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

#### «Fundamentals of endocrinology»

General Educational Program of higher education (<u>specialist's degree programs</u>) 31.05.01 GENERAL MEDICINE

#### Department: ENDOCRINOLOGY AND INTERNAL MEDICINE

# **1.** The purpose of mastering the discipline (*participation in the formation of relevant competencies – specify the codes*):

form The aim of the course is clinical (conceptual) thinking, including to professional algorithm in solving practical problems section Clinic in this of the a of internal Diseases. То form medical professional behavior а in therapeutic deontological principles and clinic based ethical norms. а on То develop students' mental. sensory, motor skills and competencies perform their professional necessary for medical doctor to duties. а To contribute to the improvement of the general culture of a medical university student.

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

**2.1.** Tis a discipline of the choice of a professional cycle. The discipline is studied in the 12th semester/6 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) or/and general professional (GPC) or/and professional (PC) competencies

		PC) or/and professional (I	Code and name of		of mastering the dis students should:	scipline, the
№	Competenc e code	The content of the competence (or its part)	the competenc e acquisition metric	know	be able to	possess
1.	CC-1	ability to abstract thinking, analysis, synthesis			to assess the social factors affecting the state of the patient's physical and psychological health: cultural, ethnic, religious, individual, family, social risk factors (unemployment, violence, illness and death	proper maintenane of medical documentatio n and interpretatin of laboratory results, tools of laboratory diagnostic methods

				of relatives, etc.)	
2.	CC-5	readiness for self-development, self-realization, use of creative potential		to assess the social factors affecting the state of the patient's physical and psychological health: cultural, ethnic, religious, individual family, social risk factors (unemployment, violence, illness and death of relatives , etc.)	proper maintenance of medical documentatio n and interpretation of laboratory results , tools of laboratory diagnostic methods
3.	CC-7	willingness to use first aid techniques , methods of protection in emergency situations	Methods of protection in emergency situations	Provide first aid	Manipulations during first aid
4.	CC-8	willingness to work in a team, to perceive social, ethnic, confessional and cultural differences with tolerance	fundamentals of legislation Russian Federations for the protection of public health, the main regulatory and technical documents;		
5.	GPC-1	willingness to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology,willingne ss to solve standard tasks of professional activity using information,	etiology, pathogenesis and preventive measures and the most common diseases; modern classification and treatment of diseases; criteria for the diagnosis	to assess the patient's condition in order to make a decision on the need to provide him with medical care;	proper maintenance of medical records and;

	1				
		bibliographic	of various		
		resources, medical	diseases		
		and biological			
		terminology,			
		information			
		and communication			
		technologies and			
		taking into account			
		the basic requirements			
		of information			
		security			
6.	GPC-2	readiness for	terminology,	To present	Written
		communication in oral	using	the clinical	and oral
		and	uyusya in	picture,	speech in
		written forms in	professional	principles	Russian and
		Russian and foreign	literature	of treatment and	English to the
		languages to solve the		examination	extent
		tasks		in Russian	sufficient
		of professional		and	for
		activity		English.	reading
		activity		English.	professional
					literature and
					communicatio
					n with
					colleagues.
7.	GPC-4	ability and willingness	fundamentals		concagues.
7.	UrC-4	to implement ethical	of legislation		
		and	Russian		
		deontological	Federations		
		principles in	for		
		· ·			
		professional	the protection		
		activity	of public		
			health,		
			the main		
			regulatory		
			and technical		
	CDC 7	1.11	documents;		
8.	GPC-5	ability and willingness	etiology,	to assess	proper
		to analyze the results	pathogenesis	the	maintenance
		of their own activities	and	patient's	of medical
		to prevent	preventive	condition in	records
		professional mistakes	measures	order to	and;
			and the most	make a decision	
			common	on	
			diseases;	the need	
			modern	to provide	
			classification	him	
			and treatment	with medical	
			of	care;	
			diseases;		
			criteria		
			for the		
			diagnosis		
			of various		
			diseases		
9.	GPC-6	readiness to maintain			proper
· · ·					rr-

