
- Conduct a clinical examination of patients using physical methods (examination, percussion, palpation, auscultation, measurement of blood pressure, respiratory rate, pulse) and identify objective signs of the disease;
  - Conduct an initial examination of the patient's systems and organs;
- Identify the main pathological symptoms and syndromes, urgent conditions in patients with various therapeutic diseases, taking into account their course and substantiate them;
- Establish, substantiate and formulate a clinical diagnosis of the most common diseases of internal organs occurring in a typical form in accordance with the International Classification of Diseases ICD 10 (11);
- Assess the patient's condition and priorities for making a decision on the need to provide him with medical care: critical condition, pain syndrome, chronic disease, infectious disease, disability, geriatric problems;
- To plan the volume of additional laboratory and instrumental studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result;
- Decipher typical ECGs in 12 leads of a healthy person, as well as patients with the most frequent rhythm and conduction disorders, with ventricular myocardial hypertrophy, acute myocardial infarction and chronic forms of coronary artery disease;
  - Interpret the spirogram in obstructive and restrictive types of respiratory disorders;
  - Evaluate the phonocardiogram for mitral, aortic and tricuspid defects;
- Evaluate the results of a general blood test, urine, sputum, feces, pleural effusion, as well as a biochemical blood test;
- To determine changes in the main pulmonary syndromes from the radiograph of the lungs;
- Evaluate the results of ultrasound examination of internal organs and the results of echocardiography;
- Present the results of the examination of the patient in the form of a medical history with justification of the preliminary diagnosis, registration of a temperature sheet and drawing up a plan for further examination of the patient. To report the patient's medical history at a medical conference:
  - Work with scientific and medical literature;
  - Make a public presentation, report, and lead a discussion;
- To train patients and their relatives in basic hygienic measures of a health-improving nature, skills of self-control of basic physiological indicators that contribute to the preservation and promotion of health, disease prevention.
- To carry out their activities taking into account the moral, ethical and legal norms accepted in society, to keep medical secrets;
- Build and maintain working relationships with other members of the team; protect the rights of the doctor and the patient;
- Work with texts of professional content in a foreign language, use at least 900 terminological units and term elements;

Be able to:

Have practical experience:

• Applying medical knowledge in practice;

- Communication with medical personnel, with patients and their relatives, taking into account ethnic, confessional and cultural differences, ethical and deontological aspects of medical activity;
- Work with patients to inform them and their relatives in accordance with the requirements of the "informed consent" rules;
- The use of foreign languages to the extent necessary for communication and obtaining information from foreign sources, reading and writing skills in Latin clinical and pharmaceutical terms and recipes;
  - Work with modern medical scientific literature and regulatory documents;
  - Collaboration with colleagues of related specialties;
- Conducting a physical general clinical examination of the patient (survey, examination, palpation, percussion, auscultation, blood pressure measurement, assessment of pulse, respiration, ECG characteristics);
  - Filling in the inpatient patient's medical history;
- Carrying out diagnostic measures of pathological symptoms and syndromes, urgent conditions in patients with various therapeutic diseases, taking into account their course;
- Interpretation of the results of laboratory, instrumental studies and methods of radiation diagnostics;
- Making a clinical diagnosis in a therapeutic patient, taking into account generally accepted requirements and the International Classification of Diseases ICD10 (11);
- Development of a plan of therapeutic and preventive measures taking into account the peculiarities of the development and course of the disease;
- Work on teaching patients and their relatives basic hygienic measures of a health-improving nature, skills of self-control of basic physiological indicators that contribute to the preservation and promotion of health, disease prevention.;
- Work on a personal computer using modern statistical programs of medical statistics and analysis.
- 2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

The place of discipline in the structure of the OOP in the FGBOU IN the PIM of the Ministry of Health of Russia.

2.1. The discipline belongs to the academic cycle of Block 1 of the Discipline (modules), the variable part, the discipline of choice B1.V.DV.2

The discipline is studied in the sixth semester.

