Summaryof the working program of the academic discipline

«HISTOLOGY, EMBRYOLOGY, CYTOLOGY»

(name of the academic discipline)

General Educational Program of higher education (<u>specialist's degree programs</u>) 31.05.01 GENERAL MEDICINE Department: HISTOLOGY WITH CYTOLOGY AND EMBRYOLOGY

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

- Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy (UC-1)

- Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems (GPC-5);

- Able to understand the principles of modern information technologies and use them to solve the tasks of professional activity (GPC-10).

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

2.1. The discipline **"Histology, embryology, cytology"** refers to the core part of Block 1 of GEP HE (B1.C.16).

The discipline is taught in 2-3 semester/1-2 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

No	Compet	The content of the	Code and name of the	As a result of mastering the discipline, the students should:			
JNO	code	code competence (or its part)	metric	know	be able to	possess	
1.	UC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	IC _{UC-1.1} Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IC _{UC-1.2} Able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience IC _{UC-1.3} Has practical experience: researching the problem of	Methods of critical analysis and evaluation of modern scientific achievements in the field of histological research; basic principles of critical analysis	To gain new knowledge based on analysis, synthesis, etc.; to collect data on complex scientific problems related to the professional field; to search for information and solutions based on actions, experiment and	Practical experience : research of the problem of profession al activity with the use of analysis, synthesis and other methods of intellectual activity; developme nt of an action strategy for solving profession al	

			professional activity		experience	problems
			using analysis.			F
			synthesis and other			
			methods of intellectual			
			activity: developing an			
			action strategy to solve			
			professional problems			
2	GPC-5	Able to assess	IC1 CPC 5.1 Knows	Basic laws of	To work	The
2.	010.5	morphofuncti	anatomy histology	development	with a light	technique
		onal	embryology	structure and	microscope.	of light
		physiological	topographic anatomy	vital activity	to give a	microscon
		conditions	physiology	of the human	histophysical	nicroscop v of
		and	physiology,	body based on	agical	y 01 histologica
		allu	and physical anatomy	the structurel	ogical	
			and physiology of	the structural	assessment	
		processes in	numan organs and	and functional	of the state	preparation
		the	systems	organization	of various	s; the skills
		numan body	IC2 GPC 5.2 Able to:	of cells,	cellular,	
		to solve	evaluate the basic	tissues and	tissue and	describing
		professional	morphological and	organs;	organ	histologica
		problems	functional data,	methods of	structures in	1
			physiological	histological	humans; to	preparation
			conditions and	examination;	use	s and
			pathological processes	systemic	educational	electronic
			in the human body	properties in	and	microphot
			IC2 _{GPC 5.3} Has	the	scientific	ographs.
			practical experience in:	relationship	literature,	
			assessment of basic	of structural	the Internet	
			morphological and	elements of	for	
			functional data,	the human	professional	
			physiological	body;	activities.	
			conditions and	knowledge of		
			pathological processes	basic natural		
			in the human body	science and,		
			when solving	in particular,		
			professional problems	medical		
				terminology.		
3.	GPC-	Able to	IC1 GPC10.1 Knows: the	Possibilities	To apply	The skills
	10	understand	capabilities of	of reference	modern	of using
		the principles	reference information	information	information	modern
		of modern	systems and	systems and	and	informatio
		information	professional databases;	professional	communicat	n and
		technologies	methods of	databases;	ion	bibliograp
		and use them	information retrieval,	methods of	technologies	hic
		to solve the	information and	information	in the study	resources,
		tasks of	communication	retrieval,	of the	the use of
		professional	technologies; modern	information	subject; to	special
		activity	medical and biological	and	carry out an	software
			terminology;	communicatio	effective	and
			fundamentals of	n	search for	automated
			information security in	technologies;	information	informatio
			professional activities	basic natural	necessary	n systems
			IC2 $_{\text{GPC10.2}}$ Able to:	science and,	for the study	to solve

	apply modern	in particular,	of histology	educationa
	information and	medical	using	l tasks,
	communication	terminology.	reference	taking into
	technologies to solve	0.	systems and	account
	the tasks of		professional	the basic
	professional activity;		databases; to	requiremen
	carry out an effective		use modern	ts of
	search for information		medical and	informatio
	necessary to solve the		biological	n security
	tasks of professional		terminology;	2
	activity using reference		to master	
	systems and		and apply	
	professional databases;		modern	
	use modern medical		information	
	and biological		and	
	terminology; master		communicat	
	and apply modern		ion	
	information and		technologies	
	communication		in	
	technologies in		educational	
	professional		activities,	
	IC3 GPC10.3 Has		taking into	
	practical experience in		account the	
	the use of modern		basic	
	information and		requirement	
	bibliographic		s of	
	resources, the use of		information	
	special software and		security	
	automated information			
	systems to solve			
	standard tasks of			
	professional activity,			
	taking into account the			
	basic requirements of			
	information security			

4. Volume of the academic discipline and types of academic work Total labor intensity of the discipline is **6** CU (**216** AH)

	Labor i	ntensity	Labor intensity (AH) in		sity (AH) in
Type of educational work	volume in credit units (CU)	volume in academic hours (AH)	semesters		
			2	3	
Classroom work, including	3,4	108	54	54	
Lectures (L)	1,0	26	14	12	
Laboratory practicum (LP)*					
Practicals (P)	2,4	82	40	42	
Seminars (S)					
Student's individual work (SIW)	1,6	72	36	36	
Mid-term assessment					
credit/exam (specify the type)	1,0	36		36	

TOTAL LABOR INTENSITY	6,0	216	90	126		
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N⁰	Competenc e code	Section name of the discipline	The content of the section in teaching units
	UC 1		Methods and techniques of histological studies.
1	GPC-5	Cytology	Cells. Intercellular substance.
1.	GPC 10		The structure of the cytoplasm.
	010-10		The nucleus. Cell reproduction
2.	UC-1 GPC-5 GPC-10 Human Embryology		Basis of human embryology.
1-2	UC-1 GPC-5 GPC-10 Cytology and embryology		Current monitoring
		General histology	Epithelial tissue
	UC-1		Connective tissues
3.	GPC-5		Muscle tissue
	GPC-10		Nervous tissue
			Current monitoring
			Cardiovascular system
			Hematopoietic and lymphatic organs
	UC-1 GPC-5 GPC-10	Special histology	Digestive system
			Current monitoring
4			Endocrine system
т.			Urinary system
			Male reproductive system
			Female reproductive system
			Fetal membranes and provisional organs
			Current monitoring

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