



ОҢТҮСТІК ҚАЗАҚСТАН <b>MEDISINA</b> <b>AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ		 SOUTH KAZAKHSTAN <b>MEDICAL</b> <b>ACADEMY</b> АО «Южно-Казахстанская медицинская академия»
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 1 of 22

## Department of Normal and Pathological Physiology

### Working program of the discipline (Syllabus)


#### Educational program 'General Medicine'

1.	General information about the discipline		
1.1	Discipline code: MF-2201-2	1.6	Academic years: 2022-2023
1.2	Discipline name: ‘Morphology and Physiology’	1.7	Year: 2
1.3	Prerequisites: basics of anatomy, histology, and physiology.	1.8	Semester: 3
1.4	Postrequisites: general pathology (pathological anatomy, pathological physiology).	1.9	Number of credits (ECTS): 4
1.5	Cycle: BD	1.10	Component: compulsory
2.	Discipline description (up to 150 words)		
Physiology is a fundamental experimental and theoretical science about the vital activity of the whole organism, physiological systems, organs, cells and individual cellular structures, mechanisms of regulation when an organism interacts with an environment.			
3.	Summative assessment forms		
3.1	MCQ testing	3.5	Course work
3.2	Writing +	3.6	Essay
3.3	Oral response	3.7	Project
3.4	OSPE / OSCE or testing practical skills +	3.8	Other (specify)
4.	Goals of the discipline		
	Formation of the notions about the structure and functions of all body systems of a healthy person and mechanisms regulating them.		
5.	Learning outcomes (LO) of the teaching		
LO1	Demonstration of knowledge on the structure, topography, the functions of organs and organ systems, the fundamental laws of organo- and histogenesis;		
LO2	Demonstration of knowledge on the basic methods of working with anatomical, histological, physiological preparations, and teaching aids;		
LO3	Identification of organs, their parts, structural details on anatomical and histological preparations and description of their functions;		
LO4	Skills of diagnostics at the microscopic and ultramicroscopic levels;		
LO5	Systematization of the knowledge on anatomy, histology and physiology for mastering the skills of physical examination and first aid;		
LO6	Ability to find and determine the location and projection of organs and their parts on the body surface.		
5.1	The discipline learning outcomes (LO of the discipline)	Learning outcomes that the discipline LOs are connected to	
5.1	LO1	Student demonstrates knowledge and understanding of biomedical sciences for diagnostics, treatment, dynamic observation of the most common diseases in adults and children.	
	LO2	Based on the principles of evidence-based medicine, a student is able to conduct outpatient appointments, diagnostics, treatment, dynamic observation and rehabilitation of children and adults, including pregnant women, determines the indications for hospitalization.	


<p>             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ         </p>		 <p>             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»         </p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 2 of 22

	LO3	A student is able to provide emergency and fast, qualified medical care of the fundamental category of complexity to patients of adults and children.
	LO4	A student analyzes the results of screening programs, carries out prevention of common diseases, vaccination and finds sources of information for the development of primary health care.
	LO5	A student complies with the principles of organizing general medical practice and achieves the goals of providing qualified care at the primary health care level.
	LO6	A student communicates effectively in medical practice, taking into account the peculiarities of the psychology of children and adults, multiculturalism, keeping the principles of medical ethics and deontology.


<b>6. Details of the discipline</b>						
<b>6.1</b>	Location of the Department (the building, rooms): Shymkent city, Al-Farabi square, educational block No. 2, 4th-5th floors; tel.: 40-82-26 (422,423)					
<b>6.2</b>	Number of hours	Lectures	Practical lessons	Laboratory lessons	Student's individual work (SIW)	Student and teacher's individual work (SIWT)
		10	30	-	56	24
<b>7. Information on teachers</b>						
№	Full name	Degree and position	e-mail	Scientific interests, etc.	Achievements	
1.	Zhakupbekova Galiya Saparkyzy	head of the department, candidate of biological sciences, acting professor	Galiya_074@mail.ru	Works on the topic "Influence of bioslastilin on the processes of lipid peroxidation in the hepatocyte and blood plasma during phosphorus intoxication"	Author of 35 scientific publications, prepared 1 prepatent, 1 patent	
2.	Kerimov Rassim A	senior teacher, master of medicine	kir- 2004@list.ru	The theme of a doctoral dissertation is 'Diagnostic criteria and risk factors for colorectal cancer in Kazakhstan.'	Author of more than 25 scientific articles, including one indexed by the Scopus database (percentile – 45); provides physiology lectures and practical classes in English.	
3.	Satybaldieva Nazgul Mutalkhankyzy	master, senior teacher	n_a_z_i_92@mail.ru	The topic of the scientific-research work is «Тыныс	Provide practical physiology classes in Kazakh	

ОҢТҮСТІК ҚАЗАҚСТАН <b>MEDISINA</b> <b>AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ		 SOUTH KAZAKHSTAN <b>MEDICAL</b> <b>ACADEMY</b> АО «Южно-Казахстанская медицинская академия»
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 3 of 22


				жүйесі Ауруларынан туындайтын мүгедектіктің әлеуметтік- медициналық мәселелері». Author of 8 scientific articles.	and Russian.	
4.	Izbasarova Madina Seisenalikyzy	master, senior teacher	madiko91.91@ma il.ru	The topic of the scientific-research work is «Сайрам ауданы көпбалалы отбасылары балаларының аурушандық көрсеткішінің деңгейі мен құрылымы». Author of 8 scientific articles.		
8.	Thematic plan					
Week / day	Theme	Brief Description	The discipline learning outcomes (the discipline LO)	Duration (hours)	Forms / Methods / Learning Technologies	Forms / methods of assessment
1	Lecture. Physiology of the central nervous system.	Motor, sensory, regulatory, conductive and integrative functions of the spinal cord, medulla oblongata, hindbrain, midbrain, diencephalon and cerebral hemispheres.	PO1	1	Review	–
	Practical lesson. Physiology of the spinal cord.	Structural and functional characteristics of the spinal cord. Ascending and descending pathways of the spinal cord.	PO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	SIWT. Consultation on SIW preparation The neural pathways of the spinal cord.	Structural and functional characteristics of the spinal cord. Ascending and descending tracts of the spinal cord. Anterolateral system, dorsal column medial	PO1	2/3	Preparation and presentation defence	Checking and presentation