10.	GPC-7	medical records readiness to	Fundamental	Interpret	maintenance of medical records and; The main
		use basic physico-chemical, mathematical and other natural science concepts and methods in solving professional tasks	s of biomedical statistics used to describe the results of clinical trials	and interpret the results of clinical trials on which modern clinical practice is based	methods of data description, evaluation of variable differences in dependent and independent groups
11.	GPC-8	readiness for medical use of medicines and other substances and their combinations in solving professional tasks	The main groups of medicinal products used in the clinic of internal diseases, their dosages, multiplicity and routes of administratio n	To prescribe medications for various diseases of internal organs	Methods of evaluating the effectiveness of ti and the safety of the use of medicinal products
12.	GPC-9	ability to assess morphofunctional, physiological states and pathological processes in the human body for solving professional tasks	diagnostic methods, diagnostic capabilities of methods of direct examination of the patient therapeutic profile, modern methods of clinical, laboratory, instrumental examination of patients (including endoscopic diagnostic methods, ultrasound diagnostics); criteria for the diagnosis	determine the status of the patient: collect anamnesis, conduct a survey of the patient and/ or his relatives, conduct a physical examination of the patient (examination, palpation, auscultation, measurement of arterial pressure, determination of the properties of arterial pulse , etc.); conduct a primary	methods of general clinical examination I; interpretation and analysis of the results of laboratory tests, tools of laboratory diagnostic methods; the algorithm of a detailed clinical diagnosis; proper maintenance of medical records and

			of various	examination	
			diseases;	of systems and	
			clinical	organs:	
			picture,	endocrine,	
			features	immune,	
			of the course	respiratory,	
			and	cardiovascular,	
			possible	blood and	
			complication	hematopoietic	
			s of the most	-	
				organs	
			common	of the digestive	
			diseases	system,	
			occurring	urinary	
			in a typical	system,	
			form	musculoskeletal	
			in various	and	
			age	joints;	
			groups;	fill	
				out a medical	
1				history	
13.	GPC-11	readiness for the use	Fundamental	To register	Methods
13.	010-11	of medical devices		U U	of functional
			S	an ECG	or functional
		provided	of the tool	using	
		for by the procedures	for laboratory	a portable	diagnostics
		for the provision	diagnostics	electrocardiograp	in the clinic
1		of medical care	of internal	h	of internal
			diseases	graph	diseases
14.	PC-1	ability and readiness	The main	To carry	Skills
		to	methods		of conducting
		implement a set	of primary	out educational	classes in
		of measures	and	work	schools for
		aimed at	secondary	among	patients with
		preserving and	prevention	the population	diseases
		strengthening	and	and	of
		0 0	diseases		
		health and including		in groups	internal
		the	of internal	of patients	organs
		formation	organs		
		of a healthy lifestyle,			
		prevention			
		of the occurrence and			
		(or)			
		spread			
		of diseases, their early			
		diagnosis,			
		identification			
		of the causes and			
		conditions of their			
		occurrence and			
		development,			
		as well as aimed at			
		eliminating the			
		harmful			
		effects on			
		human health of			
		environmental factors			
1					

