


APPROVED
 Head of Physiology and
 Pathophysiology Department
 with course of Medical Biology
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**Calendar and Thematic plan
 PRACTICAL CLASSES OF PHYSIOLOGY
 for students of SSU Medical Institute
 in speciality 8.222 - "MEDICINE"
 (group 208)
 for the autumn semester of the 2023-2024 academic years**

№	Themes of practical classes	Hours	Data
46.	Physicochemical properties of blood.	2	04.09-08.08
47.	Definition of ESR.	2	
48.	Properties and functions of erythrocytes.	2	
49.	Counting the number of erythrocytes. Determination of hemoglobin level.	2	11.09-15.09
50.	Protective properties of blood.	2	
51.	Determination of blood groups.	2	18.09-22.09
52.	Hemostasis system.	2	
53.	Assessment of clinical blood analysis. Calculation work from content module 5 "Physiology of blood".	2	
54.	Calculation work and solution of situational tasks from content module 5 "Physiology of blood".	2	25.09-29.09
55.	Final lesson from content module 5 "Blood physiology".	2	
56.	General characteristics of the circulatory system. Functional characteristics of heart muscle.	2	02.10-06.10
57.	Study of the functioning of the conduction system of the heart of a frog. Ligatures of Stanius.	2	
58.	Mechanical work of the heart. Phase analysis of the cardiac cycle.	2	
59.	Examination of the apical impulse and heart tones.	2	09.10-13.10
60.	Regulation of the heart.	2	
61.	Electrocardiography.	2	16.10-20.10
62.	Electrical work of the heart. Research methods.	2	
63.	Calculation work "Registration and analysis of ECG".	2	
64.	Basics of hemodynamics.	2	23.10-27.10
65.	Patterns of blood circulation in arterial and venous vessels.	2	

66.	Measurement of blood pressure in a person.	2	30.10-03.11
67.	Regulation of local and systemic blood circulation.	2	
68.	Study of functional tests of the cardiovascular system.	2	
69.	Solving situational tasks from content module 6 "Physiology of the cardiovascular system".	2	06.11-10.11
70.	Final lesson from content module 6 "Physiology of the cardiovascular system".	2	
71.	General characteristics of the respiratory system. Study of indicators of external respiration.	2	13.11-17.11
72.	Calculation work "Registration and analysis of spirogram".	2	
73.	Gas exchange in the lungs. Transport of gases by blood. Regulation of breathing.	2	
74.	Study of functional tests of the respiratory system.	2	
75.	General characteristics of the digestive system.	2	20.11-24.11
76.	Digestion in the mouth and stomach.	2	
77.	Digestion in the intestines. The role of the liver and pancreas.	2	27.11-01.12
78.	Absorption in the gastrointestinal tract. Absorption in the gastrointestinal tract (discussion of presentations).	2	
79.	Thermoregulation.	2	
80.	Exchange of substances and energy.	2	04.12-08.12
81.	Compilation of the food ration calculation work.	2	
82.	General characteristics of the allocation system. The structure and functions of the allocation system.	2	11.12-15.12
83.	The main processes of urine formation.	2	
84.	Calculation work "Determining indicators of filtration and reabsorption in the kidneys".	2	18.12-22.12
85.	Regulation of kidney function.	2	
86.	Solutions to situational tasks from content modules 7 - 10 "Physiology of the respiratory system", "Physiology of the digestive system", "Physiology of metabolism. Thermoregulation", "Physiology of allocation".	2	25.12-29.12
87.	Final lesson from content modules 7 – 10 "Physiology of the respiratory system", "Physiology of the digestive system", "Physiology of metabolism. Thermoregulation", "Physiology of allocation".	2	
88.	Practical skills from the course "Physiology".	2	
89.	Practical skills from the course "Physiology".	2	01.01-05.01
90.	Preparation for the "Step-1" licensing exam.	2	
Total		90	