- 2.2. To study the discipline requires knowledge, skills and practical experience formed by previous disciplines and practices: physics, mathematics, chemistry, bioorganic chemistry, biology, anatomy, patient care, biochemistry, clinical aspects of biochemistry, normal physiology, methods of research of physiological functions, pathological physiology, clinical pathophysiology, pathological anatomy, clinical pathological anatomy, pharmacology, first aid, educational practice patient care of therapeutic profile.
- 2.3. The study of the discipline is necessary to gain knowledge, skills and practical experience formed by subsequent disciplines and practices: faculty therapy, occupational diseases, polyclinic therapy, hospital therapy, endocrinology, infectious diseases, rheumatology, gastroenterology, fundamentals of emergency care, industrial practice physician's assistant, industrial practice assistant physician outpatient clinic.

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

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies

pi	rofessional (G	PC) or/and professi	onal (PC) competencies			
		TDI			_	the discipline,
	Competen	The content of	Code and name of the	th	e students sho	ould:
$N_{\underline{0}}$	ce code	the competence	competence			
		(or its part)	acquisition metric	know	be able to	possess
1.	UC-1	is able to carry	1. IUK 1.1	methods of	to gain	research of
		out a critical	Knows: methods of	critical	new	the problem
		analysis of	critical analysis and	analysis	knowledge	of
		problem	evaluation of modern	and	based on	professional
		situations based	scientific	evaluation	analysis,	activity with
		on a systematic	achievements; basic	of modern	synthesis,	the use of
		approach, to	principles of critical	scientific	etc.; to	analysis,
		develop a	analysis	achieveme	collect	synthesis and
		strategy for	IUK 1.2 is able to:	nts; basic	data on	other
		actions of	gain new knowledge	principles	complex	methods of
			based on analysis,	of critical	scientific	intellectual
			synthesis, etc.; collect	analysis	problems	activity;
			data on complex	_	related to	development
			scientific problems		the	of an action
			related to the		profession	strategy for
			professional field;		al field; to	solving
			search for information		search for	professional
			and solutions based on		informatio	problems
			actions, experiment		n and	r
			and experience		solutions	
			IUK 1.3 Has practical		based on	
			experience:		actions,	
			researching the		experiment	
			problems of		and	
			professional activity		experience	
			using analysis,		on portonio	
			synthesis and other			
			methods of intellectual			
			activity; developing			
			strategies for solving			
			professional problems			
			methods of critical			
			analysis and evaluation			
			of modern scientific			
			achievements; basic			
			principles of critical			
			analysis to gain new			
			knowledge based on			
			analysis, synthesis,			
			etc.; collect data on			
			complex scientific			
L	1		complex scientific			

