MINISTRY OF HEALTH OF UKRAINE KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Human Anatomy

Academic year 2021-2022

SYLLABUS OF THE COURSE

"Human Anatomy" (name of educational component)

Norma	ative or selec	ctive edu	ıcational	component	normative	
The	format	of	the	educational	component	full-time
				(full-time; m	ixed; remote)	
Field	of knowled	ge		22 "Health c (code and name of the	are"erield of knowledge)	
Specia (code ar	alty nd name of the sp	ecialty)	222 "Me	edicine", the sec	cond (master's) level	
	ntional and icine"	-	ssional	program (edu	acational and scientific program)	
Cours	e	firs	t			
The syllab	us of the di	scipline	was co	nsidered	Approved by the methodical comm	ission of
at a meetin	ng of the De	partme	nt of Hu	ıman	KhNMU on general pre-professiona	al training
Anatomy					Protocol from	
Protocol fr	rom				"31" August 2021 № 1	
" <u></u> 30 <u></u> "	August 202	21 № _	13_		Chairman of the methodical commi	ssion of
Head of D	epartment				KhNMU	
B		0.11			general pre-professional training	
	(surname a			•	prof. Vovk O.Yu. (s	signature)
(3.5)	(202210110)				(surname and initials)	-0)

SILABUS DEVELOPERS:

Head of the Department of Human Anatomy, Doctor of Medicine, Professor O.Yu. Vovk,

Associate Professor of Human Anatomy, Ph.D. V.B. Ikramov,

Associate Professor of Human Anatomy, Ph.D. O.O. Shevtsov

Data on the teacher who teaches the discipline

Last name, first name, patronymic	Shevtsov Olexander Olexandrovich
Scientific degree	Candidate of Medical Sciences
Academic status	Associate Professor
Position	Associate Professor of Human Anatomy
Contact phone	+380509690459
Corporate mail	oo.shevtsov@knmu.edu.ua
Timetable	According to the schedule for the I-II semester

Professional interests, links to the teacher's profile (on the website of the university, department, in the Moodle system, etc.: http://distance.knmu.edu.ua/user/profile.php?id=10550

Contact phone and E-mail of the department: tel.(057) 700-36-26,, khnmu_anatomy@ukr.net

Eye consultations: schedule and venue according to the schedule of the department.

Online consultations: schedule and venue by prior arrangement with the teacher.

Location: classes are held at: 12 Nezalezhnosti Avenue

INTRODUCTION

The program of study of the discipline "Human Anatomy" is compiled in accordance with the Educational and Professional Program "Medicine" and the draft Standard of Higher Education of Ukraine (hereinafter - the Standard), the second (master's) level, field of knowledge 22 "Health", specialty 222 "Medicine".

Description of the discipline (abstract).

The study of the discipline "Human Anatomy" for physicians is a classic model of university course adapted to the needs of medicine, which involves the acquisition of each knowledge seeker in the world of natural science ideas about the structure and function of the human body as a whole, the ability to use acquired knowledge in other basic sciences medicine, and in the practice of the doctor.

The subjectstudy of the discipline "human anatomy": the science of shape, structure, origin and development of organs, systems and the human body as a whole.

Interdisciplinary links:

Human anatomy as a discipline:

- a) is based on the study of medical biology, histology, cytology and embryology, biophysics, Latin, ethics, philosophy, ecology and integrates with these disciplines;
- b) lays the foundations for the study of normal and pathological physiology, pathological anatomy, operative surgery and topographic anatomy, deontology, propaedeutics of clinical disciplines and the formation of skills to apply knowledge of human anatomy in the further study of all clinical disciplines and future professional activities.

Link to the discipline page in MOODLE

http://31.128.79.157:8083/course/view.php?id=496

1. PURPOSE AND TASKS OF STUDYING THE COURSE

1.1. The purpose of studying the disciplineis the acquisition by each applicant of knowledge of anatomy in the world of natural science ideas about the structure and function of the human body as a whole, the ability to use the acquired knowledge in further study of other basic sciences of medicine, and in the practice of medicine.

