

Summary of the working program of the academic discipline

«Pharmacology»

General Educational Program of higher education 31.05.01 General medicine

Department: General and clinical pharmacology

1. The purpose of mastering the discipline *participation in the formation of relevant competencies:* UC-1 (IUC-1.2, IUC-1.3), GPC-7 (IGPC-7.1), PC-4 (IPC-4.1, IPC-4.2), PC-8 (IPC-8.1)

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

#	Code of competence	Content of the competence (or part of it)	Code and name of the indicator of achievement of competence	As a result of studying the discipline students must::		
				know	be Able to	posess
1	UC-1	Able to carry out a critical analysis of problem situations on the basis of a systematic approach to develop a strategy of action	IUC 1.2. Knows how to acquire new knowledge on the basis of analysis, synthesis, etc.; to collect data on complex scientific issues related to the professional field; to search for information and solutions on the basis of action, experimentation and experience IUC 1.3 Has practical experience in the study of problems of professional activities with the use of analysis, synthesis and other methods of intellectual activity;	<ul style="list-style-type: none"> • General laws of the pharmacokinetics and pharmacodynamics of drugs (PK AND PD); • PK AND PD belonging to certain pharmacological group, pharmacodynamics and pharmacokinetics of drugs, indications, side effects, contraindications 	<ul style="list-style-type: none"> • to define groups of drugs for the treatment of a certain disease; • to analyze the effect of drugs on the totality of their pharmacological properties and the ability to use drugs for therapeutic treatment of the adult population; • to predict and evaluate adverse drug reaction 	<ul style="list-style-type: none"> • skills prescription of a drug for the treatment of various diseases and pathological processes in the adult population

			developing action strategies for solving professional problems			
2	GPC-7	Able to prescribe treatment and monitor its effectiveness and safety	IGPC 7.1. Knows methods of medical treatment, groups of drugs used for medical care in the treatment of most common diseases and their mechanism of action, medical indications and contraindications to the appointment; compatibility, possible complications, side effects, adverse reactions, including serious and unexpected; features provide medical care in case of emergency forms	<ul style="list-style-type: none"> • General principles of pharmacokinetics and pharmacodynamics of drugs (PK AND PD); • PK AND PD belonging to certain pharmacological group, pharmacodynamics and pharmacokinetics of drugs, indications, side effects, contraindications; • order prescription of a drug and registration of prescription forms 	<ul style="list-style-type: none"> • to define groups of drugs for the treatment of a certain disease; • to analyze the effect of drugs on the totality of their pharmacological properties and the ability to use drugs for therapeutic treatment of the adult population; • to predict and evaluate adverse drug reactions; • the use of prescription drugs 	<ul style="list-style-type: none"> • skills prescription of a drug for the treatment of various diseases and pathological processes in the adult population
3	PC-4	<u>Able to apply drugs and medical devices in the provision of medical assistance in emergency and emergency forms</u>	IPC 4.1. Knows: modern methods of use of medicines for diseases and conditions in accordance with the applicable procedures of medical care, clinical recommendations (treatment protocols) on the provision of medical care to meet the standards of medical care in	<ul style="list-style-type: none"> • General principles of pharmacokinetics and pharmacodynamics of drugs (PK AND PD); • PK AND PD belonging to certain pharmacological group, pharmacodynamics and pharmacokinetics of drugs, indications, side effects, contraindications; 	<ul style="list-style-type: none"> • to define groups of drugs for the treatment of certain diseases; • to analyze the effect of drugs on the totality of their pharmacological properties and the ability to use drugs for therapeutic treatment of the adult population; • to predict and 	<ul style="list-style-type: none"> • skills prescription of a drug for the treatment of various diseases and pathological processes in the adult population