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			problems related to to			
			the professional field;			
			to search for			
			information and			
			solutions based on			
			actions, experiment			
			and experience			
2.	UC-4	is able to apply	4.1 Knows: the basics	fundament	express	writing skills
		modern	of oral and written	als of oral	your	related to
		communication	communication in	and written	thoughts in	professional
		technologies,	Russian and foreign	communic	Russian	activity;
		including in a	languages, functional	ation in	and a	experience in
		foreign	styles of the native	Russian	foreign	translating
		language(s), for	language, requirements	and	language	medical texts
		academic and	for business	foreign	in business	from a
		professional	communication,	languages,	communic	foreign
		interaction	modern means of	functional	ation	language into
			information and	styles of		Russian;
			communication	the native		experience in
			technologies	language,		speaking
			IUK 4.2 Can: express	requireme		Russian and
			your thoughts in	nts for		foreign
			Russian and a foreign	business		languages
			_	communic		languages
			language in business communication	ation,		
			Russian Russian	<i>'</i>		
				modern		
			Specialist	means of		
			4.3 Has practical	informatio		
			experience: drafting	n and		
			texts in Russian and	communic		
			foreign languages	ation		
			related to professional	technologi		
			activities; experience	es		
			in translating medical			
			texts from a foreign			
			language into Russian;			
3.	UC-5	is able to	IUK5.1Knows: the	the main	to present	skills of
		analyze and take	main categories of	categories	profession	productive
		into account the	philosophy, the laws of	of	al	interaction in
		diversity of	historical	philosophy	informatio	a
		cultures in the	development, the	, the laws	n	professional
		process of	basics of intercultural	of	competentl	environment,
		intercultural	communication; the	historical	y and in an	taking into
		interaction of	basic concepts of	developme	accessible	account
			human interaction in	nt, the	manner in	national,
			the organization	basics of	the process	ethno-
			5.2 will be able to:	intercultur	of	cultural,
			present professional	al	intercultur	confessional
			information	communic	al	characteristic
			competently and in an	ation; the	interaction	s;
			accessible manner in	basic	; to	overcoming
			the process of	concepts	observe	communicati
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			intercultural	of human	ethical	ve,
			interaction; observe	interaction	norms and	educational,
			ethical norms and	in the	human	ethnic,
			human rights; analyze	organizatio	rights; to	confessional
			the features of social	n	analyze the	and other
			interaction taking into		features of	barriers in
			account national,		social	the process
			ethno-cultural,		interaction	of
			confessional		taking into	intercultural
			characteristics		account	interaction
			IUK 5.3 Has practical		national,	
			experience in:		ethno-	
			productive interaction		cultural,	
			in a professional		confession	
			environment, taking		al	
			into account national,		characteris	
			ethno-cultural,		tics	
			confessional			
			characteristics;			
			overcoming			
			communicative,			
			educational, ethnic,			
			confessional and other			
			barriers in the process			
			of intercultural			
			interaction.			
4.	OPC-1	is able to	IOPK 1.1 Knows:	legal	apply rules	practical
		implement moral	fundamentals of	aspects of	and norms	experience:
		and legal norms,	medical ethics and	medical	of	solving
		ethical and	deontology;	activity to	interaction	standard
		deontological	fundamentals of	apply	of a doctor	tasks of
		_		ethical	with	professional
		principles in	i legistadon in die Heid	Cuncai		
		principles in professional	legislation in the field of healthcare: legal	0 02227 0 002		-
		professional	of healthcare; legal	norms and	colleagues	activity
			of healthcare; legal aspects of medical	0 02227 0 002	colleagues and	activity based on
		professional	of healthcare; legal aspects of medical activity	norms and principles of	colleagues and patients	activity based on ethical norms
		professional	of healthcare; legal aspects of medical activity IOPC 1.2 is able to:	norms and principles of behavior	colleagues and patients (their legal	activity based on ethical norms and
		professional	of healthcare; legal aspects of medical activity IOPC 1.2 is able to: apply ethical norms	norms and principles of behavior of a	colleagues and patients (their legal representat	activity based on ethical norms and deontological
		professional	of healthcare; legal aspects of medical activity IOPC 1.2 is able to: apply ethical norms and principles of	norms and principles of behavior of a medical	colleagues and patients (their legal	activity based on ethical norms and deontological principles
		professional	of healthcare; legal aspects of medical activity IOPC 1.2 is able to: apply ethical norms and principles of behavior of a medical	norms and principles of behavior of a medical worker	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when
		professional	of healthcare; legal aspects of medical activity IOPC 1.2 is able to: apply ethical norms and principles of behavior of a medical worker in the	norms and principles of behavior of a medical worker when	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting
		professional	of healthcare; legal aspects of medical activity IOPC 1.2 is able to: apply ethical norms and principles of behavior of a medical worker in the performance of their	norms and principles of behavior of a medical worker when performing	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with
		professional	of healthcare; legal aspects of medical activity IOPC 1.2 is able to: apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties;	norms and principles of behavior of a medical worker when performing their	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with colleagues
		professional	of healthcare; legal aspects of medical activity IOPC 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	norms and principles of behavior of a medical worker when performing their profession	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with colleagues and patients
		professional	of healthcare; legal aspects of medical activity IOPC 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	norms and principles of behavior of a medical worker when performing their profession al duties;	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal
		professional	of healthcare; legal aspects of medical activity IOPC 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	norms and principles of behavior of a medical worker when performing their profession al duties; knowledge	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representativ
		professional	of healthcare; legal aspects of medical activity IOPC 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 professional	norms and principles of behavior of a medical worker when performing their profession al duties; knowledge of modern	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representativ es),
		professional	of healthcare; legal aspects of medical activity IOPC 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 professional tasks; apply rules and	norms and principles of behavior of a medical worker when performing their profession al duties; knowledge of modern legislation	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representativ es), knowledge of
		professional	of healthcare; legal aspects of medical activity IOPC 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 professional tasks; apply rules and norms of interaction of	norms and principles of behavior of a medical worker when performing their profession al duties; knowledge of modern legislation in the field	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representativ es), knowledge of legal aspects
		professional	of healthcare; legal aspects of medical activity IOPC 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 professional tasks; apply rules and norms of interaction of a doctor with	norms and principles of behavior of a medical worker when performing their profession al duties; knowledge of modern legislation in the field of	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representativ es), knowledge of legal aspects of medical
		professional	of healthcare; legal aspects of medical activity IOPC 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 professional tasks; apply rules and norms of interaction of a doctor with colleagues and patients	norms and principles of behavior of a medical worker when performing their profession al duties; knowledge of modern legislation in the field of healthcare	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representativ es), knowledge of legal aspects
		professional	of healthcare; legal aspects of medical activity IOPC 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 professional tasks; apply rules and norms of interaction of a doctor with	norms and principles of behavior of a medical worker when performing their profession al duties; knowledge of modern legislation in the field of	colleagues and patients (their legal representat	activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representativ es), knowledge of legal aspects of medical

