Summary of the working program of the academic discipline

«Pediatric surgery» (name of the academic discipline)

General Educational Program of higher education (specialist's degree programs)

31.05.01 GENERAL MEDICINE

code, name of the specialty

Department: Pediatric surgery

1. The purpose of mastering the discipline

The purpose of mastering the discipline is to participate in the formation of graduates of the following universal (UC), general professional competencies (GPC) and professional competencies (PC):

UC- 1,

GPC-1, 4, 6, 7,

PC-1, 6, 7.

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

The discipline Pediatric Surgery 9 refers to the core part (or the part formed by the participants of educational relations) of Block 1 of GEP HE (Academic discipline index).

The discipline is taught in __9_ semester/__5_ 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

№	Comments	The content of	Code and name of the		mastering the c students should:	-
110	Compete nce code	the competence (or its part)	competence acquisition	know	be able to	possess
		(* * * * * * * * * * * * * * * * * * *	metric			P
1.	UC-1	UC-1. Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis 1.2 Able to: gain new knowledge based on analysis,	methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis	gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information	researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve

			synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience 1.3 Has practical experience: researching the problem of professional		and solutions based on action, experiment and experience	professional problems
			activity using analysis, synthesis and other methods of intellectual			
			activity; developing an action strategy to solve professional			
			problems			
2.	GPC 1	GPC-1. Able to implement moral and legal norms, ethical and deontological principles in professional activities	1.1 Knows: basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice 1.2 Able to: apply ethical norms and principles of behavior of a healthcare worker in the performance of	basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice	apply ethical norms and principles of behavior of a healthcare worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving problems of professional activity; apply the rules and	solving standard problems of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representativ es), knowledge of the legal aspects of

			41:			
			their		norms of	medical
			professional		interaction	practice
			duties;		between a	
			knowledge of		doctor and	
			modern		colleagues	
			legislation in		and patients	
			the field of		(their legal	
			healthcare in		representativ	
			solving		es)	
			problems of		,	
			professional			
			activity; apply			
			the rules and			
			norms of			
			interaction			
			between a doctor and			
			colleagues and			
			patients (their			
			legal			
			representatives)			
			1.3 Has			
			practical			
			experience in:			
			solving			
			standard			
			problems of			
			professional			
			activity based			
			on ethical			
			norms and			
			deontological			
			principles when			
			interacting with			
			colleagues and			
			•			
			patients (their			
			legal			
			representatives)			
			, knowledge of			
			the legal			
			aspects of			
			medical			
			practice			
3.	GPC 4	GPC-4. Able to	4.1 Knows the	the	collect	collecting
		apply medical	methodology of	methodology	complaints,	complaints,
		products,	collecting	of collecting	anamnesis of	anamnesis of
		provided by the	anamnesis of	anamnesis of	life and	life and
		order of	life and	life and	disease of	disease of
		healthcare	diseases,	diseases,	patients	patients
		delivery, as well	complaints of	complaints of	(their legal	(their legal
1		as examine	1 31	1	1 2 - 108.11	1.08.11

patients for the patients (their patients representativ representativ purpose of es), identify legal legal (their es), determining the representatives) representativ risk factors identifying diagnosis examination es): and causes of risk factors procedure; and examination and causes of diseases; physical procedure; disease apply examination; and physical methods development; clinical aspect. examination: examination examination clinical and physical and physical methods diagnosis of the survey survey aspect, of most common methods of patients; patients; diagnosis diseases: diagnosis of interpret the of methods of the of the most results most laboratory and common examination common instrumental diseases; diseases; and physical investigations methods of examination identification of to assess the laboratory patients; of risk state of health. diagnose the and factors for medical instrumental major most oncological indications for investigation common conducting diseases: s to assess pathology research, rules the state of among formulation for interpreting health. patients; of a results; identify risk their medical preliminary international indications factors diagnosis, for statistical for cancer; drawing up a classification of conducting for formulate plan diseases and research, preliminary instrumental, health-related rules for diagnosis, to laboratory, problems interpreting make a plan additional (ICD); their results; investigation for conditions international conducting requiring statistical laboratory, consultations classification instrumental of specialist emergency medical care: of diseases and doctors: procedure healthfor and additional referral of the use of related investigation patients for medical devices problems s of patients instrumental, accordance (ICD); in laboratory, with the current conditions accordance additional procedures for requiring with the investigation emergency providing procedures medical care. medical care: for providing consultations clinical procedure for medical care, of specialist recommendatio the use of clinical doctors in medical accordance (treatment recommendat protocols) devices in ions taking with the the medical accordance into account current the standards care delivery with the procedures for providing taking into of medical current account the procedures care; to refer medical care, standards for providing patients clinical of to

