

**PLAN OF LABORATORY CLASSES in Normal Physiology
for the spring term for academic year 2023/2024 for the international students of
Pharmacy faculty of the 1st year studying in English**

Week of studying	Date	Groups: 6161en					
		Days of the week, lesson					
		Mon	Tue	Wed	Thu	Fri	Sat
19 (1)	12.02.-16.02.	19	19	19	19	19	×
20 (2)	19.02.-23.02.	20	20	20	20	20	×
21 (3)	26.02.-01.03	21	21	21	21	21	×
22 (4)	04.03.-07.03.	22	22	22	22	× (08.03)	×
23 (5)	11.03.-15.03.	23	23	23	23	22	×
24 (6)	18.03.-22.03.	24	24	24	24	23	×
25 (7)	25.03.-29.03.	25	25	25	25	24	×
26 (8)	01.04.-05.04.	26	26	26	26	25	×
27 (9)	08.04.-12.04.	27	27	27	27	26	×
28 (10)	15.04.-19.04.	28	28	28	28	27	×
29 (11)	22.04.-26.04.	29	29	29	29	28	×
30 (12)	29.04.-03.05.	30	30	-	30	29	×
31 (13)	06.05.-10.05.	31	31	30	× (09.05)	30	×
32 (14)	15.05.-18.05.	→ (18.05)	× (14.05)	31	31	31	32
33 (15)	20.05.-24.05.	33	32	32	32	32	×
34 (16)	27.05.-31.05.	34	33	33	33	33	×
35 (17)	03.06.-07.06.	35	34	34	34	34	×
35 (17)	10.06.-14.06.	×	35	35	35	35	×

Week of studying	Themes of practical classes (4 hours)
19 (1)	Homeostasis. Homeokinesis. Fluid media of the body and barrier functions. Blood: general properties, quantity, composition and functions. Basic constants of blood.
20 (2)	Hemopoiesis. Blood cells.
21 (3)	Hemostasis. Hemostasis system. Blood types
22 (4)	Concluding lesson on the section «The internal environment of the human body. Physiology of blood»
23 (5)	The structure and functions of the heart and blood vessels. The cardiac cycle. The concept of cardiac automatism.
24 (6)	Regulation of cardiac activity. Methods of the heart investigation.
25 (7)	Hemodynamics. Functional indices of blood circulation. Structure and functions of blood vessels. Blood pressure: its types and role. Microcirculation. Structure and functions of the lymphatic system.
26 (8)	Regional blood flow. Regulation of blood flow.
27 (9)	Lung ventilation. Gas exchange in the lungs.
28 (10)	Transport of gases by the blood. Gas exchange in tissues.
29 (11)	Regulation of respiration.
30 (12)	Concluding lesson on the sections «Anatomy and physiology of the cardiovascular and respiratory systems».
31 (13)	Structure and functions of the digestive system. Digestion in the mouth and stomach.
32 (14)	Digestion in the small and large intestine. The role of the pancreas and liver in digestion. Absorption.
33 (15)	The metabolism of substances and energy. The physiological basis of healthy eating. Physiology of thermoregulation.
34 (16)	Physiology of excretion.
35 (17)	Concluding lesson on the sections «Anatomy and physiology of the digestive system. The metabolism of substances and energy. The physiology of thermoregulation. The physiology of excretion.»

Head of the Department
of Normal Physiology, professor



V.A.Pereverzev