MINISTRY OF EDUCATION AND SCIENCE OF THE KYRGYZ REPUBLIC

Osh STATE UNIVERSITY
INTERNATIONAL MEDICAL FACULTY

Department of Anatomy, Histology and Normal Physiology

«Approved» _____
at department meeting, protokol №__
from "__" _____2023
head of department Djoldubaev S.

«Agreed» _____
Chairman IMC Associate:
Bazieva A. M.
from "12" 09 2023

STUDENT TRAINING PROGRAM (SYLLABUS)

by discipline: "Normal Anatomy"
for full-time students studying in the direction of: "560001 - General Medicine" (GM)

Form of study: daytime
Total credits: 10, course – 1, semester – 1, 2.
Total labor intensity: 300 h., exactly: auditory hours – 150 h(lectures– 60 h, practical – 90 h.); IWS – 150h.

Quantity of final control works(FCW): modules– 4, exams– 1, 2 semesters.

Information about instructor: Tashimbetova Umut Kaparovna
Department, number of room: *«Anatomy, Histology and Normal Physiology», Morphological building. 203 room*
Contact Information: *work time - 8.00.-17.00, phone: 0773420179*
email: umut8181@mail.ru
Date: *2023-2024 y.*

Osh – 2023

1. OBJECTIVES OF THE DISCIPLINE

The purpose of studying normal anatomy is the student's acquisition of knowledge on the structure of the human body, the structure of organs and organ systems, their topography and development based on modern achievements in macro- and microscopic anatomy, as well as the formation of general professional medical competence in matters of the structural organization of the basic processes of the body's vital activity.

2. DISCIPLINE LEARNING RESULTS

Based on the results of the study of normal anatomy in combination with other disciplines, the student should have the following competencies (expected results):

LO1 - Able to use basic knowledge of the humanities, natural sciences, economic disciplines in professional work

LO6 - Able to apply basic knowledge in the field of preventive activities to solve professional problems.

LO7 - Able to apply basic knowledge in the field of diagnostic activities to solve professional problems

LO-11 - Able to apply basic knowledge in the field of research activities to solve professional problems

3. PREREQUISITES: To study this academic discipline, the following knowledge, abilities and skills are required, formed by the previous disciplines: - a course of general human anatomy within the educational standards of complete secondary education

Knowledge: the structure of the human body, individual systems and organs.

Skills: to correlate the structure of individual organs and systems with their function and in the system of a whole organism.

Skills: to determine the position of organs in the norm.

- a course of general biology within the educational standards of complete secondary education Knowledge: general biological laws, processes of development of organisms in the process of phylogenesis, the influence of exogenous and endogenous factors of the mother on ontogenesis.

Skills: to determine the position of a person in the system person - environment.

Skills: Find relationships between changing environmental conditions and possible changes in the human body. The main provisions of the discipline and its sections should be used in the future when studying the following fundamental and clinical discipline

4. POSTREQUISITES:

The main provisions of the discipline and its sections should be used in the future in the study of the following fundamental and clinical disciplines: histology, cytology, embryology; normal physiology, topographic anatomy and operative surgery, clinical disciplines.

5. **Discipline technological map** *(for example 1 semester)*

Total	Auditory classes	IWS	1-module (75 h., 30 p.)				2-module (75 h., 30 p.)				Final control work (40p.)				**Total points**
			Aud. Cl.		IWS	**1- midterm control work (MCW1)**	Aud.cl		IWS	2- midterm control work (MCW2)	Lecture	Practical classes	IWS	**Final control work (FCW)**	
			Lecture	Practical cl.			Lecture	Practical cl.							
150	75	75	14	23	38		16	22	37						
Points			30	30	30	**30 p.**	30	30	30	**30 p.**	40	40	40	**40 p**	

Type of control	**CCW** =(lec+prac+ +IWS)/3, **M**1=(CCW1+...+CCWN+ +MCW1)/(N+1)	**CCW**=(lec+prac+ +IWS)/3, **M**2=(CCW1+...+CCWN ++MCW1)/(N+1)	**FCW**=(lec+prac+ +IWS)/3, Exam=M1+M2+FCW	**100p**

NOTE: Aud. *– auditory,* ***CCW*** *– current control work,* ***MCW*** *– midterm control work,* ***M*** *– module,* ***IWS*** *– indivisual work of student,* ***FCW*** *– final control work.*

6. Discipline points accumulation card *(for example)*

	Characteristic	**Classroom and extracurricular work of students** (materials on the programs of lectures, practical classes and IWS)					
		Current control				**Midterm control (module)**	
		Check attendance and workbooks	**Description of the anatomical structure**	**Filling schemes in Latin transcription**	**Solving tests / situational tasks (15 options)**	**Theoretical part (testing) 5 variants**	**Practical skills (demonstration of anatomical structures)**
1.	Number of questions and tasks	In accordance with the guidelines	3	10	10 / 5	15	3
2.	Points	10	10		10	15	15
		30 points				30 points	
4.	**TOTAL for module**	**30 points** **CCW**= (lec+prac+IWS)/3, **M**1 = (CCW1+...+CCWN+**MCW**1)/(N+1)					

Calendar-thematic plan of lectures for students in the specialty 560001 - General Medicine (GM) (2nd semester , 2023-2024 year.)