<p style="text-align: center;">             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ           </p>			<p style="text-align: center;">             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»           </p>
Department of Normal and Pathological Physiology			044-53/11
Syllabus, GM, 2 <sup>nd</sup> year			P. 4 of 22


		lemniscus pathway. Pyramidal and extra-pyramidal pathways.				
2.	<i>Lecture.</i> Physiology of analyzers.	Three chains of the analyzers. Role of the peripheral, intermediate and central parts. Auditory and visual analyzers.	LO1	1	Review	–
	<i>Practical lesson.</i> The Medulla Oblongata, Hindbrain and Midbrain.	Structural and functional characteristics of the medulla oblongata and hindbrain; their relation with other divisions of the central nervous system.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> The functions of the main nuclei of the medulla oblongata and hindbrain. The cranial nerves of the medulla oblongata and the pons.	Functions of the different nuclei of the medulla oblongata and pons. Functions of cranial nerves originating there. The mechanism of motor coordination by the cerebellum.	LO1	2/3	Preparation and presentation defence	Checking and presentation
3	<i>Practical lesson.</i> Physiology of the diencephalon and cerebrum.	Structural and functional characteristics of the diencephalon and cerebral cortex of the hemispheres; their relation with other divisions of the central nervous system. Functions of the basal ganglia and limbic system. The Brodmann's areas.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> The functions of the midbrain: four colliculi of the tectum, main nuclei. Main functions of the diencephalon.	Functions of the cranial nerves of the midbrain. Relaying function of the thalamus. The main nuclei of the diencephalon.	LO1	1/4	Preparation and presentation defence	Checking and presentation
4	<i>Lecture.</i> Physiology of the cardiac activity.	Pumping function of the heart. Regulation of cardiac activity. Methods of research of cardiac activity.	LO1	1	Review	–

<p style="text-align: center;">             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ           </p>		 <p style="text-align: center;">             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»           </p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 5 of 22

	<i>Practical lesson.</i> Visual, auditory, vestibular, taste, and olfactory analyzers.	Structural and functional features of the visual, auditory, vestibular, taste, and olfactory analyzers. The mechanism of auditory reception. Interaction between the olfactory, taste and visual analyzers.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> The mechanism of gustatory and olfactory reception.	The main parts of the analyzers. Mechanisms of reception of taste and smell. Nerve pathways of the gustatory and olfactory analyzers. Areas of the cerebral cortex responsible for the taste and smell analyses.	LO1	2/3	Preparation and presentation defence	Checking and presentation
5	<i>Lecture.</i> Physiology of the lymphatic system. Functions of haemopoietic organs. Immunity.	Lymphatic vessels. Circulation of the lymph. Haemopoiesis. Types of immunity.	LO1	1	Review	–
	<i>Practical lesson.</i> Physiology of the heart. Research methods of cardiac activity.	Physiological properties of the cardiac muscle. Phases of the cardiac cycle. Regulation and innervations of the heart. Research methods of cardiac activity.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> The nature of the automatism of the cardiac muscle. Features of contraction of the cardiac muscle. The effect of blood electrolytes on cardiac activity	Conductive system of the heart. Features of intracardiac blood circulation. Regulation of cardiac activity. The effect of potassium and calcium on the activity of the cardiac muscle.	LO1	2/3	Preparation and presentation defence	Checking and presentation
6	<i>Practical lesson.</i> Basic laws of haemodynamics.	Parameters of haemodynamics. Nervous and humoral regulation of	LO1	2	Discussion of the topic, practical works, MCQ, case	Oral questioning, assessment of MCQ,


<p>ONȚUSTIK QAZAQSTAN  <b>MEDISINA  AKADEMIASY</b>  «Оңтүстік Қазақстан медицина академиясы» АҚ</p>		 <p>SOUTH KAZAKHSTAN  <b>MEDICAL  ACADEMY</b>  АО «Южно-Казахстанская медицинская академия»</p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 6 of 22

		blood flow through the blood vessels. Time of blood circulation. Methods of research.			tasks	case tasks
	<i>SIWT.</i> Physiological factors influencing blood pressure.	Movement of the blood in different vessels. Nervous and humoral regulation of blood flow through the blood vessels. Methods of research	LO1	1/4	Preparation and presentation defence	Checking and presentation
7	<i>Lecture.</i> Physiology of the endocrine glands.	Functions of the hypophysis, epiphysis, thyroid, parathyroid glands, adrenal glands.	LO1	1	Review	–
	<i>Practical lesson.</i> Physiology of the haematopoietic organs.	Role of the red bone marrow, the thymus, the spleen, the liver and lymph nodes in the process of haematopoiesis. Main clinical and haematological research methods of haematopoietic organs.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> <b>Midterm examination 1</b>	Themes of lectures, practical classes, SIWs, studied during 1-7 <sup>th</sup> weeks	LO1	2	examination by cards, MCQ testing	Assessment of examination by cards, MCQ testing
8	<i>Lecture.</i> Functions of the digestive system.	Physiology of the digestive system. Motor, secretory, absorptive, and excretory functions. The role of the liver and pancreas in digestion. The role of the microflora of the large intestine. Defecation.	LO1	1	Review	–
	<i>Practical lesson.</i> Special physiology of the endocrine glands.	Structural and functional characteristics of the hypothalamic-pituitary-adrenal system, epiphysis, thyroid, parathyroid, thymus, pancreas and gonads. Methods of research.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> The hypothalamic-pituitary system.	Particular endocrine glands and their hormones. Main functions of these	LO1	2/3		Checking and

<p>             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ           </p>		 <p>             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»           </p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 7 of 22

