Summaryof the working program of the academic discipline

«Pharmacology»

General Educational Program of higher education (<u>specialist's degree programs</u>) 33.05.01 Pharmacy

Department: ______general and clinical pharmacology __

1. The purpose of mastering the discipline *participation in the formation of relevant competencies*: UC-1 (IUC-1.4), GPC-2 (IGPC-2.1, IGPC-2.2, IGPC-2.3), PC-3 (IPC-3.1, IPC-3.2, IPC-3.3)

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

2.1. The discipline refers to the core part of Block 1 of GEP HE

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

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

№ Compete nce code The cont competer	ent of the		ame	As a result of mastern	ng the disciplin	ne the students		
$\mathbb{N}_{\mathbb{N}}$ Compete competer	ont of the	Code and name			ing the discipline, the students			
nce code competer		of the		should:				
1000000	-	competence						
pa	part) acquisition		on	know	be able to	possess		
		metric						
	2	IUC	1.4.	• General laws of the	• identif	 practical 		
critical and		Develops	and	pharmacokinetics	y groups	experience in		
problem	situations	substantiates	s a	and	of drugs	using		
based	on a	strategy	for	pharmacodynamics	for the	normative,		
systematic		solving	а	of drugs (PK AND	treatment	reference and		
approach,	to	problem		PD);	of a	scientific		
develop a	strategy	situation on	n the	• PK AND PD	certain	literature to		
of actions		basis	of	belonging to certain	disease;	solve		
		systemic	and	pharmacological	 predict 	professional		
		interdiscipli		group,	and	tasks;		
		approaches.		pharmacodynamics	evaluate	 practical 		
				and	adverse	experience in		
				pharmacokinetics of	drug	determining		
				drugs, indications,	reactions	groups of		
				side effects,	(ADR);	drugs for the		
				contraindications	 provid 	treatment of a		
				• Types of drug-	e	certain		
				drug interactions	pharmace	disease,		
				C C	utical	assessing		
					informati	ADR,		
					on and	implementing		
					counselin	pharmaceutica		
					g	1 in-formation		
					-	and consulting		
2. GPC-2 able to	11 2	IGPC	2.1.	• General principles	• to define	 practical 		
knowledg		Analyzes	the	of pharmacokinetics	groups of	experience in		
morphofu	nctional	pharmacokinetic		and	drugs for	using		
features,		s and		pharmacodynamics	the	normative,		
physiolog		pharmacodynam		of drugs (PK AND	treatment of	reference and		
conditions	and	ics of a	drug	PD);	a certain	scientific		
pathologic	al	based	on	• PK AND PD	disease;	literature to		

		processes in the	U U	belonging to certain	• to analyze	solve
		human body to	about	pharmacological	the effect of	professional
	solve professional		morphofunction	group,	drug on the	tasks;
		tasks	al features,	pharmacodynamics	totality of	 practical
			physiological	and	their	experience in
			conditions and	pharmacokinetics of	pharmacolo	determining
			pathological	drugs, indications,	gical	groups of
			processes in the	side effects,		drugs for the
			human body	contraindications;	properties	treatment of a
			IGPC 2.2.		and the	certain
				• order prescription	ability to	
			Explains the	of a drug and	use drugs	disease,
			main and side	registration of	for	assessing
			effects of drugs,	prescription forms	therapeutic	ADR,
			taking into		treatment of	implementing
			account		the adult	pharmaceutic
			morphofunction		population;	al in-
			al features,		• to predict	formation
			physiological		and	and
			conditions and		evaluate	consulting
			pathological		adverse	-
			processes in the		drug	
			human body		reactions;	
			IGPC -2.3.		-	
			Takes into		• the use of	
			account		prescription	
			morphofunction		drugs and	
			al features,		counselling	
			physiological			
			conditions and			
			pathological			
			processes in the			
			human body			
			when choosing			
			over-the-counter			
	DG A	1.1	medications			
3.	PC-3	capable of	IPC-3.1.	• General principles	• to define	• practical
		providing	Provides	of pharmacokinetics	groups of	experience in
		pharmaceutical	information and	and	drugs for	using
		information and	consulting	pharmacodynamics	the	normative,
		consulting during	assistance to	of drugs (PK AND	treatment of	reference and
		the release and sale	visitors of a	PD);	certain	scientific
		of medicinal	pharmacy	• PK AND PD	diseases;	literature to
		products for	organization	belonging to certain	• to analyze	solve
		medical use	when choosing	pharmacological	the effect of	professional
			medicines	group,	drug on the	tasks;
			IPC-3.2.	pharmacodynamics	totality of	 practical
			Informs medical	and	their	experience in
			professionals	pharmacokinetics of	pharmacolo	determining
			about	drugs, indications,	gical	groups of
			medicines, their	side effects,	U	drugs for the
			synonyms and	contraindications;	properties	treatment of a
			analogues,		and predict	certain
			possible side	• Drug – drug	and	disease,
			effects	interactions	evaluate	
					adverse	assessing
			IPC-3.3. Takes a		drug	ADR,
			decision on the		reactions;	implementing
			replacement of		• to provide	pharmaceutica
			I	l		

