Thematic plan of laboratory works on normal physiology for students studying in English medium (III semester 2025-2026 year)

№	Name of subjects, content	Number of hours
1.	1. SUBJECT AND METHODS OF NORMAL PHYSIOLOGY	4
	1.1. Instructions on safety rules	08.09.25
	1.2. Blood sampling method from a finger	12.09.25
	1.3. Fresh blood sample under the microscope	
	PHYSIOLOGY OF BLOOD	
2.		4
	2. FUNCTIONS AND PHYSICAL-CHEMICL PROPERTIES OF BLOOD. PHYSIOLOGY OF ERYTHROCYTES.	15.09.25 19.09.25
	2.1. Measurement of hematocrit number	2510>125
	2.2. Measurement of erythrocytes amount	
3.	3. PHYSIOLOGY OF LEUCOCYTES AND THROMBOCYTES. BLOOD COAGULATION	4
	SYSTEM	22.09.25
	3.1. Measurement of hemoglobin amount in blood by Sali method	26.09.25
	3.2. Calculation of erythrocyte indices	20.07.23
	3.3. Evaluation of leukocyte morphology.	
	3.4. Measurement of blood coagulation time by Althousen	
4.	4. ESR. BLOOD GROUPS. REGYLATION OF HAEMOPPOESIS.	4
	4.1. Examination of various kinds of hemolysis.	29.09.25
	4.2. Examination of osmotic resistance of erythrocytes	03.10.25
	4. 3. Measurement of erythrocyte sedimentation rate (ESR) by T.P. Panchenkov	
	4.4. Blood groups determination	
	4.5. Determination of rhesus-factor (Rh) of blood	
5.	CONTROL CLASS ON THE TOPIC «PHYSIOLOGY OF BLOOD»	4
		06.10.25
		10.10.25
	PHYSIOLOGY OF EXCITABLE TISSUES	_
6.	6. MEMBRANE RESING POTENTIAL. ACTION POTENTIAL	4
	6.1. Dynamometry. Measuring of human power. Torso dynamometry.	13.10.25
		17.10.25
7.	7. PHYSIOLOGICAL PROPERTIES OF SKELETAL AND SMOOTH MUSCLES	4
	7.1. PWC measurement by step-test method	20.10.25
	7.2. Veloergometry. Measurement of physical working capacity by PWC170 test	24.10.25
	CENTRAL NERVOUS SYSTEM	
8.	8. GENERAL PRINCIPLE OF COORDINATION ACTIVITY OF CNS.	4
	CONCEPT OF NERVOUS CENTERS. INHIBITION IN CNS	27.10.25
	8.1. Examination of reflex reactions of the person	31.10.25
9.	9. PHYSIOLOGY OF SPINAL CHORD, BRAIN STEM, MIDBRAIN, DIENCEPHALON.	4
	9.1. Examination of redistributing vascular reactions of the organism by rheovasography method	03.11.25
		07.11.25
10	10. REFLEX ACTIVITY OF THE VEGETATIVE NERVOUS SYSTEM.	4
10	10.1. Evaluation of the state and the reactivity vegetative nervous system by method of	10.11.25
	cardiointervalography	14.11.25
	10.2. Evaluation of vegetative tonus by Kerdo index	14.11.25

11.	CONTROL CLASS ON TOPICS «PHYSIOLOGY OF EXCITABLE TISSUES»,	4
11.	«GENERAL AND PARTICULAR PHYSIOLOGY OF CNS»	-
	"OLNERAL AND FARTICULAR FITTSIOLOGT OF CIS"	17.11.25
		21.11.25
	ENDOCRINE SYSTEM	
12.	12. ENDORINE SYSTEM, PHYSIOLOGICAL ROLE, REGULATION OF HORMONS	4
	FORMATION	24.11.25
	12.1. Evaluation of human height	28.11.25
	12.2. Identification of persons with high risk of diabetes mellitus by questionnaire method 13 HORMONAL REGULATION OF PHYSIOLOGICAL FUNCTIONS	
	13.1. Influence of thermal procedures on the activity of medullary layer of adrenal glands	
	13.2. Analysis of conception scale at menstrual cycles f various duration	
	PHYSIOLOGY OF RESPIRATION	
13.	14. MECHANISM OF RESPIRATORY MOVEMENTS. RESPIRATORY VOLUMES AND	4
	CAPACITIES.	01.12.25
	14.1. Spirometry. Definition of vital capacity of lungs and its volumes.	05.12.25
		05.12.25
14.	15. GAS EXCHANGE IN LUNGS AND TISSUES. TRANSPORT OF GASES BY BLOOD	4
	15.1. Spirography.	08.12.25
		12.12.25
15.	16. REGULATION OF RESPIRATION. FUNCTIONAL METHODS OF EXAMINATION OF	4
13.	RESPIRATORY SYSTEM	15.12.25
	16.1. Functional test with breath-holding (Genche's and Stange's tests)	
		19.12.25
16.	CONTROL CALSS ON TOPICS «PHYSIOLOGY OF ENDOCRINE SYSTEM»,	4
	«PHYSIOLOGY OF RESPIRATION»	22.12.25
		26.12.25
17.	FUNCTIONAL TESTS FOR EXAMINATION OF RESPIRATORY SYSTEM	4
	16.2. Evaluation of functional state of respiratory system and cardiovascular system by	29.12.25
	Skibinskaya's index	02.01.26
	16.3. Evaluation of physical endurance in person by calculation of cardiorespiratory index	02.02.20
18.	CONTROL CLASS	3
		05.01.26
		09.01.26
		03.01.20