

Summary of the working program of the academic discipline

«NORMAL PHYSIOLOGY»

General Educational Program of higher education (specialist's degree programs)
Specialty 31.05.01 «General Medicine»

Department of normal physiology named after N.Yu. Belenkov

1. The purpose of mastering the discipline: participation in the formation of competencies UC -1, GPC -5.

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) competencies:

№	Competence code	The content of the competence (or part of it)	Code and name of the indicator of the competence acquisition metric	As a result of studying the discipline, students should:		
				Know	Be Able to	Possess
1.	UC -1	Able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions	IUC 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IUC1.2 Can: acquire 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 actions, experiment and experience.	Principles of analysis and evaluation of physiological processes occurring in human organs and systems; Principles of analysis and evaluation of functional systems of the human body and their self-regulation under the influence of factors of internal and external environment; Principles of analysis and evaluation of the results of functional and laboratory diagnostic methods (ECG, pulse and blood pressure research methods, spirometry, methods of research of sensory systems, higher nervous activity thermometry, hematological studies); Principles of analysis and evaluation of experimental results.	Analyze the functional state of various cellular, tissue and organ structures; Analyze the functional systems of the human body and their self-regulation under the influence of factors of the internal and external environment; Analyze the results of laboratory and functional diagnostic methods; Analyze the results of practical work, draw conclusions corresponding to the set goal and the results of experiments.	Independent measurement skills blood pressure and pulse palpation; Skills of independent use of physiological functions of the conceptual apparatus.

2.	GPC -5	Able to assess morphofunctional, physiological states and pathological processes in the human body to solve professional tasks	I GPC -5.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems I GPC 5.2 Able to: evaluate the basic morphofunctional data, physiological states and pathological processes in the human body.	Physiological terms; General physiological patterns underlying the processes occurring in the human body; Physiological processes occurring in human organs and systems and their dynamics in different age periods; Functional systems of the human body, their regulation and self-regulation under the influence of factors of internal and external environment; Methods of functional and laboratory diagnostics (ECG, methods of pulse and blood pressure research, spirometry, spirometry, methods of research of sensory systems, metabolism, higher nervous activity hematological studies); Methods of practical work.	Apply physiological terms in professional activity; Evaluate the physiological states of various cellular, tissue and organ structures; Evaluate the functional systems of the human body and their self-regulation under the influence of internal and external environmental factors; Evaluate the results of laboratory and functional diagnostic methods; Perform practical work under the guidance of a teacher; Evaluate the results of practical work, draw conclusions corresponding to the set goal and the results of experiments.	Self-measurement skills blood pressure and pulse palpation; Skills of independent use of physiological conceptual apparatus.
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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 by semester (AH)	
	volume in credit units (CU)	volume in academic hours (AH)	3	4
	Classroom work, including	3,7	132	66
Lectures (L)	0,84	28	14	14
Laboratory practicum (LP)*				
Practicals (P)	2,86	104	52	52
Seminars (S)				
Student's individual work (SIW)	2,3	84	42	42
Student's research work (SRW)				
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

№	Competence code	Section name of the discipline
1.	UC -1, GPC -5	Introduction to the subject. Basic concepts of physiology. Regulation of physiological functions.
2.	UC -1, GPC -5	Physiology of excitable systems.
3.	UC -1, GPC -5	Physiology of the central nervous system (CNS).
4.	UC -1, GPC -5	Physiology of the endocrine system
5.	UC -1, GPC -5	Blood physiology
6.	UC -1, GPC -5	Physiology of respiration .
7.	UC -1, GPC -5	Metabolic bases of physiological functions. Thermoregulation
8.	UC -1, GPC -5	Physiology of excretion.
9.	UC -1, GPC -5	Physiology of digestion.
10.	UC -1, GPC -5	Physiology of blood circulation .
11.	UC -1, GPC -5	Physiology of sensory systems .
12.	UC -1, GPC -5	Physiology of higher nervous activity
13.	UC -1, GPC -5	Physiology of functional states.