	Peripheral endocrine glands, their hormones and functions.	hormones. Hyper- and hypoproduction of hormones.			Preparation and presentation defence	presentation
9	<i>Practical lesson.</i> Digestion in the oral cavity and the stomach.	Functions of the gastrointestinal tract. The notion of digestion. Types of digestion. Physical and chemical processing of the food in the oral cavity and the stomach. The composition and function of saliva. Enzymatic properties of gastric juice. Clinical and physiological methods of research.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> The functions of the special components of the gastric juice. Pyloric reflex. Hormones which affect the motility and secretion of the stomach.	The composition of the gastric juice. The role of pepsin, rennin (chymosin), gastric lipase, mucin, hydrochloric acid. The mechanism of the pyloric reflex.	LO1	1/4	Preparation and presentation defence	Checking and presentation
10	<i>Lecture.</i> Physiology of respiration.	Regulation of breathing. Transport of gases by blood. Diffusion of gases in different media. Methods for studying the breathing.	LO1	1	Review	–
	<i>Practical lesson.</i> Functions of the small and large intestines. The role of the liver and pancreas for digestion.	Motor, secretory, absorptive and excretory functions of the small and the large intestines. The role of the liver and pancreas in digestion. Role of the large intestine microbiota. Defecation.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> The functions of the hepatic lobules. The role of the special components of bile and pancreatic juice in digestion. Microflora of the large intestine.	The functions of the hepatic lobules. The role of the special components of bile and pancreatic juice for digestion. Microflora of the large intestine.	LO1	2/3	Preparation and presentation defence	Checking and presentation



<p style="text-align: center;">             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ           </p>		 <p style="text-align: center;">             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»           </p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 8 of 22

11	<i>Lecture.</i> Physiology of the excretory system. Skin functions.	Structural and functional unit of the kidneys. Basics of the urine formation. Excretory and non-excretory functions of the skin.	LO1	1	Review	–
	<i>Practical lesson.</i> Physiology of the respiratory system: mechanism of exhalation and inhalation.	Stages of the breathing process. Mechanism of exhalation and inhalation. Lung volumes and lung capacities. The structural and functional unit of the lungs. Blood-air barrier.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> The mechanism of inhalation and exhalation. Pulmonary volumes.	The physiological basis of respiration. Vital capacity. Expiratory and inspiratory reserve volumes. Tidal volume.	LO1	2/3	Preparation and presentation defence	Checking and presentation
12	<i>Practical lesson.</i> Physiology of the respiratory system: regulation of breathing	Gas exchange in the lung and systemic circulations. Regulation of breathing.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> The mechanisms of diffusion of oxygen and carbon dioxide in the lung and systemic circulations. Regulation of breathing.	Diffusion of gases in the lung and systemic circulation. Oxygen and carbon dioxide transport by the blood. Reflexive and humoral regulation of respiration.	LO1	1/4	Preparation and presentation defence	Checking and presentation
13	<i>Lecture.</i> The regulation of urine formation. Role of the kidneys in regulating the water-electrolyte balance of the body. Urine excretion.	The basic mechanism of urine formation, ways of regulating the water-electrolyte balance of the body. Renin-angiotensin-aldosterone system. The reflex of urination.	LO1	1	Review	–
	<i>Practical lesson.</i> Excretory functions of the kidneys.	Urinary tract. The basic processes of urine formation. The composition of the final	LO1	2	Discussion of the topic, practical works, MCQ, case	Oral questioning, assessment of MCQ,



Department of Normal and Pathological Physiology	044-53/11
Syllabus, GM, 2 <sup>nd</sup> year	P. 9 of 22


	Processes of urine formation.	urine.			tasks	case tasks
	<i>SIWT.</i> Mechanisms of glomerular filtration, reabsorption and secretion. Countercurrent Multiplier System	Filtration pressure. Factors that decrease and increase filtration pressure. The importance of reabsorption and secretion. The physiological significance of the countercurrent multiplier system.	LO1	2/3	Preparation and presentation defence	Checking and presentation
14	<i>Lecture.</i> The human reproductive system. Male and female reproductive systems. Age features.	The role of the human reproductive system. Structural and functional characteristics of the organs of the male reproductive system. Physiology of the female reproductive system. Menstrual cycle. Fertilization. Pregnancy. Childbirth. Lactation. Functions of the mammary glands. Regulation.	LO1	1	Review	–
	<i>Practical lesson.</i> Regulation of urine formation. Urine excretion. Functions of the skin.	Non-excretory functions of the kidneys. Regulation of urination. Functions of the bladder. Skin functions.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> <b>Midterm examination 2</b>	Themes of lectures, practical classes, SIWs, studied during 9-15 <sup>th</sup> weeks	LO1	1	examination by cards, MCQ testing	Assessment examination by cards, MCQ testing
15	<i>Practical lesson.</i> Human reproductive functions.	The role of the human reproductive system. Structural and functional characteristics of the male and female reproductive organs. Menstrual cycle. Fertilization. Pregnancy. Childbirth. Mammary gland functions.	LO1	2	Discussion of the topic, practical works, MCQ, case tasks	Oral questioning, assessment of MCQ, case tasks
	<i>SIWT.</i> The functions of male and female sex hormones. Ovarian and uterine phases of the menstrual cycle.	Primary and secondary sexual characteristics. Spermatogenesis. Oogenesis. Menstrual cycle.	LO1	1/4	Preparation and presentation defence	Checking and presentation

Department of Normal and Pathological Physiology	044-53/11
Syllabus, GM, 2 <sup>nd</sup> year	P. 10 of 22