			IOPK 1.3 Has practical	problems		
			experience: solving	of		
			standard tasks of	profession		
			professional activity	al activity;		
			on the basis of ethical	ar activity,		
			norms and			
			deontological			
			principles when			
			interacting with			
			colleagues and patients			
			(their legal			
			representatives),			
			knowledge of legal			
			aspects of medical			
			activity			
5.	OPC-4	is able to use	IOPK 4.1 Knows the	collect	collect	collection of
].	010-4	medical devices	methodology for	complaints	complaints	complaints,
				anamnesis	-	anamnesis of
		provided for by	collecting anamnesis		anamnesis	
		the procedure for	of life and diseases,	of life and	of life and	life and
		providing	complaints from	disease in	disease in	disease in
		medical care, as	patients (their legal	patients	patients	patients
		well as to	representatives); the	(their legal	(their legal	(their legal
		conduct	methodology of	representat	representat	representativ
		examinations of	examination and	ives),	ives),	es),
		the patient in	physical examination;	identify	identify	identification
		order to establish	clinical picture,	risk factors	risk factors	of risk
		the diagnosis	methods of diagnosis	and causes	and causes	factors and
			of the most common	of	of	causes of
			diseases; methods of	diseases;	diseases;	diseases;
			laboratory and	apply	apply	examination
			instrumental studies to	methods of		and physical
			assess the state of	examinatio	examinatio	examination
			health, medical	n and	n and	of patients;
			indications for	physical	physical	diagnosis of
			conducting research,	examinatio	examinatio	the most
			rules for interpreting	n of	n of	common
			their results;	patients;	patients;	diseases;
			international statistical	interpret	interpret	identification
			classification of	the results	the results	of risk
			diseases and health-	of	of	factors for
			related problems	examinatio	examinatio	major
			(ICD); conditions	n and	n and	oncological
			requiring emergency	physical	physical	diseases;
			medical care; the	examinatio	examinatio	formulation
			procedure for the use	n of	n of	of a
			of medical devices in	patients;	patients;	preliminary
			accordance with	diagnose	diagnose	diagnosis,
			current medical	the most	the most	drawing up a
						plan for
			procedures, clinical	common	common	
			recommendations	pathology	pathology	instrumental,
			(treatment protocols)	in patients;	in patients;	laboratory,
			on the provision of	identify	identify	additional

medical care, care taking into account the standards of medical care IOPC 4.2 is able to: collect complaints, anamnesis of life and disease in patients (their legal representatives), identify risk factors and causes of disease development; apply methods of examination and physical examination of patients; interpret the results of examination and physical examination of patients; diagnose the most common pathology in patients; identify risk factors for cancer; formulate a preliminary diagnosis, make a plan for conducting laboratory, instrumental and additional studies in patients in accordance with the procedures for providing medical care, clinical recommendations. taking into account the standards of medical care; refer patients to laboratory, instrumental and additional studies in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations with specialist doctors in accordance with the

risk factors risk factors for for oncologica oncologica 1 diseases: 1 diseases: formulate formulate preliminar preliminar diagnosis, diagnosis, make a make a plan for plan for conducting conducting laboratory, laboratory, instrument instrument al and al and additional additional studies in studies in patients in patients in accordance accordance with the with the procedures procedures for for providing providing medical medical care, care. clinical clinical recommen recommen dations, dations, taking into taking into account account the the standards standards of medical of medical care; refer care; refer patients to patients to laboratory, laboratory, instrument instrument al and al and additional additional studies in studies in accordance accordance with the with the current current procedures procedures for for providing providing medical medical care. care. clinical clinical recommen recommen dations, dations,