		<p>the provision of medical assistance in emergency and emergency forms;</p> <p>the mechanism of action of drugs, medical indications and contraindications for their use; complications caused by their use of</p> <p>PCI 4.2. Able to prescribe drugs with consideration of diagnosis, age and clinical picture of the disease in accordance with the applicable procedures of medical care, clinical recommendations (treatment protocols) on the provision of medical assistance in emergency and emergency forms</p>	<ul style="list-style-type: none"> • the order of appointment of drugs and registration of prescription forms 	<p>evaluate adverse drug reactions;</p> <ul style="list-style-type: none"> • the use of prescription drugs 		
4	PC-8	<p><u>Able</u> to develop a plan of treatment for the disease or condition and <u>to prescribe medications</u>, medical products, health food and non-pharmacological treatment according to diagnosis, age and clinical presentation <u>in accordance</u></p>	<p>IPC-8.1. Knows: modern methods of using medicines for diseases and conditions in the patient in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into</p>	<ul style="list-style-type: none"> • general laws of pharmacokinetics and pharmacodynamics of medicinal products(drugs); • belonging of drugs to certain pharmacological groups, pharmacodynamics and pharmacokinetics of drugs, indications for use, side effects, contraindications to use; • procedure for 	<ul style="list-style-type: none"> • of medical devices determine groups of drugs for the treatment of a particular disease; • analyze the effect of drugs on the totality of their pharmacological properties and the possibility of using drugs for therapeutic treatment of the 	<ul style="list-style-type: none"> • and prescribe drugs in the treatment of various diseases and pathological processes in the adult population

	<p>with the applicable procedures of medical care, clinical recommendations (treatment protocols) on the provision of medical assistance, taking into account standards to assess the effectiveness and safety of the use of medicines, medical devices, therapeutic nutrition and other methods of treatment</p>	<p>account the standards medical care; mechanism of action of medicinal products, medical indications and contraindications to their use; complications caused by their use</p>	<p>prescribing drugs and registration</p>	<p>adult population;</p> <ul style="list-style-type: none"> • predict and evaluate undesirable drug reactions; • write prescriptions for drugs 	
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4. Volume of the academic discipline and types of academic work

Total labor intensity of the discipline is 7 CU (252 AH)

Type of educational work	Labor intensity		Labor intensity (AH) in semester	
	volume in credit units (CU)	volume in academic hours (AH)	5	6
Classroom work, including	3.67	132	66	66
Lectures (L)	0.78	28	14	14
Laboratory practicum (LP)*	does not provide			
Practicals (P)	2,89	104	52	52
Seminars (S)	does not provide			
Student's individual work (SIW)	2,33	84	42	42
Mid-term assessment				
exam	1	36	-	36
TOTAL LABOR INTENSITY	7	252	108	144

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

N ^o / n	Competence code	Section name of the discipline
1.	UC-1 (IUC-1.2, IUC-1.3), GPC-7 (IGPC-7.1), PC-4 (IPC-4.1, IPC-4.2),	General recipe prescriptions

	PC-8 (IPC-8.1)	
2.	UC-1 (IUC-1.2, IUC-1.3), GPC-7 (IGPC-7.1), PC-4 (IPC-4.1. IPC-4.2), PC-8 (PCI-8.1)	General Pharmacology
3.	UC-1 (IUC-1.2, IUC-1.3), GPC-7 (IGPC-7.1), PC-4 (IPC-4.1. IPC-4.2), PC-8 (IPC-8.1)	Drugs regulating the functions of the peripheral nervous system
4.	UC-1 (IUC-1.2, IUC-1.3), GPC-7 (IGPC-7.1), PC-4 (IPC-4.1. IPC-4.2), PC-8 (IPC-8.1)	Drugs regulating the functions of the central nervous system
5.	UC-1 (IUC-1.2, IUC-1.3), GPC-7 (IGPC-7.1), PC-4 (IPC-4.1. IPC-4.2), PC-8 (IPC-8.1)	Medicines regulating the functions of executive bodies and systems
6.	UC-1 (IUC-1.2, IUC-1.3), GPC-7 (IGPC-7.1), PC-4 (IPC-4.1. IPC-4.2), PC-8 (IPC-8.1)	Medicines regulating metabolic processes
7.	UC-1 (IUC-1.2, IUC-1.3), GPC-7 (IGPC-7.1), PC-4 (IPC-4.1. IPC-4.2), PK-8 (IPC-8.1)	Drugs that inhibit inflammation and affect immune processes
8.	UC-1 (IUC-1.2, IUC-1.3), GPC-7 (IGPC-7.1), PC-4 (IPC-4.1. IPC-4.2), PC-8 (IPC-8.1)	Antimicrobial and antiparasitic agents
9	UC-1 (IUC-1.2, IUC-1.3), GPC-7 (IGPC-7.1), PC-4 (IPC-4.1. IPC-4.2), PC-8 (IPC-8.1)	Antitumor drugs