

Summary of the working program of the academic discipline

«NORMAL PHYSIOLOGY, PHYSIOLOGY OF THE MAXILLO-FACIAL REGION»

General Educational Program of higher education (specialist's degree programs)
Specialty Dentistry (31.05.03)

Department of normal physiology named after N.Yu. Belenkov

1. The purpose of mastering the discipline: participation in the formation of competencies of the UC -1, GPC - 9.

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:

No.	Competence code	The content of the competence (or its part)	Code and name 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 problematic situations based on a systematic approach, develop an action strategy	IUC 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IUC 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. IUC 1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional	Principles of analysis and evaluation of physiological processes occurring in human organs and systems; Principles of analysis and evaluation of the functional systems of the human body and their self-regulation under the influence of factors of the internal and external environment; Principles of analysis and evaluation of the results of functional and laboratory diagnostic methods (electrocardiography - ECG, methods for studying pulse and blood pressure, spirometry, spirometry, pneumography, coagulography, determination of the blood group according to the ABO system and the Rh factor, densometry, gnatodynamometry, electromyostasiography); Principles of analysis and	Analyze the functional state of various cellular structures, tissues and organs, substantiate their point of view on the basis of evidence-based medicine; Interpret the results of laboratory and functional diagnostic methods; Analyze the results of practical works, draw conclusions corresponding to the goal and the results of the experiments.	Skills of blood pressure measurement and pulse palpation; Medico-physiological conceptual apparatus.

			problems	evaluation of the results of experimental work. Analyze the results of experimental work, draw conclusions that correspond to the goal and the results of the experiments.		
2.	GPC-9	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems.	IGPC-9.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems IGPC-9.2 Is able to: assess the basic morphofunctional data, physiological conditions and pathological processes in the human body.	Physiological terms; General physiological properties of cells and tissues; General physiological patterns underlying the processes occurring in the human body; Physiological processes occurring in human organs and systems; Patterns of functioning of the maxillofacial region organs and their interaction with other body systems; Functional system of food bolus formation; Methods of functional and laboratory diagnostics (ECG, methods for studying pulse and blood pressure, spirometry, spirometry, pneumography, coagulography, determination of the blood group according to the ABO system and the Rh factor, gustometry, gnatodynamometry, electromyomasticaciography);	Analyze the functional state of various organs, including the maxillofacial region; Interpret the results of laboratory and functional diagnostic methods; Perform practical work under the guidance of a teacher; Analyze the results of experimental work, draw conclusions that correspond to the goal and the results of the experiments.	Medico-physiological conceptual apparatus; Methods for measuring blood pressure and pulse palpation.

4. Volume of the academic discipline and types of academic work

Total labor intensity of the discipline is 4 CU (144 AH)

Type of educational work	Labor intensity		Labor intensity (AH) in semesters	
	volume in credit units (CU)	volume in academic hours (AH)	Semester 2	Semester 3
Classroom work, including	1,8	66	34	32
Lectures (L)	0,4	14	8	6
Laboratory practicum (LP)*				
Practicals (P)	1,4	52	26	26
Clinical practice (CP)				
Seminars (S)				
Student's individual work (SIW)	1,2	42	20	22
Mid-term assessment				

exam	1	36	-	36
TOTAL LABOR INTENSITY	4	144	54	90

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

№	Competence code	Section name of the discipline
1.	UC -1, GPC -9	Introduction to the subject. Basic concepts of physiology. Regulation of physiological functions.
2.	UC -1, GPC -9	Physiology of excitable systems.
3.	UC -1, GPC -9	Physiology of the central nervous system (CNS).
4.	UC -1, GPC -9	Physiology of sensory systems. Sensory function of the oral cavity.
5.	UC -1, GPC -9	Physiology of higher nervous activity
6.	UC -1, GPC -9	Physiology of the endocrine system
7.	UC -1, GPC -9	Physiology of blood.
8.	UC -1, GPC -9	Physiology of circulation.
9.	UC -1, GPC -9	Physiology of respiration. Respiratory and communicative functions of the oral cavity.
10.	UC -1, GPC -9	Physiology of digestion. Digestive function of the oral cavity
11.	UC -1, GPC -9	Physiology of excretion.
12.	UC -1, GPC -9	Metabolic bases of physiological functions. Physiology of thermoregulation.