taking into

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studies. consultations of specialist doctors: referrals of patients for instrumental, laboratory, additional studies. consultations of specialist doctors in accordance with current medical care procedures, clinical recommendat ions, 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 healthrelated problems (ICD); differential diagnosis of diseases; recognition of conditions arising from sudden acute diseases,

procedures for providing 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 basic (clinical) and additional (laboratory, instrumental) examination methods: conduct 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 medical care in an urgent form; to use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care IDOPK 4.3 Has practical experience in: collecting complaints, anamnesis of life and disease in patients (their legal representatives), identifying risk factors and causes of disease development; examination and physical examination of patients; diagnosis

account account the the standards standards of medical of medical care; refer care; refer patients for patients for consultatio consultatio ns with ns with specialist specialist doctors in doctors in accordance accordance with the with the procedures procedures for for providing providing medical medical care, care. clinical clinical recommen recommen dations, dations, taking into taking into account account the the standards standards of medical of medical care; care; interpret interpret and and analyze the analyze the results of results of consultatio consultatio ns by ns by specialist specialist doctors of doctors of patients; patients; interpret interpret and and analyze the analyze the results of results of basic basic (clinical) (clinical) and and additional additional (laboratory (laboratory instrument instrument al) al) examinatio examinatio n methods; n methods; conduct conduct

differential

diagnosis

differential

diagnosis

exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring medical care in an urgent form; the use of medical devices in accordance with current medical procedures, clinical recommendat ions (treatment protocols) on the provision of medical care, care taking into account the standards of medical care

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 of specialist doctors; 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 healthrelated 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 medical care in an urgent form; the use of medical devices in accordance with current medical procedures, clinical recommendations

of diseases of diseases in patients; in patients; to identify to identify clinical clinical signs of signs of sudden sudden acute acute diseases, diseases, conditions. conditions. exacerbati exacerbati ons of ons of chronic chronic diseases diseases without without obvious obvious signs of signs of lifelifethreatening threatening , requiring , requiring medical medical care in an care in an urgent urgent form; to form; to use use medical medical devices in devices in accordance accordance with with current current medical medical procedures procedures , clinical , clinical recommen recommen dations dations (treatment (treatment protocols) protocols) on the on the provision provision of medical of medical care. care. assistance assistance taking into taking into account account the the standards standards of medical of medical care care

PC-5	is able to assess morphofunctiona l, physiological conditions and pathological processes in the	instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care  IOPK-5.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy	anatomy, histology, embryolog y, topographi c anatomy,	to evaluate the main morphofun ctional data, physiologi	to check the main morphofuncti onal data, physiological conditions
PC-5	morphofunctiona l, physiological conditions and	instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care IOPK-5.1 Knows: anatomy, histology, embryology, topographic anatomy,	histology, embryolog y,	the main morphofun ctional	main morphofuncti onal data,
PC-5	morphofunctiona l, physiological	instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care  IOPK-5.1 Knows: anatomy, histology, embryology,	histology, embryolog	the main morphofun	main morphofuncti
PC-5	morphofunctiona	instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care  IOPK-5.1 Knows: anatomy, histology,	histology,	the main	main
PC-5		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care IOPK-5.1 Knows:	_		
PC-5	is able to assess	instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care	anatomy	to evaluate	to check the
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care,			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols)			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical recommendations			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical care, clinical			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the current procedures for			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in accordance with the			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use of medical devices in			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent medical care; the procedure for the use			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring urgent			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health- related problems			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results;			
		instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting			
		instrumental studies to assess the state of health, medical indications for conducting research,			
		instrumental studies to assess the state of health, medical indications for			
		instrumental studies to assess the state of health, medical			
		instrumental studies to assess the state of			
		instrumental studies to			
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				1	i e
		diseases; methods of laboratory and			
		methods of diagnosis of the most common			
		clinical picture,			
		physical examination;			
		methods of collecting			
		of medical care			
		account the standards			
		assistance taking into			
		medical care,			
		on the provision of			
			medical care, assistance taking into account the standards of medical care methods of collecting anamnesis of life and diseases, complaints from patients (their legal representatives); methods of examination and	on the provision of medical care, assistance taking into account the standards of medical care methods of collecting anamnesis of life and diseases, complaints from patients (their legal representatives); methods of examination and	on the provision of medical care, assistance taking into account the standards of medical care methods of collecting anamnesis of life and diseases, complaints from patients (their legal representatives); methods of examination and