The purpose of studying human anatomy - the ultimate goals are set on the basis of OPP training of a doctor in the specialty in accordance with the block of its content module (natural science

training) and is the basis for building the content of the discipline. The description of goals is formulated through skills in the form of target tasks (actions). On the basis of the ultimate goals for each module or content module, specific goals are formulated in the form of certain skills (actions), target tasks that ensure the achievement of the ultimate goal of the discipline.

The ultimate goals of the discipline:

- > Analyze information about the structure of the human body, its constituent systems, organs and tissues;
- > To determine the topographic and anatomical relationships of human organs and systems;
- > To interpret the patterns of prenatal and early postnatal development of human organs, variants of organ variability, malformations;
- > Interpret sexual, age and individual features of the structure of the human body;
- > To predict the interdependence and unity of structures and functions of human organs and their variability under the influence of environmental factors;
- > Determine the impact of social conditions and work on the development and structure of the human body;
- > Demonstrate mastery morally-ethical principles of attitude to a living person and his body as an object of anatomical and clinical research.
 - 1.2. The main tasks of studying the discipline "Human anatomy" as a science is a systematic approach to the description of the shape, structure of organs, position (topography) of parts and organs of the body in unity with the functions performed, taking into account age, gender and individual characteristics.
 - **1.3. Competences and learning outcomes,** the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education, formulated in terms of learning outcomes in the OPP and Standard).
 - **1.3.1.** The study of the discipline provides the acquisition of competencies by applicants:
 - integrated:ability to solve typical and complex specialized tasks and practical problems in the process of training for future professional activity in the field of health care, or in the process of training, which involves research, innovation and is characterized by complexity and uncertainty of conditions and requirements.

- general:

- 1. Ability to apply knowledge in practical situations. profession
- 2. Knowledge and understanding of the subject area and understanding of the profession. situations.
- 3. Ability to exercise self-regulation, lead a healthy lifestyle, ability to adapt and act in a new situation.
- 4. Ability to choose a communication strategy; ability to work in a team; skills between personal

interaction.

- 5. Ability to communicate in the native language both orally and in writing; ability to communicate in a second language.
- 6. Skills in the use of information and communication technologies.
- 7. Ability to abstract thinking, analysis and synthesis, the ability to learn and be modernly trained.
- 8. Ability to evaluate and ensure the quality of work performed.
- 9. Definiteness and persistence in terms of tasks and responsibilities.
- 10. Ability to act in a socially responsible and social consciousness.
- 11. The desire to preserve the environment.
- **special** (professional, subject): the ability to evaluate the results of laboratory and instrumental research

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- **1.3.2.** The study of the discipline ensures the acquisition by applicants of the following program learning outcomes:
- 1. Acquisition by a person of general and special fundamental and professionally-oriented knowledge, skills, abilities, competencies necessary for the performance of typical professional tasks related to his / her activity in the medical field in the relevant position.
- 2. Knowledge of human psychophysiological features, human health, health support, disease prevention, human treatment, public health.
- 3. Evaluation of survey results, physical examination, laboratory and instrumental research data.
- 4. Formation of a specialist with appropriate personal qualities, who adheres to the code of ethics of the doctor.
 - **1.3.3.** The study of the discipline provides the acquisition of the following social skills (Soft skills):
 - communication;
 - literate written and oral language;
 - ability to speak in public;
 - analytical mind;
 - ability to see and solve a problem;
 - good memory;
 - creativity;
 - result orientation;
 - persistence;
 - stress resistance;

- willingness to perform routine work;
- ability to make decisions;
- responsibility.

2. INFORMATION SCOPE OF THE COURSE

2.1. Description of the discipline

	Field of knowledge,	Characteristics	of the discipline	
Name of indicators	specialty, educational and full-time education qualification level		education	
Number of loans - 7.5	Branch of knowledge 22 - "Health care" Not		rmative	
		Year of p	reparation:	
	Specialty:	1	1	
the total number of	222 - "Medicine"	Semester		
hours - 225		1	2	
		Lectures		
		10	10	
	Educational degree: the	Practical training		
Hours for full-time study:	second (master's) level	40	80	
classroom -140 (62%)		Individual work		
of independent work of the				
applicant - 85 (38%)		40	45	
	EPP: "Medicine"	type of control		
		Current control	Test.	