№ week	№ Class	**Nameofsections, modules, topics**	**№ week**	
Work plan	1.	Introduction to neurology . Functional anatomy of spinal cord.	2 ч.	16 часов
	2.	Functional anatomy of brainstem.	4 ч.	
	3.	Diencephalon: structure, topography of gray and white matter, III ventricle.	2 ч.	
	4.	Functional anatomy of the subcortical nuclei, olfactory lobe, limbic system	2 ч	
	5.	Functional anatomy of the telencephalon. Localization of functions (centers) in the cortex of the cerebral hemispheres.	4 ч.	
	6.	Ascending and descending tracts of brain and spinal cord	2 ч.	
		Module #1: «Central Nervous System "	***2 ч.***	
По учебному плану	1.	General anatomy and development of arterial system. Heart	4 ч.	14 часов
	2.	General anatomy and development of venoussystem.Fetal blood circulation	2 ч.	
	3.	General anatomy and development of lymphatic system	2 ч.	
	4.	General anatomy and development of cranial nerves	2 ч.	
	5.	General anatomy and development of spinal nerves	2 ч	

	6.	AutonomicNervoussystem. Autonomic innervation of internal organs.	2 ч.	
		Module #2: «Vascular and peripheral nervous system »	***2 ч.***	

Calendar-thematic plan of practical
for students in the specialty 560001 - General Medicine (GM)
(2nd semester , 2023-2024 year.)

№ week	№ Class	**Name of sections, modules, topics**	**№ week**
1st week	1.	General overview of the nervous system. Spinal cord: structure, topography of gray and white matter and its membranes.	2 ч.
2nd week	2	Base and midline section of the brain, its sections. The exit points of 12 pairs of cranial nerves from the brain and skull. Medulla oblongata:	2 ч.
3rd week	3	Cerebellum: Pons nuclei, connections with other parts of the brain.	2 ч.
4th week	4	Midbrain: structure, gray and white matter topography, cerebral aqueduct..	2 ч
	5	Rhomboid fossa. IV ventricle. Topography of the I-XII cranial nerves.	2 ч
5th week	6	Diencephalon: structure, topography of gray and white matter, III ventricle.	2 ч.
	7	Forebrain: grooves and sulci of the cerebral hemispheres. Localization of functions in the cerebral cortex.	2 ч
6th week	8	Fore brain: internal structure of the hemispheres .Lateral ventricles. Meningeal layers of the brain. Pathways for the outflow of cerebrospinal fluid.	2 ч.
	9	Ascending, Descending tracts of spinal cord and brain.	2 ч.
7th week	10	Sense organs, their classification. The organ of vision.	2 ч.
8th week	11	The structure of the eyeball.. The vestibular cochlear organ, its parts. The structure of the outer, middle and inner ear. Skin and its derivatives	2 ч.
		1stMODule : «CENTRAL NERVOUS SYSTEM»	**2 ч.**
9th week	1.	Aortic arch and its branches. Common, external and internal carotid arteries. Subclavianartery. Circle of Willis.	2 ч.
	2.	Thoracic aorta. Axillary artery. Arteries of the upper limb..	2 ч.
10th week	3.	Abdominal aorta. Common, external and internal iliac arteries. Lowerlimbarteries	2 ч
	4.	VCS and VCI	2 ч
11th week	5.	Portal vein. Venous anastomoses. Fetal circulation.	2 ч.
	6.	The lymphatic system: trunks and tributaries. Regional lymph nodes. Right lymphatic duct	2 ч.
12th week	7.	Peripheral nervous system: cranial nerves (sensory and motor, areas of innervation.	2 ч.
	8.	Cranial nerves (mixed), areas of innervation.	2 ч
13th week	9.	Spinal nerves: formation, topography, branches, areas of innervation. Spinal nerves: Cervical, Brachial, plexuses	2 ч.
14th week	10.	Spinal nerves: Lumbar, Sacral plexuses	2 ч
15th week	11.	Sympathathic part of the autonomic nervous system. Innervation of internal organs.	2 ч.
16th week	12.	Parasympathathic part of the autonomic nervous system. Innervation of internal organs.	1ч
		2-Я МОДУЛЬ: «VASCULAR AND PERIPHERAL NERVOUS SYSTEM»	**2 ч.**
Total hours	Lectures		30hours
	Practical class		45hours
	Module		4 hours