		human body to solve professional tasks,	and physiology of human organs and systems IOPC 5. 2 is able to: evaluate the basic morphofunctional data, physiological states and pathological processes in the human body IOPK5. 3. Has practical experience: assessment of basic morphofunctional data, physiological conditions and	physiology , pathologic al anatomy and physiology of human organs and systems	cal conditions and pathologic al processes in the human body	and pathological processes in the human body
			pathological processes in the human body when solving			
7.	OPC-10	is able to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security a	professional tasks  OPK10. 1.Knows: the capabilities of reference information systems and professional databases; methods of information retrieval, information and communication technologies; modern medical and biological terminology; fundamentals of information security in professional activities IOPC10. 2.He 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	to master and apply modern information and communic ation technologi es in profession al activity, taking into account the basic requirements of information security	to apply modern information and communic ation technologies to solve the tasks of profession al activity; to carry out an effective search for information necessary to solve the tasks of profession al activity using reference systems and profession al databases; to use	to master and apply modern information and communicati on technologies in professional activity, taking into account the basic requirements of information security

and apply modern moder information and medic	rn
	cal
communication and	
technologies in biolog	gical
professional activity, terming	nolog
taking into account the y	
basic requirements of	
information security	
IOPC 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,	
the possibilities of	
reference information	
systems and	
professional databases;	
methods of	
information retrieval,	
information and	
communication	
technologies; modern	
medical and biological	
terminology;	
fundamentals of	
information security in	
professional activity	
8. PC-5 is able to collect IPK 5.1 Knows: The regular	arities collecting
complaints, legislation of the legislation of	complaints,
anamnesis of the Russian Federation in of the function	-
patient's life and the field of health Russian g of a	
illness, conduct a protection, regulatory Federation health	_
full physical legal acts and other in the field human	J
examination of documents defining of health body a	
the patient the activity medical protection, mecha	
(examination, organizations and regulatory ms of	,
palpation, medical workers; legal acts ensuri	_
percussion, methods of collecting and other health	1 7
auscultation), complaints, anamnesis documents from t	
formulate a of the patient's life and defining standp	
preliminary illness; the the of the	`
diagnosis and methodology of a activities theory	
draw up a plan   complete physical   of medical   function	onal percussion,

		T				
		for laboratory	examination of the	organizatio	systems;	auscultation)
		and instrumental	patient (examination,	ns and	features of	and interpret
		examinations of	palpation, percussion,	medical	regulation	its results;
		the patient	auscultation); etiology,	workers;	of	determining
			pathogenesis and	the method	functional	the order of
			pathomorphology,	of failure,	systems of	the volume,
			clinical picture,	anamnesis	the human	content and
			differential diagnosis,	of life and	body in	sequence of
			features of the course,	disease of	pathologic	diagnostic
			complications and	the patient;	al	measures
			outcomes of diseases	the method	processes;	
			of internal organs;	of	methods of	
			regularities of	complete	laboratory	
			functioning of a	physical	and	
			healthy human body	examinatio	instrument	
			and mechanisms of	n of the	al studies	
			ensuring health from	patient	to assess	
			the standpoint of the	(examinati	the state of	
			theory of functional	on,	health,	
			systems; features of	palpation,	medical	
			regulation of	percussion,	indications	
			functional systems of	auscultatio	for	
			the human body in	n);	research,	
			pathological processes;	etiology,	rules for	
			methods of laboratory	pathogenes	interpretin	
			and instrumental	is and	g their	
			studies to assess the	pathomorp	results	
			state of health, medical	hology,		
			indications for	clinical		
			research, rules for	picture,		
			interpreting their	differential		
			results	diagnosis,		
			IPK 5.2 is able to:	features of		
			collect complaints,	the course,		
			anamnesis of the	complicati		
			patient's life and illness	ons and		
			and analyze the	outcomes		
			information received;	of diseases of internal		
			conduct a complete			
			physical examination	organs;		
			of the patient (examination,			
			palpation, percussion,			
			auscultation) and			
			interpret its results;			
			determine the order of			
			volume, content and			
			sequence of diagnostic			
			measures			
9.	PC-6	Is able to refer	IPK 6 1. Knows:	general	to justify	substantiatio
/-		the patient for	general issues of	issues of	the need	n of the need
		laboratory,	organization of	organizatio	and scope	and scope of
<u> </u>		idooratory,	organization of	organizano	and scope	and scope of