2.2.1. LECTURES

No	LECTURE TOPICS	Number hours	Type of lectures
1.	Human anatomy - as a science. World, Ukrainian and Kharkiv anatomical schools. Functional osteology. The doctrine of the connection of bones. Functional arthrology.	2	Lecture- presentation
2.	Functional myology.	2	Lecture- presentation
3.	Functional anatomy of the digestive system. Peritoneum.	2	Lecture- presentation
4.	Functional anatomy of the respiratory system. Pleura. Mediastinum. General anatomy of the endocrine and immune systems.	2	Lecture- presentation
5.	Functional anatomy of the cardiovascular system. Fetal circulation. Functional anatomy of the lymphatic system.	2	Lecture- presentation

6.	General and functional anatomy of the urinary organs. General and functional anatomy of the male and female genital systems. Perineum.	2	Lecture- presentation
7.	The doctrine of the nervous system. Functional anatomy of the spinal cord. Obolon.	2	Lecture- presentation
8.	Functional anatomy of the brain. Obolon.	2	Lecture- presentation
9.	Leading pathways of the brain and spinal cord.	2	Lecture- presentation
10.	Cranial nerves and anatomy of the senses	2	Lecture- presentation
	Total	20	

2.2.2. SEMINAR CLASSES

Does not have

2.2.3. PRACTICAL TRAINING

$N_{\underline{0}}$		Numb	Teaching methods	Forms of control
3.П.	Name topics	er of		
		hours		
1.	Organization of the educational process at the		1 '	Oral questioning,
	Department of Human Anatomy. Subject and			written questioning,
	tasks of anatomy. Research methods in anatomy.		anatomical preparations,	· · · · · · · · · · · · · · · · · · ·
	The main modern directions of anatomy development. Anatomical nomenclature. Axes		presentation, use of corpse material; work at	tasks, individual tasks,
	and planes of the human body. Bone as an organ.		the virtual anatomical	austracts, reports.
	Classification of bones. Test and situational tasks		table Anatomage Table;	
	on the topic.		work with the synthetic	
	•	4	corpse SynDaver;	
			preparation for the	
			licensed integrated exam	
			KROK-1, solving	
			situational problems,	
			assessment of age, gender and individual	
			characteristics of human	
			organs.	
2.	General characteristics of the spine. General signs		- // - // -	- // - // -
	of vertebrae. Features of the structure of the			
	cervical, thoracic, lumbar vertebrae, sacrum,			
	coccyx. The spinal column as a whole. Vertebral	4		
	malformations. Classification of edges. The			
	structure of the ribs and sternum. Chest as a			
	whole. Test and situational tasks on the topic.			

3.	Upper limb girdle bones. Bones of the free part of the upper limb. Lower limb girdle bones. The pelvis as a whole (holes, diameters, conjugates, etc.). Bones of the free part of the lower limb. Test and situational tasks on the topic.	4	- // - // -	- // - // -
4.	Skull anatomy I. Frontal, parietal, occipital, wedge-shaped, temporal bones. Temporal bone canals. The concept of the skull (Neurocranium). Test and situational tasks on the topic.	4	- // - // -	- // - // -
5.	Anatomy of the skull II. Lattice bone, upper and lower jaws, ploughshare, chin, palatine, lacrimal, sublingual bones. The concept of the facial skull (Viscerocranium). Eye socket, bony nasal cavity, paranasal sinuses, bony palate. Test and situational tasks on the topic.	4	- // - // -	- // - // -
6.	Anatomy of the skull III. External and internal bases of the skull. Anterior, middle and posterior cranial fossae and their combinations. Temporal, subtemporal, pterygopalatine fossa. Age and sex features of the skull structure. Variants and anomalies of skull bone development. Test and situational tasks on the topic.	4	- // - // -	- // - // -
7.	The doctrine of the connection of bones. Classification of bone joints. General arthrology. The concept of the joint. Classifications of joints. Mandatory and auxiliary elements of joints. Biomechanics of joints. Development and age features of bone joints. Test and situational tasks on the topic.	4	- // - // -	- // - // -
8.	Connection of skull bones. Age features of connection of skull bones: temples, their types, structure, terms of ossification. Atlanto-occipital joint. Connection of the spine. Chest connection. Chest belt connection. Pelvic girdle connection. Test and situational tasks on the topic.	4	- // - // -	- // - // -
9.	The connection of the bones of the free part of the upper limb. Connection of bones of a free part of the lower extremity. Test and situational tasks on the topic.	4	- // - // -	- // - // -
10.	Final lesson: "Osteology. The doctrine of the connection of bones.	4	Poll	Solving a package of tasks on the content of educational material. Assessment of the development of practical skills
11.	Introduction to myology. Muscle as an organ. Muscle classifications. Auxiliary muscle apparatus. Muscles and fascia of the chest. Diaphragm. Test and situational tasks on the topic.	4	- // - // -	- // - // -