	Preparation and conduct of intermediate attestation		12		
9.	Methods of teaching				
9.1	Lectures	Review			
9.2	Practical lessons	discussion of the main points of the theme, performing practical work, MCQ testing, solving case tasks			
9.3	SIW/SIWT	Making of an essay, making and defence of a presentation			
9.4	Midterm examination	Examination by cards, MCQ testing			
10.	Assessment criteria				
Evaluation by Letter System		Equivalent of Points	Percentage	Evaluation According to the Traditional System	
A		4.0	95-100%	excellent	
A-		3.67	90-94%		
B+		3.33	85-89%	good	
B		3.0	80-84%		
B-		2.67	75-79%		
C+		2.33	70-74%		
C		2.0	65-69%	satisfactorily	
C-		1.67	60-64%		
D+		1.33	55-59%		
D-		1.0	50-54%		
F <sub>x</sub>		0.5	25-49%	unsatisfactory	
F		0	0-24%		
Oral response					
Form of control		Evaluation		Criteria for evaluation	
Discussion of the main points of the theme		Excellent Corresponds to points: 95-100 90-94		During the answer, the student does not make any mistakes, is guided in the theories, concepts and directions of the discipline studied, gives them a critical evaluation, and uses the scientific achievements of other disciplines.	
		Good Corresponds to points: 85-89 80-84 75-79 70-74		During answering, a student does not make gross mistakes but makes inaccuracies and unprincipled errors corrected by himself, systematizes the program material with the help of a teacher.	
		Satisfactorily Corresponds to points: 65-69 60-64 50-54		During answering, a student makes fundamental mistakes, is limited only by educational literature indicated by a teacher, faces great difficulties in systematizing the material.	
		Unsatisfactory Corresponds to points 25-49		During answering, a student makes gross mistakes, does not work with the main literature on the topic, fails to use the scientific terminology	

<p>             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ           </p>		<p>             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»           </p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 11 of 22


	0-24	on histology and physiology.
<b>Practical work, discussion of research results</b>		
<b>Form of Control</b>	<b>Evaluation</b>	<b>Criteria for Evaluation</b>
Fulfilment of the practical work	Excellent Corresponds to points: 95-100 90-94	A student fulfils a practical work in time and without any mistakes and provides a report on it, takes an active part in a discussion of the research results, makes sensible conclusions, shows original thinking at the same time.
	Good Corresponds to points: 85-89 80-84 75-79 70-74	A student carries out practical work on time and reports on it, making unprincipled errors, taking an active part in the discussion of the study results.
	Satisfactorily Corresponds to points: 65-69 60-64 50-54	A student carries out practical work on time and reports on it, having made fundamental mistakes, during a discussion does not show activity, needs the help of a teacher.
	Unsatisfactory Corresponds to points 25-49 0-24	A student does not timely report on practical work, makes gross mistakes, does not complete all the practical work envisaged by the program, does not take part in a discussion of results.
<b>MCQ testing</b>		
<b>Form of control</b>	<b>Evaluation</b>	<b>Criteria for Evaluation</b>
MCQ Testing	Excellent Corresponds to points: 95-100 90-94	A student answers correctly 90-100% of the MCQ tasks.
	Good Corresponds to points: 85-89 80-84 75-79 70-74	A student answers correctly 75-89% of the MCQ tasks.
	Satisfactorily Corresponds to points: 65-69 60-64 50-54	A student answers correctly 50-74% of the MCQ tasks.
	Unsatisfactory Corresponds to points 25-49	A student answers correctly less than 50% of the MCQ tasks.

ОҢТҮСТІК ҚАЗАҚСТАН <b>MEDISINA</b> <b>AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ		 SOUTH KAZAKHSTAN <b>MEDICAL</b> <b>ACADEMY</b> АО «Южно-Казахстанская медицинская академия»
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 12 of 22

	0-24	
<b>Solving Case Tasks</b>		
<b>Form of Control</b>	<b>Evaluation</b>	<b>Criteria for Evaluation</b>
Solving Case Tasks	Excellent Corresponds to points: 95-100 90-94	A student actively participates in solving situational problems, shows original thinking, profound knowledge of the material, uses scientific advances of other disciplines during a discussion.
	Good Corresponds to points: 85-89 80-84 75-79 70-74	A student actively participates in the work, shows knowledge of a material, makes non-principle inaccuracies or mistakes, corrected by a student himself.
	Satisfactorily Corresponds to points: 65-69 60-64 50-54	During the work in the group, a student is passive, makes inaccuracies and principle mistakes, experiences great difficulties in systematizing a material.
	Unsatisfactory Corresponds to points 25-49 0-24	A student does not take part in the work of a group; while answering the teacher's questions, a student makes principle mistakes and inaccuracies, does not use scientific terminology in answering.
<b>Preparation and Defense of an Essay</b>		
<b>Form of Control</b>	<b>Evaluation</b>	<b>Criteria for Evaluation</b>
Preparation and defence of an essay	Excellent Corresponds to points: 95-100 90-94	A student prepares an essay on a topic by an appointed time, independently, accurately, with the volume of at least 10 pages of an A4 format with a single line spacing and a font size of 14, using at least 5 sources; in the essay, there is a detailed plan, cited schemes, tables and figures, corresponding to the topic; during the defence of an essay, a student does not read the text, answers confidently without mistakes; all the questions are answered.
	Good Corresponds to points: 85-89 80-84 75-79 70-74	A student prepares an essay on a topic by an appointed time, independently, accurately, with the volume of at least 10 pages of an A4 format with a single line spacing and a font size of 14, using at least 5 information sources; in the essay, there is a detailed plan, cited schemes, tables and figures, corresponding to the topic; during the defence of an essay, a student does not read the text, answers confidently without mistakes; while answering questions, a student makes

ОҢТҮСТІК ҚАЗАҚСТАН <b>MEDISINA</b> <b>AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ		 SOUTH KAZAKHSTAN <b>MEDICAL</b> <b>ACADEMY</b> АО «Южно-Казахстанская медицинская академия»
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 13 of 22