the prescribed		pharmaceut	1 in-formation
medicinal		ical	and consulting
product with		counselling	
synonymous or			
analogous drugs			
in the prescribed			
manner based			
on information			
about groups of			
medicinal			
products and			
synonyms			
within the same			
international			
non-patent name			
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4. Volume of the academic discipline and types of academic work

Total labor intensity of the discipline is __9__CU (_324__AH)

Type of educational work	Labor in	ntensity	Labor intensity (AH) in		AH) in
	volume in credit	volume in		semester	
	units (CU)	academic hours	5	6	7
		(AH)			
Classroom work, including	4,83	174	66	64	44
Lectures (L)	1,06	38	16	14	8
Laboratory practicum (LP)*	does not provide				
Practicals (P)	3,78	136	50	50	36
Seminars (S)	does not provide				
Student's individual work (SIW)	3,17	114	42	44	28
Mid-term assessment					
credit/exam (specify the type)	1	36			36
TOTAL LABOR INTENSITY	9	324	108	108	108

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

№	Competence code	Section name of the discipline	
1.	UC-1 (IUC-1.4), GPC-2 (IGPC-2.1, IGPC-2.2, IGPC-2.3), PC-3 (IPC-3.1, IPC-3.2, IPC-3.3)	General recipe prescription writing	
2.	UC-1 (IUC-1.4), GPC-2 (IGPC-2.1, IGPC-2.2, IGPC-2.3), PC-3 (IPC-3.1, IPC-3.2, IPC-3.3)	General Pharmacology	
3.	UC-1 (IUC-1.4), GPC-2 (IGPC-2.1, IGPC-2.2, IGPC-2.3), PC-3 (IPC-3.1, IPC-3.2, IPC-3.3)	Drugs regulating the functions of the peripheral nervous system	
4.	UC-1 (IUC-1.4), GPC-2 (IGPC-2.1, IGPC-2.2, IGPC-2.3), PC-3 (IPC-3.1, IPC-3.2, IPC-3.3)	Drugs regulating the functions of the central nervous system	
5.	UC-1 (IUC-1.4), GPC-2 (IGPC-2.1, IGPC-2.2, IGPC-2.3), PC-3 (IPC-3.1, IPC-3.2, IPC-3.3)	Medicines regulating the functions of executive bodies and systems	

6.	UC-1 (IUC-1.4), GPC-2 (IGPC-2.1, IGPC-2.2, IGPC-2.3), PC-3 (IPC-3.1, IPC-3.2, IPC-3.3)	Medicines regulating metabolic processes
7.	UC-1 (IUC-1.4), GPC-2 (IGPC-2.1, IGPC-2.2, IGPC-2.3), PC-3 (IPC-3.1, IPC-3.2, IPC-3.3)	Drugs that inhibit inflammation and affect immune processes
8.	UC-1 (IUC-1.4), GPC-2 (IGPC-2.1, IGPC-2.2, IGPC-2.3), PC-3 (IPC-3.1, IPC-3.2, IPC-3.3)	Antimicrobial and antiparasitic agents