medical care to: 4.2 Able collect complaints, anamnesis of life and disease of patients (their legal representatives) , identify risk factors and of causes diseases; apply methods of examination and physical survey of patients; interpret the results ofexamination physical and examination of patients; diagnose the most common pathology among patients; identify risk factors for cancer: formulate a preliminary diagnosis, to make a plan for conducting laboratory, instrumental and additional investigations of patients in accordance with the procedures for providing medical care. clinical recommendatio ns taking into account the standards of medical care; to

medical care, clinical recommendat ions (treatment protocols) on the medical care delivery taking into account the standards of medical care

laboratory, instrumental and additional investigation accordance with the current procedures for providing medical care, clinical recommendat ions, taking into account the standards of medical refer care: patients for consultations medical specialists in accordance with the procedures of medical care, clinical recommendat ions taking into account the standards of medical care: to interpret and the analyze results of consultations medical by specialists of patients; interpret and analyze the results basic (clinical) and additional (laboratory, instrumental) examination methods; carry out

recommendat ions taking into account the standards of medical care; interpretation of data from additional (laboratory and instrumental) examinations of patients; making preliminary diagnosis in accordance with the international statistical classification of diseases and problems related health (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 urgent medical care: the use medical devices in accordance with current medical procedures,

refer patients to laboratory, instrumental and additional investigations accordance with the current procedures for providing medical care, clinical recommendatio ns, taking into account the standards of medical care: refer patients for consultations to medical specialists in accordance with the procedures of medical care. clinical recommendatio ns taking into account the standards of medical care; to interpret and analyze the results of consultations medical by specialists of patients; to interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; carry out differential diagnosis of diseases of patients; identify clinical

differential diagnosis of diseases of patients; identify clinical signs sudden acute diseases. conditions, exacerbation s of chronic diseases without obvious signs of lifethreatening, requiring medical care in an urgent form: use medical devices in accordance with current medical procedures, clinical recommendat ions (treatment protocols) on the provision of medical care. assistance taking into account the standards of medical care

clinical recommendat ions (treatment protocols) on the issues of medical care delivery, assistance taking into account the standards of medical care

signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs lifeof threatening, requiring medical care in an urgent form; use medical devices in accordance with current medical procedures, clinical recommendatio (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care 4.3 Has practical experience in: collecting complaints, anamnesis of life and disease of patients (their legal representatives) identifying risk factors and causes disease development; examination physical and survey patients; diagnosis of the most common diseases;

identification of risk factors for major oncological diseases; formulation of preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional investigations, consultations of specialist doctors; referral of patients for instrumental, laboratory, additional investigations, consultations of specialist doctors in accordance with the current procedures for providing medical care, clinical recommendatio ns taking into account the standards of medical care; 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

		problems related to health (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 urgent medical care; the use of medical devices in accordance with current medical procedures, clinical recommendatio ns (treatment protocols) on the issues of medical care delivery, assistance taking into account the standards of			
		standards of medical care			
4. GPC 6	GPC-6. Able to: organize patient care, provide primary health care, ensure the organization of work and professional decision-making in case of medical emergency on the prehospital	6.1 Knows: methods of collecting complaints and anamnesis of patients (their legal representatives) ; methods of physical examination of patients (examination,	methods of collecting complaints and anamnesis of patients (their legal representatives); methods of physical examination of patients (examination	conditions that require healthcare	assessing the condition requiring healthcare delivery in an emergency form, including in

stage, in the conditions of emergency situations, epidemics and in centers of mass destruction

palpation, percussion, auscultation); principles and methods of medical care delivery to patients in urgent conditions, in emergency situations, epidemics and in centers of mass destruction in accordance with the procedures for providing medical care. clinical recommendatio ns taking into account the standards of medical care: clinical signs of major emergency conditions; principles of medical evacuation in emergency situations, epidemics and in centers of mass destruction; principles of work in centers of mass destruction; principles of organization of patient care. first aid treatment 6.2 Able to: recognize

conditions

palpation, percussion, auscultation); principles and methods of medical care delivery to patients in urgent conditions, in emergency situations, epidemics and in of centers mass destruction in accordance with the procedures for providing medical care, clinical recommendat ions taking into account the standards of medical care; clinical signs of major emergency conditions; principles of medical evacuation in emergency situations. epidemics and in centers of mass destruction; principles of work in of centers mass destruction; principles of organization of patient care, first aid