		unprincipled mistakes.
	Satisfactorily Corresponds to points: 65-69 60-64 50-54	A student prepares an essay on a topic by an appointed time, independently, but inaccurately, with a volume of at least 10 pages of an A4 format with a single line spacing and a font size of 14, using less than 5 information sources and having an undeveloped plan; during a defence of an essay, a student reads the text, answers uncertainly, makes fundamental mistakes.
<b>Preparation and Defense of a Presentation</b>		
Form of Control	Evaluation	Criteria for Evaluation
Preparation and Defense of a Presentation	Excellent Corresponds to points: 95-100 90-94	A student prepares a presentation on a topic by an appointed time, independently, accurately, with a minimum of 20 laconic and informative slides, using at least 5 information sources; a presentation contains a detailed plan, schemed, tables and figures corresponding to a topic; during a defence of a presentation, a student shows a profound knowledge of the subject, accurately answers all the questions asked.
	Good Corresponds to points: 85-89 80-84 75-79 70-74	A student prepares a presentation on a topic by an appointed time, independently, accurately, with a minimum of 20 laconic and informative slides, using at least 5 information sources; a presentation contains a detailed plan, schemes, tables and figures corresponding to a topic; during a defence of a presentation, a student shows a good knowledge of a subject; while answering questions, a student does not make principal mistakes.
	Satisfactorily Corresponds to points: 65-69 60-64 50-54	A student prepares a presentation on a topic by an appointed time, independently but inaccurately, with a minimum of 20 non-informative slides, using fewer than 5 information sources; a presentation contains an undeveloped plan, an insufficient number of schemes, tables and drawings corresponding to the topic; during a defence of a presentation, a student uncertainly answers questions, makes principal mistakes.
	Unsatisfactory Corresponds to points 25-49 0-24	A student does not prepare a presentation on a topic by an appointed time, or prepares it timely, but non-independently, inaccurately, with a volume of fewer than 20 non-informative slides, without indicating information sources; a

<p>             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ         </p>		 <p>             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»         </p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 14 of 22

		presentation does not contain a plan; while answering questions, a student makes gross mistakes or could not answer questions and does not defend a presentation.
--	--	---

### CHECK LIST

FULL NAME of the student \_\_\_\_\_


#### *Criteria for evaluating a presentation in a multimedia format*

No.	Criteria	LVL			
		excellent 90-100	good 70-89	satis 50-69	unsatis 49 -0
1.	Presence of a title slide with a title, a presentation plan, a sufficient number of slides, a list of used printed and Internet sources.	10	7.5	5	0
2.	A content of a presentation corresponds to a topic and tasks.	10	7.5	5	0
3.	Slides are located in a logical order.	10	7.5	5	0
4.	The style of a material presentation (laconism, clear formulation, coherence).	10	7.5	5	0
5.	Use of modern information sources to sufficient extent.	10	7.5	5	0
6.	An ability to generalize a material with clear conclusions.	10	7.5	5	0
7.	Level of orientation in a presentation material.	10	7.5	5	0
8.	Ability to communicate clearly, competently, consistently.	10	7.5	5	0
9.	Ability to defend own position and ability to react constructively to criticism.	10	7.5	5	0
10.	The quality of design of the slides (colour, clarity, etc.).	10	7.5	5	0
	Total	100	75	50	0

Teacher's signature \_\_\_\_\_

#### The average score for a midterm control.

Form of Control	Evaluation	Criteria for Evaluation
-----------------	------------	-------------------------


<p style="text-align: center;">             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ           </p>		 <p style="text-align: center;">             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»           </p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 15 of 22

Midterm in the form written interviews and MCQ testing	<p style="text-align: center;">Excellent Corresponds to points: 95-100 90-94</p>	<p>During answering, a student does not make any mistakes or inaccuracies. A student orients in theories, concepts and branches of the studied discipline and gives them a critical evaluation, using the scientific achievements of other disciplines.</p> <p>90-100% of correct answers by tests.</p>
	<p style="text-align: center;">Good Corresponds to points: 85-89 80-84 75-79 70-74</p>	<p>During answering, a student does not make gross mistakes, makes non-principle inaccuracies or principle mistakes corrected by a student self; a student manages to systematize a program material with the help of a teacher.</p> <p>70-89% of correct answers by tests.</p>
	<p style="text-align: center;">Satisfactorily Corresponds to points: 65-69 60-64 50-54</p>	<p>During answering, a student makes inaccuracies and non-principle mistakes; the answer is limited only by the educational literature indicated by a teacher; a student experiences great difficulties in systematising the material.</p> <p>50-69 of correct answers by tests.</p>
	<p style="text-align: center;">Unsatisfactory Corresponds to points 25-49 0-24</p>	<p>During answering, a student makes principle mistakes, does not work with the basic literature on a topic of a lesson; does not know how to use the scientific terminology of the discipline; answers with gross stylistic and logical mistakes. There are less than 50% of correct answers by tests.</p>

#### Final control during intermediate attestation

Form of Control	Evaluation	Criteria for Evaluation
Objective structured practical examination (OSPE)	<p style="text-align: center;">Excellent Corresponds to points: 95-100 90-94</p>	A student correctly completes the randomly chosen tasks, shows a deep knowledge of the discipline
	<p style="text-align: center;">Good Corresponds to points: 85-89 80-84 75-79 70-74</p>	A student correctly completes the randomly chosen tasks, shows good knowledge of the discipline
	<p style="text-align: center;">Satisfactorily Corresponds to points: 65-69 60-64 50-54</p>	A student completes correctly the randomly chosen tasks, resorting to the help of a teacher, shows satisfactory knowledge of the discipline.
	<p style="text-align: center;">Unsatisfactory</p>	A student incorrectly completes or doesn't




<p style="text-align: center;">             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ           </p>		 <p style="text-align: center;">             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»           </p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 16 of 22

	Corresponds to points 0-49	complete the randomly chosen tasks at all, shows unsatisfactory knowledge of the discipline
MCQ testing	Excellent Corresponds to points: 95-100 90-94	A student fulfils correctly 90-100% of the MCQ tasks.
	Good Corresponds to points: 85-89 80-84 75-79 70-74	A student fulfils correctly 70-89% of the MCQ tasks.
	Satisfactorily Corresponds to points: 65-69 60-64 50-54	A student fulfils correctly 50-69% of the MCQ tasks.
	Unsatisfactory Corresponds to points 25-49 0-24	A student fulfils correctly less than 50% of the MCQ tasks.