15	DC 5	readiness to collect	diagnostia	determine	matheda
15.	PC-5		diagnostic		methods
		and	methods,	the status	of general
		analyze patient	diagnostic	of the patient: collect	clinical examinationI;
		complaints, medical history data,	capabilities of methods	anamnesis,	· · · ·
		-	of direct	conduct	interpretation and
		examination results,	examination		
		laboratory, instrumental,		a survey	analysis of the results
		,	of the patient	of the patient and/ or his	
		pathoanatomic and other studies in order	therapeutic profile,	relatives	of laboratory
		to recognize the	modern	, conduct	tests, tools
		condition	methods	a physical	
		or establish the	of clinical,	examination of	of laboratory diagnostic
		presence or absence	laboratory,	the patient	methods;
		of the disease	instrumental	(examination,	the algorithm
			examination	palpation,	of a detailed
			of patients	auscultation,	clinical
			(incl	measurement	diagnosis;
			endoscopic	of arterial	proper
			radiologists	pressure,	maintenance
			Czech	determination	of medical
			methods,	of the properties	records
			ultrasound	of arterial	and
			diagnostics);	pulse, etc.);	
			criteria	conduct	
			for the	a primary	
			diagnosis	examination	
			of various	of systems and	
1			diseases;	organs:	
1			clinical	endocrine,	
1			picture,	immune,	
1			features	respiratory,	
			of the course	cardiovasculr,	
			and	blood and	
			possible	hematopoietic	
			complication	organs	
			s	of	
			of the most	digestive,	
			common	urinary,	
			diseases	musculoskeletal	
			occurring	and	
			in a typical	joints;	
			form	fill	
			in various	out a medical	
			age	history	
16	PC-6	the shility to	groups;		methods
10.	rC-0	the ability to determine	diagnostic	nationt status	of general
		in patients the main	diagnostic methods,	patient status: collect	clinical
		pathological	diagnostic	anamnesis,	examination
		conditions,	capabilities	conduct	I;
		symptoms,	of methods	a survey	interpretation
		disease syndromes,	of direct	of the patient	and
		nosological forms in	examination	and/or his	analysis of the
		accordance with	of the patient	relatives,	results
		the International	therapeutic	conduct	of laboratory
		Statistical	profile,	a physical	tests,
		Statistical	prome,	a physical	iesis,

			1		1. 1
		Classification of	modern	examination of	tools
		Diseases and	methods	the patient	of laboratory
			of clinical,	(examination,	diagnostic
		Health-Related	laboratory,	palpation,	methods;
		Problems (ICD)	instrumental	auscultation,	the algorithm
			examination	measurement	of a detailed
				of arterial	clinical
			of patients	pressure,	diagnosis;
			(incl	determination	proper
			young	of the properties	maintenance
			endoscopic	of arterial	of medical
			Czech	pulse, etc.);	records
				conduct	and
			radiologists		and
			Czech	a primary	
			methods,	examination	
			ultrasound	of systems and	
			diagnostics);	organs:	
			criteria	endocrine,	
			for the	immune,	
			diagnosis	respiratory,	
			of various	cardiovasculr,	
			diseases;	blood and	
			clinical	hematopoietic	
			picture,	organs	
			features	of	
			of the course	digestive,	
			and	urinary,	
				musculoskeletal	
			possible		
			complication	and	
			S	joints;	
			of the most	fill	
			common	out a medical	
			diseases	history	
			occurring		
			in a typical		
			form		
			in various		
			age		
			groups;		
17	PC-7	readiness to carry	The main	To identify	By the
1 / •		out the examination of	criteria	signs	method
		temporary	for temporary	of persistent	of
		disability,	disability	disability	ascertaining
			of the	in	U U
		participation in the			the biological causes of
		medical and social	community in	diseases	
		examination, the	diseases	of internal	human death
		statement	of internal	organs	
		of biological death	organs		
		of a person			
18.	PC-8	the ability to	Algorithms	Develop	Skills
		determine the tactics	for diagnosis	a plan	to implement
		of managing patients	and treatment	for self-	the developed
		with	of major	examination	treatment plan
		various	diseases	and treatment	and
		nosological forms	of internal	for	examination
		nosorogicai torins	organs	diseases	I am a patient
			Julio		-
				of internal	with