12.	Muscles and fascia of the back. Test and situational tasks on the topic.	4	- // - // -	- // - // -
13.	Abdominal muscles and fascia. White line of the abdomen. Topography of the abdomen. The vagina of the rectus abdominis. Inguinal canal. Test and situational tasks on the topic.	4	- // - // -	- // - // -
14.	Muscles of the head. Fascia and topography of the head. Test and situational tasks on the topic.	4	- // - // -	- // - // -
15.	Neck muscles. Fascia and topography of the neck (classification of fascia, triangles of the neck, parts of the neck, interscapular space). Test and situational tasks on the topic.	4	- // - // -	- // - // -
16.	Muscles of the upper extremity. Fascia and topography of the upper limb (axillary and ulnar fossa, canals, furrows). Test and situational tasks on the topic.	4	- // - // -	- // - // -
17.	Muscles of the lower extremity. Fascia and topography of the lower limb (femoral triangle, popliteal fossa, canals). Test and situational tasks on the topic.	4	- // - // -	- // - // -
18.	Final lesson "Myology".	4	Poll	Solving a package of tasks on the content of educational material. Assessment of the development of practical skills
19.	Anatomy of the oral cavity and its derivatives: tongue, palate, teeth, pharynx, salivary glands. Anatomy of the pharynx. Test and situational tasks on the topic.	4	- // - // -	- // - // -
20.	Anatomy of the digestive tract (esophagus, stomach, small and large intestine). Test and		- // - // -	- // - // -
	situational tasks on the topic.	4		,, ,,
21.		4	- // - // -	- // - // -
21.	situational tasks on the topic. Anatomy of large digestive glands (liver and pancreas). Anatomy of the gallbladder and bile		- // - // - - // - // -	
	situational tasks on the topic. Anatomy of large digestive glands (liver and pancreas). Anatomy of the gallbladder and bile ducts. Test and situational tasks on the topic. Areas of the anterior abdominal wall. Projection of abdominal organs on areas of the abdominal wall. Anatomy of the peritoneum and its derivatives. Test and situational tasks on the	4		- // - // -
22.	situational tasks on the topic. Anatomy of large digestive glands (liver and pancreas). Anatomy of the gallbladder and bile ducts. Test and situational tasks on the topic. Areas of the anterior abdominal wall. Projection of abdominal organs on areas of the abdominal wall. Anatomy of the peritoneum and its derivatives. Test and situational tasks on the topic. Anatomy of the external nose, nasal cavity,	4	- // - // -	- // - // -