#### Criteria for assessment of the tasks in online learning

Form of Control	Evaluation	Criteria for Evaluation
Practical work, solving case tasks, interpretation of the results of clinical and laboratory studies, discussion of the main points of the topic, performing MCQ tasks, preparing an essay, preparing and defending a presentation preparing and defending	Excellent Corresponds to points: 95-100 90-94	* A student prepares and demonstrates the performance of tasks placed in the module; 'Assignments' in Platonus (case tasks, presentation, essay and other material on the topic of the lesson (assessment criteria are indicated above) – 38-40%; * A student answers the control questions logically, reasonably, competently – 18-20%; * A student correctly completes the MCQ tasks (assessment criteria are indicated above) – 18-20%; * A student asks the questions logically, competently – 8-10%; * A student is active in the chat – 8-10%.
	Good Corresponds to points: 85-89 80-84 75-79 70-74	* A student prepares and demonstrates the performance of tasks placed in the module 'Assignment' in Platonus (case tasks, presentation, essay and other material on the topic of the lesson (assessment criteria are indicated above) – 35-38%; * A student answered questions making minor mistakes – 10-18%;


<p>             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ         </p>		 <p>             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»         </p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 17 of 22

		<ul style="list-style-type: none"> <li>* A student completes the MCQ tasks (assessment criteria are indicated above) – 15-18%;</li> <li>* A student makes inaccuracies in the formulation of questions, corrected them on his own – 5-8%;</li> <li>* A student shows low activity in the chat – 5-7%.</li> </ul>
	<p>Satisfactorily</p> <p>Corresponds to points:</p> <p>65-69</p> <p>60-64</p> <p>50-54</p>	<ul style="list-style-type: none"> <li>* A student prepares and demonstrates the performance of tasks placed in the module 'Assignment' in Platonus (case tasks, presentation, essay and other material on the topic of the lesson (assessment criteria are indicated above) – 30-35%;</li> <li>* A student answers the questions making principal mistakes – 5-10%;</li> <li>* A student made mistakes when performing MCQ tasks (assessment criteria are indicated above) – 10-15%;</li> <li>* The student makes principal inaccuracies in the formulation of questions – 3-5%;</li> <li>* A student shows little activity in the chat – 2-4%.</li> </ul>
	<p>Unsatisfactory</p> <p>Corresponds to points</p> <p>25-49</p> <p>0-24</p>	<ul style="list-style-type: none"> <li>* A student doesn't prepare and demonstrates no performance of the tasks placed in the module 'Assignment' in Platonus (case tasks, presentation, essay and other material on the topic of the lesson (evaluation criteria, see above) – 0-30%;</li> <li>* A student answers incorrectly or doesn't answer the questions at all – 0-5%;</li> <li>* A student makes a lot of principal mistakes when performing MCQ tasks (see the evaluation criteria above) – 0-10%;</li> <li>* When formulating questions, a student makes principal mistakes or doesn't ask them at all – 0-3%;</li> <li>* A student shows no activeness in the chat – 0-1%.</li> </ul>


<b>11.</b>	<b>Learning resources</b>
Electronic resources include but are not limited by: databases, animation simulators, professional blogs, websites, other reference materials (for example video, audio, digest)	<p>Website of UKMA:  <a href="https://ukma.kz">https://ukma.kz</a></p> <p>Electronic sources:</p> <ol style="list-style-type: none"> <li>1. Нормальная физиология [Электронный ресурс] : учебник / под ред. Б. И. Ткаченко. - 3-е изд., испр. и доп. - Электрон.текстовые дан. ( 53,1Мб). - М. : ГЭОТАР - Медиа, 2017. - эл. опт.диск</li> <li>2. Адам физиологиясы. Динамикалық сызбалар атласы [Электронный ресурс] : оқулық / К. В. Судаков [ж.б.] ; қазақ тіл. ауд. М. Қ. Қанқожа. -</li> </ol>

ОҢТҮСТІК ҚАЗАҚСТАН <b>MEDISINA</b> <b>AKADEMIASY</b> «Оңтүстік Қазақстан медицина академиясы» АҚ		 SOUTH KAZAKHSTAN <b>MEDICAL</b> <b>ACADEMY</b> АО «Южно-Казахстанская медицинская академия»
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 18 of 22


	<p>Электрон.текстовые дан. (105Мб). - М. : ГЭОТАР - Медиа, 2017. - 464б. с.</p> <p>3. Қалыпты физиология [Электронный ресурс] : оқулық / қаз.тіл. ауд. Ф. А. Миндубаева ; ред. К. В. Судаков. - Электрон.текстовые дан. (1,42Мб). - М. : ГЭОТАР - Медиа, 2015. - 864 бет.эл. опт. диск</p> <p>4. Камкин, А. Г. Атлас по физиологии. В 2 т. Т. 1 [Электронный ресурс] : учеб.пособие / А. Г. Камкин, И. С. Киселева. - Электрон.текстовые дан. ( 58,4 Мб). - М. : ГЭОТАР - Медиа, 2010. - 408 с. эл. опт.диск</p> <p>5. Камкин, А. Г. Атлас по физиологии. В 2 т. Т. 2 [Электронный ресурс] : учеб.пособие / А. Г. Камкин, И. С. Киселева. - Электрон.текстовые дан. ( 58,7 Мб). - М. : ГЭОТАР - Медиа, 2012. - 448 с.</p> <p>Физиология пәнінен электронды оқу құралы [Электронный ресурс] : медициналық колледждерге арналған оқу құралы / ҚР денсаулық сақтау министрлігі; Техникалық және кәсіптік білім; Медициналық мамандықтарға арналған. - Электрон. текстовые дан. ( 22,3 Мб). - Түркістан : ОҚО, 2012. - эл. опт. диск</p>
Electronic books:	<p><u>Electronic database:</u>          UKMA repository <a href="http://lib.ukma.kz/repository/">http://lib.ukma.kz/repository/</a>          Republican interuniversity electronic library  <a href="http://rmebrk.kz/">http://rmebrk.kz/</a>          Student advisor <a href="http://www.studmedlib.ru/">http://www.studmedlib.ru/</a>          Open University of Kazakhstan <a href="https://openu.kz/kz">https://openu.kz/kz</a>          Law (access in the reference and information sector)  <a href="https://zan.kz/ru">https://zan.kz/ru</a>          Paragraph  <a href="https://online.zakon.kz/Medicine/">https://online.zakon.kz/Medicine/</a> Scientific online library  <a href="https://elibrary.ru/">https://elibrary.ru/</a>          Open Library <a href="https://kitap.kz/">https:// kitap.kz/</a>          Thomson Reuters «Web of Science»  <a href="http://www.webofknowledge.com">www.webofknowledge.com</a>          Scopus <a href="https://www.scopus.com/">https://www.scopus.com/</a> Sciencedirect  <a href="http://www.sciencedirect.com/">http://www.sciencedirect.com/</a></p>
Laboratory physical resources	
Special programs	
Gradebook (online gradebook)	Platonus