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		instrumental	medical care to the	n of	of	laboratory
		examination, for	population methods of	medical	laboratory	examination
		consultation with	laboratory and	care to the	examinatio	of the
		specialist doctors	instrumental studies to	population	n of the	patient;
		if there are	assess the state of	methods of	patient; to	substantiatio
		medical	health, medical	laboratory	justify the	n of the need
		indications in	indications for	and	need and	and scope of
		accordance with	conducting research,	instrument	scope of	instrumental
		the current	rules for interpreting	al studies	instrument	examination
		procedures for	their results;	to assess	al	of the
		providing	procedures for	the state of	examinatio	patient;
		medical care,	providing medical	health,	n of the	justification
		clinical	care, clinical	medical	patient; to	of the need to
		recommendation	recommendations	indications	justify the	refer the
		s (treatment	(treatment protocols)	for	need to	patient for
		protocols) on the	on the provision of	conducting	refer the	consultations
		provision of	medical care, standards	research,	patient for	with
		medical care,	of medical care	rules for	consultatio	specialist
		taking into	IPK 6 2. Is able to:	interpretin	ns with	doctors;
		account the	justify the need and	g their	specialist	determinatio
		standards of	scope of laboratory	results;	doctors; to	n of medical
		medical care, as	examination of the	procedures	determine	indications
		well as to refer	patient; justify the	for	medical	for the
		the patient for	need and scope of	providing	indications	provision of
		specialized	instrumental	medical	for the	emergency,
		medical care in	examination of the	care,	provision	including
		inpatient	patient; justify the	clinical	of	emergency
		conditions or in	need to refer the	recommen	emergency	specialized,
		conditions of a	patient for	dations	, including	medical care
		day hospital in	consultations with	(treatment	emergency	
		the presence of	specialist doctors;	protocols)	specialized	
		medical	determine medical	on the	, medical	
		indications in	indications for the	provision	care	
		accordance with	provision of	of medical		
		the current	emergency, including	care,		
		procedures for	emergency specialized,	standards		
		the provision of	medical care	of medical		
		medical care,		care		
		clinical				
		recommendation				
		s (treatment				
		protocols) on the				
		provision of				
		medical care,				
		taking into				
		account the				
		standards of				
		medical care				
10.	PC-7	is able to carry	IPK 7.1 Knows:	etiology,	analyze the	interpretation
		out differential	etiology, pathogenesis	pathogenes	results of	of the results
		diagnostics with	and pathomorphology,	is and	the	of collecting
		other	clinical picture,	pathomorp	patient's	information

diseases/conditio ns, including urgent ones, to establish a diagnosis taking into account the current international statistical classification of diseases and health-related problems (ICD)

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; ICD IPK 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

hology, clinical picture, differential diagnosis, features of the course, complicati ons and outcomes of diseases of internal organs; methods of laboratory and instrument al studies to assess the state of health. medical indications for conducting research, rules for interpretin g their results; **ICD** 

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of

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organs from other diseases of

analysis of

the

examinatio about the patient's necessary, disease; justify and interpretation plan the of data scope of obtained additional during studies: laboratory examination interpret the results of the patient; collecting interpretation of data informatio n about the obtained patient's during disease; instrumental interpret examination the data of the obtained patient; during the interpret data laboratory obtained examinatio during n of the consultations patient; of the patient by specialist interpret the data doctors; differential obtained diagnosis of during the instrument diseases of internal examinatio organs from n of the other patient; diseases interpret the data obtained during the consultatio ns of the patient by specialist doctors; to carry out differential diagnostics of diseases of internal

		the results
		of the
		examinatio
		n of the
		patient, if
		necessary,
		substantiat
		ion and
		planning
		of the
		volume of
		additional
		studies