and in the centers of mass destruction, requiring medical assistance in an emergency form; organize the work of medical personnel in emergency situations, epidemics and in of centers mass destruction; provide emergency medical care to patients in conditions that pose a threat to the life of patients, including (blood circulation and (or) respiration); use medicines and medical products when providing medical care in emergency conditions; perform basic cardiopulmo nary resuscitation; use personal protective equipment;

emergency situations, epidemics and in the ofcenters mass destruction; definition of lifethreatening conditions, including the state of clinical death of (arrest vital important functions ofthe human body (blood circulation and (or) breathing) requiring medical care in the emergency form; medical care delivery in emergency form to patients conditions, constituting lifethreatening situations including clinical death

that require healthcare	treatment	organize	(arrest of
meanmeare		patient care,	vital
delivery in an		provide	functions
emergency		primary	of human
form,		health care	body
including in			(blood
the			circulation
conditions of			and (or)
emergencies,			\ /
epidemics			respiration)
and in the			the use of
centers of			medicines
********			and medical
mass			products in
destruction,			the provision
requiring medical			of medical
			care in case of emergency
assistance in			conditions
an			and
emergency			epidemics;
form;			use of
organize the			personal
work of			protective
medical			equipment; organization
personnel in			of patient
emergency			care, first aid
situations,			measures
epidemics			
and in			
centers of			
mass			
destruction;			
provide			
emergency			
medical care			
to patients in			
conditions			
that pose a			
threat to the			
life of			
patients,			
including			
(blood			
circulation			
and (or)			
respiration);			

use medicines and medical products when providing medical care in emergency conditions; perform basic cardiopulmo nary resuscitation; use personal protective equipment; organize patient care, provide primary health care 6.3 Has practical experience in: assessing the condition requiring healthcare delivery in an emergency form, including in emergency situations, epidemics and in the centers of mass destruction; definition of lifethreatening conditions,

including the state of clinical death (arrest of vital important functions of the human body (blood circulation and (or) breathing) requiring medical care in the emergency form; medical care delivery in emergency form to patients in conditions, constituting lifethreatening situations including clinical death (arrest of vital functions of human body (blood circulation and (or) respiration); the use of medicines and medical products in the provision of medical care in case of emergency

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			conditions			
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			epidemics;			
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			personal			
			protective			
			equipment;			
			organization			
			_			
			of patient			
			care, first aid			
L_	~~~ ~	GDG = 111	measures			
5	. GPC 7	GPC-7. Able to	7.1 Knows:	methods of	develop a	developing a
		prescribe	methods of	drug and	treatment	treatment
		treatment and	drug and non-	non-drug	plan for	plan for
		monitor its	drug treatment,	treatment,	patients with	patients with
		effectiveness and	medical indications for	medical indications	the most common	the most common
		safety	the use of	for the use of		diseases in
		Saicty	medical	medical	accordance	accordance
			devices for the	devices for	with the	with the
			most common	the most	procedures	current
			diseases;	common	for providing	procedures
			groups of drugs	diseases;	medical care,	for the
			used to provide	groups of	clinical	provision of
			medical care in	drugs used to	guidelines	medical care,
			the treatment of	provide	taking into	clinical
			the most	medical care	account the	guidelines,
			common	in the	standards of	taking into
			diseases; the	treatment of	· · · · · · · · · · · · · · · · · · ·	account the
			mechanism of	the most	-	standards of
			their action, medical	common diseases; the	eliminate	medical care;
			indications and	mechanism	complication s, side	provision of emergency
			contraindicatio	of their	effects,	and urgent
			ns to the	action,	adverse	medical care
			prescription;	medical	reactions,	to patients
			compatibility,	indications	including	with the most
			possible	and	unforeseen	common
			complications,	contraindicat	ones,	diseases in
			side effects,	ions to the	resulting	accordance
			adverse	prescription;	from	with the
			reactions,	compatibility	diagnostic or	current
			including	, possible	therapeutic	procedures
			serious and	complication	manipulation	for
			unforeseen;	s, side	s, the use of	providing
			features of medical care in	effects, adverse	drugs and	medical care, clinical
			emergency	reactions,	(or) medical devices, non-	guidelines,
			forms	including	drug	taking into
			7.2 Able to:	serious and	treatment	account the
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develop treatment plan for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines taking into account the standards of medical care; prevent or eliminate complications, side effects. adverse reactions. including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, nondrug treatment 7.3 Has practical experience in: developing treatment plan for patients with the most common diseases accordance with the current procedures for the provision of medical care. clinical guidelines, taking into account the