		1		
26.	Anatomy of the male genitalia. Male perineum		- // - // -	- // - // -
	(boundaries, layered structure). Test and	4		
	situational tasks on the topic.			
27.	Anatomy of the breast. Anatomy of female		- // - // -	- // - // -
	genitals. Female perineum (borders, layered	4		
	structure). Test and situational tasks on the topic.			
28.	Anatomy of the heart: Topography of the heart.		- // - // -	- // - // -
	General structure of the heart. Large and small			
	circles of blood circulation, structure of a wall of			
	heart, anatomy of chambers of heart, valves,	4		
	blood supply of heart, nerves of heart. Leading	4		
	system of the heart. Core (structure, cavity,			
	contents, sinuses). Fetal circulation. Test and			
	situational tasks on the topic.			
29.	Anatomy of the endocrine system: thyroid,		- // - // -	- // - // -
	parathyroid, adrenal glands. Endocrine part of the			
	pancreas, pituitary gland, pineal gland. Anatomy			
	of organs and formations of the immune system:	4		
	thoracic gland - thymus, bone marrow, spleen,	4		
	tonsils. Lymphatic system. General plan of the			
	structure. The main lymphatic ducts. Test and			
	situational tasks on the topic.			
30.	Final lesson "Splanchnology. Anatomy of the		Poll. passing computer	
	endocrine and immune systems. Lymphatic		testing on the basis of	tasks on the content of
	system ". Computer testing on the basis of	4	STEP-1	educational material.
	STEP-I (on the material of I and II semesters).	' '		Assessment of the
				development of
				practical skills

2.2.4. LABORATORY CLASSES

Does not have

2.2.5. INDIVIDUAL WORK

		Numb	Teaching methods	Forms of control
$N_{\underline{0}}$	Topic	er of		
		hours		
1.	Describe the main stages of anatomy:		Demonstration on anatomical	PC, software in
	history of anatomy development in		preparations, presentation, use of	accordance with KTP.
	ancient times;		corpse material; work with a	
	history of anatomy development in the		virtual anatomical table	
	Renaissance;	7	Anatomage Table;	
	history of development of Ukrainian	/	work with the synthetic corpse	
	anatomical schools up to the XX century;		SynDaver.	
	history of development of Ukrainian			
	anatomical schools in the XX - XXI			
	centuries.			

2.	Master the skill - apply planes and axes to describe	7	- // - // -	- // - // -
	anatomical objects.	,		
3.	Master the basics of anthropometric description of the skull		- // - // -	- // - // -
	 describe the sexual and individual features of the structure of the skull; describe the age features of the structure of the skull 	7		
4.	Master the ability to draw - to		- // - // -	- // - // -
	demonstrate the structure of the bones of the vertebrae, ribs, sternum, the structure of the bones of the upper and lower	7		
	extremities			
5.	Master the ability to draw patterns of		- // - // -	- // - // -
	connection of bones: skull, vertebrae,	7		
	ribs, upper and lower extremities.			
6.	Master the skill	_	- // - // -	- // - // -
	- to demonstrate on preparations	7		
	connections between bones			11 11
7.	Master the ability to demonstrate on		- // - // -	- // - // -
	drugs:			
	torso muscles;	7		
	heads;			
	neck; upper and lower extremities.			
8.	Preparing a review of the scientific		- // - // -	- // - // -
0.	literature or conducting research		- // - // -	-// -// -
	(optional)			
	Skull development in ontogenesis.			
	Variants and anomalies of skull			
	development.			
	Development of bone joints in phylogeny	7		
	and ontogenesis.			
	Variants and anomalies of development			
	of the upper and lower			
	limbs.			
	Variants and anomalies of skeletal muscle			
	development.			
9.	Master the ability to demonstrate the		- // - // -	- // - // -
	structure of drugs:	_		
	organs of the digestive system;	7		
	esophagus, stomach, liver, pancreas,			
1.0	small and large intestine		,, ,,	11 11
10.	Master the skill	7	- // - // -	- // - // -
	- draw the course of the peritoneum in the	7		
1.1	abdominal cavity and pelvic cavity.		11 11	11 11
11.	Master the basics of anthropometric		- // - // -	- // - // -
	description the external structure of the respiratory	3		
	- the external structure of the respiratory			
	system.			