<p>ONȚŪSTIK QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ</p>		<p>SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»</p>
<p>Department of Normal and Pathological Physiology Syllabus, GM, 2<sup>nd</sup> year</p>		<p>044-53/11 P. 19 of 22</p>


<p><b>Bibliography</b></p>	<p><b>In Russian:</b> <b>main:</b></p> <ol style="list-style-type: none"> <li>1. Косицкий Г.И. Физиология 1-2-3 том.- Эверо, 2014.</li> <li>2. Нұрмұхамбетұлы, Ә. Орысша- қазақша медициналық (физиологиялық) сөздік = Русско-казахский медицинский - Алматы : Эверо, 2014.</li> <li>3. Физиология человека: учебник / Л. З. Тель [и др.]. - Рек. Респ. центром инновационных технологий мед.образования и науки М-ва здравоохранения РК. - Алматы : Эверо, 2012. -600 с.</li> </ol> <p><b>supplementary:</b></p> <ol style="list-style-type: none"> <li>1. Физиология человека: учебник / под ред. В. М. Покровского, Г. Ф. Коротько. - 2-е изд., перераб. и доп ; Рек. Департаментом образовательных мед.учр. и кадровой политики М-ва здравоохранения РФ. - М. : Медицина, 2007. - 656 с.</li> <li>2. Миндубаева, Ф. А. Руководство к практическим занятиям по физиологии: учеб.- методическое пособие / Ф. А. Миндубаева, А. М. Евневич, Т. И. Крекешева. - Алматы : Эверо, 2012. - 194 с.</li> <li>3. Ситуационные задачи по курсу нормальной физиологии: учебно-методическое пособие / В. К. Касымбеков [и др.]. - Алматы : Эверо, 2016. - 144 с.</li> <li>4. Нормальная физиология: Практикум : учеб. пособие / под ред. К. В. Судакова. - М. : МИА, 2008.</li> </ol> <p><b>In the Kazakh:</b> <b>main:</b></p> <ol style="list-style-type: none"> <li>1. Бабский Е.Б., Бабская Н.Е. Адамфизиологиясы: Оқулық 1-2-3 том.-Эверо, 2015.</li> <li>2. Қалыпты физиология: оқулық / РФ БҒМ ; ред. басқ. К. В. Судаков; қаз. тіліне ауд. және жауаптыред. Ф. А. Миндубаева. - ; И. М. Сеченоватындағы Бірінші М</li> </ol> <ol style="list-style-type: none"> <li>1. Қасымбеков, В. Қ. Қалыпты физиология бойынша ахуалдық есептер жиынтығы: оқу-әдістемелік құрал / В. Қ. Қасымбеков, Р. Е. Нұргалиева, А. Т. Қалдыбаева. - Алматы : Эверо, 2016. - 152 бет. с.</li> <li>2. Қасымбеков, В. Қ. Физиологиялық зерттеу әдістері: оқу- әдістемелік құрал / В. Қ. Қасымбеков, Ф. К. Балмағанбетова, А. Т. Қалдыбаева. - Алматы : Эверо, 2016. - 176 бет. с.</li> <li>3. Сәтбаева, Х. Қ. Адам физиологиясы: оқулық / Х. Қ. Сәтбаева, А. А. Өтепбергенов, Ж. Б. Нілдібаева. - 2-ші бас. түзетілген және толықтырылған. - Алматы : Эверо, 2010. - 664бет. с.</li> <li>4. Сайдахметова, А. С. Физиологиядан тәжірибелік сабақтарға нұсқаулар: оқу құралы / А. С. Сайдахметова, С. О. Рахыжанова. - Караганды : АҚНҰР, 2016. - 260 бет. с.</li> </ol>
----------------------------	---

<p>ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ</p>		<p>SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»</p>
<p>Department of Normal and Pathological Physiology</p>	<p>044-53/11</p>	
<p>Syllabus, GM, 2<sup>nd</sup> year</p>	<p>P. 20 of 22</p>	


	<p>5. Қалыпты физиология: оқулық / РФ БҒМ ; ред. басқ. К. В. Судаков; қаз. тіліне ауд. және жауаптыред. Ф. А. Миндубаева. - ; И. М. Сеченоватындағы Бірінші МММУ ұсынған. - М. : ГЭОТАР - Медиа, 2015. - 864 бет. + эл. опт. диск</p> <p>6. Нұрмұхамбетұлы, Ә. Орысша- қазақша медициналық (физиологиялық) сөздік = Русско-казахский медицинский (физиологический) словарь : словарь / Ә. Нұрмұхамбетұлы. - Алматы : Эверо, 2014. - 903 с.</p> <p>6. Миндубаева, Ф. А. Физиология пәнінен практикалық сабақтарға арналған нұсқау: оқу-әдістемелік құрал / Ф. А. Миндубаева, А. Х. Абушахманова, А. Х. Шандаулов. - Алматы : Эверо, 2012. - 186 бет. с.</p> <p><b>In English:</b> <b>main:</b> Hall, John E. Guyton and Hall textbook of medical physiology: textbook / John E. Hall. - 13th ed. - Philadelphia : Elsevier, 2016. - 1145 p. Babsky, Y. B. Humanphysiology. Volum 1.: textbook / Y. B. Babsky, Y. B. Babsky. - Almaty : "Evero" , 2017. - 308 p Babsky, Y. B. Human physiology. Volum 2.: textbook / Y. B. Babsky, U. B. Babsky. - Almaty : "Evero" , 2017. - 296 p. Babsky, Y. B. Human physiology. Volum 1.: textbook / Y. B. Babsky, Y. B. Babsky. - Almaty : "Evero" , 2017. - 308 5. TannerThies, Roger Physiology- An Illustrated Review: textbook / Roger TannerThies. - New York : Stuttgart, 2013. - 329 p <b>supplementary:</b> Smagulov , N. K.: textbook / N. K. Smagulov , N. M. Kharissova ; Ministry of public health of Republic of Kasakhstan; Karaganda state medical university. - Almaty : LLP "Evero", 2013.</p>
--	---