unforeseen; features of medical care in emergency forms

standards of medical care; selection and prescription of medicines, medical devices with the most common diseases for the treatment of the most common diseases of children and adults in accordance with the current procedures for providing medical care, clinical recommendat ions, taking into account the standards of medical care; evaluation of the effectiveness and safetyof the use of drugs, medical devices and non-drug treatment of patients with the most common diseases: selection and prescription of non-drug treatment for patients with the most common diseases in accordance

standards of medical care; provision of emergency and urgent medical care to patients with the most common diseases in accordance with the current procedures for providing medical care, clinical guidelines, taking into account the standards of medical care: selection and prescription of medicines. medical devices with the most common diseases for the treatment of the most common diseases of children and adults in accordance with the current procedures for providing medical care, clinical recommendatio ns, taking into account the standards of medical care; evaluation of the effectiveness and safety of the use of drugs, medical devices and non-drug

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exacerbation of chronic diseases without			
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OUVIOUS SIGNS			
	1	OUTIONS SIGNS	

		of a threat to the patient's life in an emergency form; the use of medicines and medical devices in the provision of medical care in an emergency form			
6. PC 6	PC-6 Able to send a patient to laboratory, instrumenta l examination, to a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendat ions (treatment protocols) on providing medical care taking into account the standards of medical care, and also refer	6.1 Knows: general issues of organizing medical care for the population, methods of laboratory and instrumental examinations to assess the state of health, medical indications for conducting examinations , rules for interpreting their results; procedures for the provision of medical care, clinical recommendat ions (treatment protocols) on the provision of medical	general issues of organizing medical care for the population, methods of laboratory and instrumental examinations to assess the state of health, medical indications for conducting examinations , rules for interpreting their results; procedures for the provision of medical care, clinical recommendat ions (treatment protocols) on the provision of medical care, standards of medical care	justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care	justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care

7. PC 7	the patient for providing specialized medical care in an inpatient setting or in a day hospital if there are medical indications in accordance with the current procedures for the medical care delivery, clinical recommendat ions (treatment protocols) on the medical care delivery taking into account the standards of medical care	care, standards of medical care 6.2 Able to: justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care	etiology,	analyze the	analyze the
7. FC /	PC-7 Able to: make a differential diagnosis with other diseases/cond itions including	Knows: etiology, pathogenesis and pathomorpho logy, clinical aspect,	pathogenesis and pathomorpho logy, clinical aspect, differential diagnosis, clinical	results of the patient's examination, if necessary, justify and plan the scope of additional	results of the patient's examination, if necessary, justify and plan the scope of additional

emergencies, establish diagnosis taking into account the current international statistical classification of diseases and related health problems (ICD)

differential diagnosis, clinical features, complication s and outcomes of diseases of internal organs; methods of laboratory and instrumental examinations for assessing the state of health, medical indications for conducting examinations , rules for interpreting their results: **ICD** 7.2 Able to: analyze the results of the patient's examination, if necessary, justify and plan the scope of additional

examinations; interpret the

results of collecting information about the patient's disease;

features, complication s and outcomes of diseases of internal organs; methods of laboratory and instrumental examinations for assessing the state of health, medical indications for conducting examinations . rules for interpreting their results; ICD

examinations ; 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 consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases

examinations ; 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 consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases

1 1	1	1	ı İ	1
		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		
		consultations		
		of the patient		
		by medical		
		specialists; to		
		carry out		
		differential		
		diagnostics		
		of diseases of		
		internal		
		organs from		
		other		
		diseases		
	1			

4. Volume of the academic discipline and types of academic work Total labor intensity of the discipline is $_3$ ___ CU ($_108$ __AH)

Type of educational work	Labor i	ntensity	Labor intensity (AH) in semesters			
	volume in					
	credit units (CU)	academic hours (AH)	9			
Classroom work, including	g1,8	66	66			
Lectures (L)	0,4	14	14			
Laboratory practicum (LP)*						
Practicals (P)	1,4	52	52			

Seminars (S)					
Student's individual work (SIW)	1,2	42	42		
Mid-term assessment					
credit/exam (specify the type)					
TOTAL LABOR INTENSITY	3	108	108		

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

5. Sections of the academic discipline and competencies that are formed		
№	Competence code	Section name of the discipline
1.	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Abdominal surgery
2.	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Intestinal obstruction
3.	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Purulent-inflammatory diseases
4	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Traumatology of childhood
5	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Uroandrology and herniology of childhood
6	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Oncology