12.	Master the skill		- // - // -	- // - // -
	- read radiographs of the digestive and	6		
	respiratory systems.			
13.	Master the ability to demonstrate the		- // - // -	- // - // -
	structure of the heart, walls of the heart,	6		
	chambers, blood vessels, leading	0		
	pathways of the heart on drugs			
	Together	85		

3. EVALUATION CRITERIA

3.1. Evaluation of the success of education of students is carried out on the basis of the current "Instructions for evaluating the educational activities of students of KhNMU"

Evaluation of current learning activities (IPA)

When assessing the mastery of each subject of the discipline (PND) and the final lesson (PZ), the applicant is graded according to the traditional 4-point system: "excellent", "good", "satisfactory" and "unsatisfactory".

Annex 4 to item 3.2.2 of the Instruction, approved by order of KhNMU from 21.08.2021 № 181

Table 4

Criteria for evaluating the results of educational activities students in disciplines

Rating	Evaluation criteria
"Perfectly"	The student shows special creative abilities, is able to acquire knowledge independently, without the help of the teacher finds and processes the necessary information, is able to use the acquired knowledge and skills for decision-making in unusual situations, convincingly argues answers, independently reveals own talents and inclinations.
"Very good"	The student is fluent in the studied amount of material, applies it in practice, freely solves exercises and problems in standard situations, independently corrects mistakes, the number of which is insignificant
"Fine"	The student is able to compare, summarize, systematize information under the guidance of the teacher; as a whole to apply it independently in practice; control their own activities; to correct mistakes, among which there are significant ones, to choose arguments to confirm opinions

"Satisfactorily"	The student reproduces a significant part of the theoretical material, shows knowledge and understanding of the basic principles; with the help of the teacher can analyze the educational material, correct mistakes, among which there are a significant number of significant ones
"Enough"	The student has the study material at a level higher than the initial, a significant part of it is reproduced at the reproductive level
"Unsatisfactorily" with the possibility of re-assembling the semester control	The student has the material at the level of individual fragments that make up a small part of the study material
"Unsatisfactorily" with mandatory re- examination of the credit	The student has the material at the level of elementary recognition and reproduction of individual facts, elements, objects
In partic	ular, criteria for assessing practical skills in disciplines
"Perfectly"	The student corresponds to a high (creative) level of competence: the student shows special creative abilities, without mistakes independently demonstrates the implementation of practical skills and has systematic theoretical knowledge (knows the methods of practical skills, indications and contraindications, possible complications, etc.) and has the ability to accept solutions in non-standard situations.
"Fine"	The student independently demonstrates the implementation of practical skills, admitting some inaccuracies, which he quickly corrects, has theoretical knowledge (knows the method of performing practical skills, indications and contraindications, possible complications, etc.).
"Satisfactorily"	The student demonstrates the implementation of practical skills, making some mistakes that can be corrected by their teacher, has satisfactory theoretical knowledge (knows the basic principles of methods of practical skills, indications and contraindications, possible complications, etc.).
"Unsatisfactorily"	The student can not independently demonstrate practical skills (performs them, making gross errors), does not have a sufficient level of theoretical knowledge (does not know the methods of performing practical skills, indications and contraindications, possible complications, etc.).

Final score for (IPA) and final classes (SO) is defined as the arithmetic mean of traditional grades for each lesson and software, rounded to 2 decimal places and listed in a multi-point scale according to Tables 1.

Appendix 1 to item 2.6 of the Instruction, approved by order of KhNMU from 21.08.2021 № 181

 ${\bf Table\ 1}$ Recalculation of the average score for the current control in a multi-point scale

4-point	120-point		4-point	120-point scale
scale	scale		scale	1
5	120		3.91-3.94	94
4.95-4.99	119		3.87-3.9	93
4.91-4.94	118		3.83- 3.86	92
4.87-4.9	117		3.79- 3.82	91
4.83-4.86	116		3.74-3.78	90
4.79-4.82	115		3.7- 3.73	89
4.75-4.78	114		3.66- 3.69	88
4.7-4.74	113		3.62- 3.65	87
4.66-4.69	112		3.58-3.61	86
4.62-4.65	111		3.54- 3.57	85
4.58-4.61	110		3.49- 3.53	84
4.54-4.57	109		3.45-3.48	83
4.5-4.53	108		3.41-3.44	82
4.45-4.49	107		3.37-3.4	81
4.41-4.44	106		3.33- 3.36	80
4.37-4.4	105		3.29-3.32	79
4.33-4.36	104		3.25-3.28	78
4.29-4.32	103		3.21-3.24	77
4.25- 4.28	102		3.18-3.2	76
4.2- 4.24	101		3.15- 3.17	75
4.16- 4.19	100		3.13- 3.14	74
4.12- 4.15	99		3.1- 3.12	73
4.08- 4.11	98		3.07- 3.09	72
4.04- 4.07	97		3.04-3.06	71
3.99-4.03	96		3.0-3.03	70
3.95- 3.98	95		Less 3	Not enough

