

**Thematic plan
of Independent Work on Physiology
for 2-nd grade English medium students of Medical Faculty
Spring semester 2022/2023 ed. years**

№	Theme	Hours	
1.	Preparation for practical classes - theoretical self-training and working on practical skills.	15	Daily supervision on practical classes
2.	Hybrid immunity, clinical significance for counteracting SARS-CoV2.	4	
3.	Investigation and functional significance of hemostasis indexes. Influence of physiological factors on hemostasis.	4	
4.	Physiological significance of reactive blood changes in different functional states of the blood.	4	
5.	Sensors and systems that control the physiological activity of the human respiratory system. Physiological bases of modern respiratory tests.	4	
6.	Features of regional blood circulation and its regulation.	2	
7.	Dynamics and mechanisms of lymphatic flow control.	2	
8.	Modern diagnostic methods for assessing the functioning of the heart and the state of vessels. Physiological principles of ultrasound imaging of the heart (one-, three-dimensional echocardiography, ultrasound of the heart, arteries, veins)	4	
9.	Modern methods of diagnosing the individual state of the cardiovascular system (functional studies: dosed load test, Harvard step test, Navakki test, bicycle ergometry, treadmill test, Holter ECG monitoring; medical gadgets).	4	
10.	Intelligent systems (IS) of the main vital signs.	4	
11.	Investigation of the functional state of the liver in terms of metabolism of proteins, fats and carbohydrates and modern instrumental methods (ultrasound, electrography).	4	
12.	Modern methods of the diagnostics of digestive system.	4	
13.	Regulation of water-electrolyte balance by kidneys.	4	
14.	Significance of metabolite content and enzyme activity to assess renal function.	4	
15.	Literature analysis and discussion of individual self work.	3	
16.	Preparation for the final control.	18	
Total		84	

Т.в.о. завідувача кафедри



доц. Савицька М.Я.