<p style="text-align: center;">             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ           </p>			<p style="text-align: center;">             SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»           </p>
Department of Normal and Pathological Physiology			044-53/11
Syllabus, GM, 2 <sup>nd</sup> year			P. 21 of 22

<b>12.</b>	<b>Discipline Policy</b>
<p>Requirements for a student, attendance, behavior, grading policies, penalties, motivation, etc.</p> <p><b>A student must:</b></p> <ul style="list-style-type: none"> <li>• keep medical ethics and deontology;</li> <li>• do not smoke at the academy;</li> <li>• keep the department clean;</li> <li>• not to spoil furniture in classrooms;</li> <li>• take good care of textbooks;</li> <li>• keep the appearance relevant to a medical university student;</li> <li>• comply with safety regulations;</li> <li>• during quarantine, wear medical masks and observe the sanitary and epidemiological regime;</li> <li>• do not miss classes without a valid reason;</li> <li>• to fix missed classes due to a valid reason on time, but only with the dean's office permission and at a time specified by the teacher;</li> <li>• not be late for classes;</li> <li>• to have the necessary documentation in the classroom: a syllabus, methodological recommendations for classes, lectures, a notebook and a textbook;</li> <li>• prepare conscientiously for classes;</li> <li>• be active during classes;</li> <li>• do not engage in extraneous activities during class: do not talk, do not smoke, do not chew chewing gum, do not eat, do not use the phone, do not listen to music, do not read newspapers and magazines, do not prepare for another discipline classes;</li> <li>• keep quiet and order during breaks;</li> <li>• on time submit SIW (in electronic form) according to a schedule, with checking of written works for plagiarism.</li> </ul> <p><b>Requirements of the department to students in the process of distant learning:</b></p> <ul style="list-style-type: none"> <li>• to perform individual and group assignments in the 'Assignment' module of the Platonus according to the schedule of lectures, practical classes and SIW;</li> <li>• to participate online at lectures, practical and SIW classes through Zoom and Webex platforms;</li> <li>• to be aware of the deadlines for assignments in the 'Assignment' module of the Platonus.</li> </ul> <p><b>In the case of violations of the rules, the following penalties are applied to students:</b></p> <ul style="list-style-type: none"> <li>• for each missing lecture without a valid reason, 1 point is deducted from a student's midterm examination mark (penalty scores);</li> <li>• Per 1 absence at SIW class without a valid reason, 2 points are deducted from the average of SIW marks;</li> <li>• in the case of late submission of SIW without a valid reason (later than the scheduled week), the SIW is not accepted;</li> <li>• in case of a single violation of the discipline policy, a warning is given to the student;</li> <li>• in case of systematic violations of discipline policy, information on student behaviour is delivered to the dean's office of the faculty;</li> <li>• in case of distant learning, if a student submits a task to Platonus later than scheduled terms or doesn't submit it at all for no valid reason, the student gets '0' in the e-gradebook for according week.</li> </ul> <p><b>Criteria for not admitting to the final exam:</b></p> <p>A student who has received an unsatisfactory mark for one of the types of controls (midterm control 1, midterm control 2, an average mark of current control) is not allowed to take the final exam.</p>	
<b>13.</b>	<b>Academic policy based on the moral and ethical values of the academy</b>
	<a href="http://www.ukma.kz">www.ukma.kz</a> Regulations and Rules of SKMA. Academic policy.
	II.4 Student Code of Honor
	II.10. Organization of the educational process
	II.12. Grading Policy

<p style="text-align: center;">             ОҢТҮСТІК ҚАЗАҚСТАН  <b>MEDISINA</b>  <b>AKADEMIASY</b>              «Оңтүстік Қазақстан медицина академиясы» АҚ           </p>		<p style="text-align: center;">               SOUTH KAZAKHSTAN  <b>MEDICAL</b>  <b>ACADEMY</b>              АО «Южно-Казахстанская медицинская академия»           </p>
Department of Normal and Pathological Physiology		044-53/11
Syllabus, GM, 2 <sup>nd</sup> year		P. 22 of 22

	<p>Final control. Students who have fully mastered the discipline program and who have gained an admission rating are allowed to the exam.</p> <p>The final score (FC) is calculated automatically based on the average scores of the current control (CC: practical classes, SIWT, penalty scores), midterm examinations (avMEs, penalty scores) and the final examination (FE):</p> <p><b>avMEs</b> = (ME1 + ME2) / 2</p> <p><b>avCC</b> = mean of current grades taking into account the average score for practical classes, SIWT and penalty points.</p> <p><b>Access rating (60%)</b> = 0.2*avMEs + 0.4*avCC</p> <p><b>Final grade (100%)</b> = 0.2*avMEs + 0.4*avCC + 0.4*FE</p> <p>or</p> <p><b>Final grade (100%)</b> = 0.6*Access Rating + 0.4*FE</p> <p>avME – average score of midterm examinations  avCC – average scores of the current control  FE – final examination  ME 1 – midterm examination 1  ME 2 – midterm examination 2</p>
--	---

<b>14. Approval and revision</b>			
Date of approval at the department: 06.05.2022	Protocol № 10a	Full name of the head of the department Zhakipbekova G.S	Signature 
Date of approval by CEP: 20.06.2022	Protocol № 10	Full name of the chairwoman of the CEP Dossybayeva G.N	Signature
Date of revision at the department	Protocol №	Full name of the head of the department Zhakipbekova G.S	Signature
Date of revision by CEP	Protocol №	Full name of the chairwoman of the CEP Dossybayeva G.N	Signature