Evaluation of the applicant's independent work

The material for independent work of applicants, which is provided in the topic of practical training simultaneously with the classroom work, is evaluated during the current control.

Assessment of topics that are submitted only for independent work and are not included in the topics of classroom classes, are controlled during the final lesson.

Evaluation of the individual work of the applicant

The list of individual tasks was approved at the meeting of the department (participation with reports in student conferences, profile Olympiads, preparation of analytical reviews with presentations with determination of the number of points for their performance, which can be added as incentives) (not more than 10).

Points for individual tasks are awarded to the applicant only once as a commission (commission - head of the department, head teacher, group teacher) only if they are successfully completed and defended. In no case may the total amount of points for IPA exceed 120 points.

Final lesson

Final lesson (*hereinafter - the software*) must be conducted in accordance with the working curriculum of the discipline (hereinafter - RNPD) during the semester on schedule, during classes.

The software is received by the teacher of the academic group or the exchange of related groups between teachers is carried out.

The department provided the following materials for preparation for the software on the information stand:

- list of theoretical questions (including questions on independent work);
- list of practical skills;
- criteria for assessing the knowledge and skills of applicants;
- schedule of completion of missed classes by applicants during the semester.

Recommendations for the final lesson:

- 1. Solving a package of tasks on the content of educational material, which includes the following:
- 2. Assessment of the development of practical skills (assessment criteria "performed" or "failed");
- 3. During the assessment of the applicant's knowledge on theoretical issues included in this final lesson (SO), the applicant is given a traditional assessment, which is converted into a multi-point scale together with the assessments of the IPA (Table 1).

3.2. LIST OF PRACTICAL SKILLS

222- "medicine" - masters

"Anatomy of the musculoskeletal system"

1.	Vertebra	14.	- Furrow of the vertebral	25.	- Lower rib fossa
2.	- The body of the vertebra	artery		26.	- Rib fossa of the transverse
3.	- Vertebral arch	15.	"The back arc of Atlanta."	process	
4.	- Upper vertebral notch	16.	- The lateral mass of the	27.	Lumbar vertebrae
5.	- Lower vertebral notch	atlas		28.	- Additional appendix
6.	- Vertebral foramen	17.	- Axial vertebra tooth	29.	- Nipple-like process
7.	- Spiny process	18.	- Sleepy tubercle (VI	30.	Sacrum
8.	- Transverse process	cervical	vertebra)	31.	- The base of the sacrum
9.	- Upper articular process	19.	- Transverse hole	32.	- Ear-shaped surface of the
10.	- Lower articular process	20.	- Anterior hump	sacrum	
11.	Cervical vertebrae	21.	- Rear hump	33.	- The top of the sacrum
12.	- The front arch of Atlanta	22.	- Furrow of the spinal nerv	<i>i</i> 84.	- Mountainousness of the
13.	- The pit of the tooth	23.	Thoracic vertebrae	sacrum	
		24.	- Upper rib fossa	35.	- Pelvic surface