### 4. Sections of the academic discipline and competencies that are formed when mastering

them

№	Competen ce code	Section name of the discipline	The content of the section in teaching units
1	UC-1,4,5 OPK- 1,4,5,10 PK-5,6.7	patient with blood diseases. The main syndromes and diseases of the blood system 1. Principles of diagnosis in diseases	1. Features of complaints: general and specific. Anamnesis features: connection with past infections, chronic inflammatory diseases, etc.  2. Physical examination methods in the diagnosis of blood diseases. General examination: skin coloration, hemorrhages, traces of scratching. Examination of the oral cavity: swelling, puffiness, bleeding gums, redness, cracks, atrophied papillae of the tongue, necrotic changes on the tonsils, etc. Palpation of lymph nodes, liver, spleen: lymphadenopathy, hepatosplenomegaly.  3. Laboratory and instrumental research methods. Clinical blood analysis, bone marrow analysis, studies for hemorrhagic syndrome: coagulation of whole blood, duration of bleeding, blood clot retraction, capillary resistance, prothrombin index.  4. The main clinical syndromes in diseases of the hematopoietic organs: anemia syndrome, hemorrhagic syndrome, myeloproliferative, lymphoproliferative syndromes Clinical manifestations, laboratory diagnostics.  5. The main diseases of the hematopoiesis system. Anemia: posthemorrhagic, iron deficiency, hemolytic, aplastic. Leukemia: acute and chronic. Chronic myeloid leukemia and lymphocytic leukemia. Hemorrhagic diathesis: hemophilia, thrombocytopathies, vasopathies. Etiology, pathogenesis, clinical manifestations, diagnostic methods, principles of treatment.
2	UC-1,4,5 OPK- 1,4,5,10 PK-5,6.7	patient with diseases of the joints and musculoskeletal system. The main syndromes	<ol> <li>The basic principles of diagnosis of diseases of joints and muscles.</li> <li>Questioning. Features of complaints and anamnesis.</li> <li>Physical methods in rheumatology. General and local inspection.</li> <li>Examination of joints, muscles, bones. Palpation. Conducting special motor tests.</li> <li>Laboratory and instrumental research methods in rheumatology.</li> <li>Biochemical blood tests (protein fractions, acute phase proteins); uric acid, its clearance; rheumatoid factor; resoquin test. Immunological methods: CEC, immunoglobulins, cryoglobulins, antibodies to antigenic determinants of streptococcus, hepatitis B virus, C, cardiolipin, native DNA, collagen, complement content, HLA-27.</li> <li>Immunofluorescence methods: smears from the urethra, cervix, rectum on chlamydia, mycoplasma, ureaplasma.</li> </ol>

				4. Methods of radiation diagnostics in rheumatology. Radiography of bones and joints, spine, ultrasound of joints, CT and MRI of joints and
				spine, densitometry, arthroscopy, puncture of joints, biopsy of synovial membranes.
				5. The main diseases of the joints. Rheumatoid arthritis, ankylosing spodyloarthritis, osteoarthritis, gout, reactive arthritis, osteoporosis, Reiter's disease. Etiology, pathogenesis, clinical manifestations,
				laboratory and instrumental diagnostic methods, principles of treatment
	UC-1,4,5			Acute allergic reactions in the clinic of internal diseases. Urticaria.
	OPK-	Acute a	llergic	Quincke's edema. Anaphylactic shock. Causes, mechanisms of
3	1,4,5,10	diseases.		development, clinical manifestations, diagnostic methods, emergency
	PK-5,6.7			care

5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters			
	volume in credit units	volume in academic	4	5	6	
	(CU)	hours (AH)				
Classroom work, including	0,61	22	-	22		
Lectures (L)	0,17	6	-	6		
Laboratory practicum (LP)*	-	-	-	-	-	
Practicals (P)	-	-	-	-	-	
Seminars (S)	0,44	16	-	16	-	
Student's individual work (SIW)	-	-	-	-	-	
Mid-term assessment	0,39	14	-	14		
credit/exam (specify the type)						
TOTAL LABOR INTENSITY	-	36		36		