THEMATIC PLAN OF INDEPENDENT WORK IN THE DISCIPLINE "NORMAL PHYSIOLOGY – PHYSIOLOGY OF THE MAXILLOFACIAL REGION" FOR STUDENTS OF THE EDUCATIONAL PROGRAM SPECIALIST IN THE SPECIALTY 31.05.03, FOR THE 2023-2024 ACADEMIC YEAR

№	Self-study topics	Hours (academic)
1	**General physiology**[1] **Central nervous system** Anatomical and physiological concepts of the nerve center. Properties of nerve centers. Adaptation to dental prostheses. **Higher nervous activity** The role of heredity and the external environment in the formation of the type of higher nervous activity of a person. Emotions: functions, types, theories, mechanisms of emotions **Sensory systems** Theories of pain. Conductors of pain and central mechanisms of dental pain. Physiological mechanisms and types of pain relief in dental practice **Endocrine system** Classification of hormones. Properties and features of the action of hormones. Pathways and mechanisms of action of hormones on target cells (membrane and intracellular). The role of the endocrine glands in the development and formation of the maxillofacial region[2]	13
2	**Private Physiology**[1] **Digestive system** Adaptive nature of salivation. Physiological methods for studying the functions of the salivary glands. Methods for studying the masticatory apparatus. Physiological chewing tests. Absorption in the oral cavity. **Respiratory system** The role of the cerebral cortex in the regulation of breathing. Breathing at low atmospheric pressure. Breathing at elevated atmospheric pressure **Blood system** Factors that increase and decrease the rate of blood clotting. Anticoagulation mechanisms (anticoagulation system). Protective role of the oral hemostasis system **Cardiovascular system** Vasomotor center. Nervous regulation of vascular tone. Features of blood circulation in the maxillofacial area and oral organs **Excretory system** The role of the kidneys in the regulation of mineral metabolism in dental tissues. Regulation of the urinary function of the kidneys (nervous and humoral)	20
	TOTAL	33

[1] - subject

[2] - essential content

INSTRUCTIONS FOR INDEPENDENT WORK

1 Independent work of students includes independent study of individual topics, provided for by the work program in the second and third semester. Spring semester includes 1topic, autumn semester 2 topics of independent work thematic plan.

2 Student reporting form - preparation and submission of an abstract. Each semester a student submits one abstract on one of the topics.
3 The abstract can be presented in the form of work done by hand, in the form of a document Word or presentation. The student must study the questions submitted on independent analysis, analyze the studied material and include it in the abstract only the basic, most significant information. Amount of work done by hand must be at least 10 pages, the volume of the Word document is at least 6 pages, the volume presentations of at least 30 slides.
4 The completed work is digitized, translated into pdf format, placed in section on the educational portal of Volgograd State Medical University, in the course Discipline «Physiology» (Ph) II-III semester, in section “Independent work”: for the spring semester “CPC1”, for the autumn semester “CPC2”.
The file with the completed work must be correctly named - “first and last name of student_group, course_CPC1 or 2"

Considered at the meeting of the department of normal physiology "25" 05 2023, protocol № 9a

Head of the Department С.В. Клаучек