				organs	pathology
				C	of internal
					organs
19.	PC-10	readiness to provide	Symptoms	To provide	Skills
		medical care in	of acute	medical	of providing
		case of sudden acute	underlying	assistance	medical
		diseases, conditions,	conditions	in	care in
		exacerbation of	encountered	case of	exacerbations
		chronic	in the Clinic	exacerbations	of chronic
		diseases that are not	of Internal	of major	diseases
		accompanied	Diseases	chronic	
		by a threat to the		diseases	
		patient's life and		of internal	
		do not require		organs	
		emergency			
		medical care			
20.	PC-11	readiness to	Symptoms	Provide	Skills
		participate in	of acute	emergency	of providing
		the provision of	underlying	medical	emergency
		emergency	conditions	care in	medical
		medical care in	encountered	case of	care for
		conditions requiring	in the Clinic	exacerbations	exacerbations
		urgent medical	of Internal	of major	of chronic
		intervention	Diseases	chronic	diseases
				diseases	of 10
					internal
0.1	PC-14		The main	The day	organs Skills
21.	PC-14	readiness to determine		To determine	
		the need for the use of natural	methods of non	indications for	of non
		therapeutic factors,		spa treatment for	-drug
		medicinal,	-drug treatment	major	management of diseases
		non-drug	of major	diseases	of m
		therapy and other	diseases	of internal	internal
		methods	of internal	organs	organs
		in patients in need of	organs	organs	organs
		medical rehabilitation	organs		
		and spa			
		treatment			
22.	PC-15	readiness to teach	The main	To carry	Skills
		patients and their	methods	out educational	of conducting
		relatives basic	of primary	work	classes in
		hygienic	and	among	schools for
		measures	secondary	the population	patients with
		of a health-improving	prevention	and	diseases
		nature, skills	and	in groups	of
		of self-control of basic	diseases	of patients	internal
		physiological	of internal		organs
		indicators	organs		
		that contribute			
		to the preservation			
		and promotion			
		of health,			
		disease prevention			
23.	PC-16	readiness for	The main	To carry	Skills
		educational	methods	out educational	of conducting
		activities to	of primary	work	classes in

		1••• /	r	1		
		eliminate		and	among	schools for
		risk factors and		secondary	the population	patients with
		develop		prevention	and	diseases
		healthy lifestyle skills		and	in groups	of
				diseases	of patients	internal
				of internal		organs
				organs		
24.	PC-20	readiness to analyze		The main	Make a	The skills
		and		methods	presentation	of preparing
		publicly		of biomedical	to colleagues	a report with
		present		statistics		the use
		medical information		used in		of multimedia
		based on evidence		the analysis		equipment
		-based medicine		and		
				description		
				of the results		
				of clinical		
				trials		
25.	PC-21	ability to participate in		diagnostic	determine	methods
		scientific research		methods,	the status	of general
				diagnostic	of the patient:	clinical
				capabilities	collect	examination;
				of methods	anamnesis,	interpretation
				of direct	conduct	and
				examination	a survey	analysis of the
				of the patient	of the patient	results
				therapeutic	and/ or his	of laboratory
				profile,moder	relatives	tests,
				n methods	, conduct	tools
				of clinical,	a physical	of laboratory
				laboratory,	examination of	diagnostic
				instrument	the patient	methods;
				of laboratory	(examination,	the algorithm
				examination	palpation,	of a detailed
				of patients	auscultation,	clinical
				(incl	measurement	diagnosis;
				yuchaya	of arterial	proper
				endoscopiche	pressure,	management
				ski,	determination	of medical
				radiological	of arterial pulse	documentatio
				methods,	properties,	n and
				ultrasound	etc.);	n anu
					cic.),	
				diagnostics);		

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

Type of educational work	Labor i	ntensity	Labor intensity (AH) in
	volume in	volume in	semesters
	credit units	academic	12 semester
	(CU)	hours (AH)	
Classroom work, including			
Lectures (L)	0,28	10	10
Laboratory practicum (LP)*	-	-	-
Practicals (P)	0,94	34	34
Seminars (S)	-	-	-

Student's individual work (SIW)	0,78	28	28
Mid-term assessment			
credit/exam (specify the type)			credit
TOTAL LABOR INTENSITY	2	72	72

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

№	Competence code	Section name of the discipline
1	(CC-1, 4, 7, 8); (GPC-1, 2, 4, 5, 6, 7, 8, 9, 11); (PC -1, 5, 6, 7, 8, 10, 14, 16, 20, 21, 22)	Type 1 and type 2 diabetes mellitus
2	(CC-1, 4, 7, 8); (GPC-1, 2, 4, 5, 6, 7, 8, 9, 11); (PC -1, 5, 6, 7, 8, 10, 14, 16, 20, 21, 22)	Diseases of the thyroid and parathyroid glands
	(CC-1, 4, 7, 8); (GPC-1, 2, 4, 5, 6, 7, 8, 9, 11); (PC -1, 5, 6, 7, 8, 10, 14, 16, 20, 21, 22)	Diseases of the pituitary gland and adrenal glands