36.	- Transverse lines	80.	- Nasal spine	125.	- Small wing of a wedge-
37.	- Anterior sacral openings		- Lattice cutting	shaped l	
38.	- Dorsal surface	82.	- Frontal sinus	126.	- Large wing of a wedge-
39.	- Posterior sacral openings		Parietal bone	shaped l	
40.	- Middle sacral crest	84.	- Occipital edge	127.	- The cerebral surface of the
41.	- Medial sacral ridge	85.	- Scaly edge	great wi	
42.	- Lateral sacral crest	86.	- Boom edge	128.	- Temporal surface of the
43.	- The sacral canal	87.	- Frontal edge	large wi	-
44.	- Cruciate ligament	88.	- Frontal angle	129.	- Temporal surface of the
45.	-Edge	89.	- Occipital angle	large wi	-
46.	- Rib head	90.	- Wedge-shaped angle	130.	- The maxillary surface of
47.	- Articular surface of the r		- Nipple angle	the large	<u> </u>
head		92.	- Parietal opening	131.	- Orbital surface of the large
48.	- The crest of the rib head		- Furrow of the upper arrow		
49.	- Neck ribs	sinus	r	132.	- The upper orbital fissure
50.	- The body of the rib	94.	- Parietal hump	133.	- Visual canal
51.	- Bump ribs	95.	- Upper temporal line	134.	- Round hole
52.	- Rib angle	96.	Occipital bone	135.	- Oval hole
53.	- Furrowed ribs	97.	- Big hole	136.	- Spiny hole
54.	- Bump of the anterior lade		- Main part	137.	- Pterygoid process
	(on the first rib)	99.	- Pharyngeal tubercle	138.	- Side plate
55.	- Furrow of the subclavian	100.	- Slope	139.	- Medium plate
	on the first rib)	101.	-Side part	140.	- Wing-shaped channel
56.	- Furrow of the subclavian		- Occipital condyle	141.	- Pterygoid fossa
	n the first rib)	103.	- Outgrowth canal	142.	- Wing-shaped notch
57. [`]	- Hilness of the anterior	104.	- Outgrowth fossa	143.	Temporal
	muscle	105.	- Yoke notch	144.	- Stony part of the temporal
58.	Sternum	106.	- Jugular process	bone	7 1
59.	- Stern handle	107.		145.	- The upper edge of the
60.	- Jugular notch (sternum)	108.	- Occipital scales	rocky pa	
61.	- Key clipping	109.	- External occipital	146.	Furrow of the upper stony
62.	- The body of the sternum	protrusi	on	sinus	
63.	- Rib cuts	110.	- Upper neck line	147.	- The back edge of the stony
64.	- Sword-shaped process	111.	- Lower neck line	part	•
65.	- Angle of the sternum	112.	- Internal occipital protrus	i d4 8.	Furrow of the lower stony
66.	Frontal bone	113.	- Cross-shaped increase	sinus	•
67.	- Frontal scales	114.	- Furrow of the transverse	149.	- The leading edge of the
68.	- Frontal hump	sinus		stony pa	ırt
69.	- Eyebrow arch	115.	- Furrow of the sigmoid	150.	Furrow of the lower stony
70.	- Overweight	sinus		sinus	
71.	- Furrow of the upp	o e 116.	- Furrow of the transverse	151.	- The front surface of the
arrow s	sinus	sinus		stony pa	nrt
72.	- Frontal crest	117.	Wedge-shaped bone	152.	The roof of the tympanic
73.	- Blind hole	118.	- The body of the wedge-	cavity	
74.	- Supraorbital edge	shaped	bone	153.	Triple indentation
75.	- Supraorbital	119.	- Turkish saddle	154.	Solution of the canal of
forame	n	120.	- Pituitary fossa	the grea	t stony nerve
76.	- Chin appendage	121.	Bump saddle	155.	Furrow of a large stony
77.	- Ocular fossa	122.	- Saddle back	nerve	
78.	The pit of the	123.	- Sleepy furrow	156.	Solution of the canal of
lacrima	al gland	124.	- Wedge-shaped sinus	the smal	ll stony nerve
79.	- Nose				

157.	Furrow of a small stor	nd 97.	- Temporal surface of the	235.	Nasal
nerve		-	the upper jaw	236.	Ploughshare
158.	- The back surface of the	198.	The hump of the upper	237.	Palate
stony pa	art	jaw	1 11	238.	- Perpendicular plate
159.	Internal ear canal	199.	Cell openings	239.	- Wedge-palatal notch
160.	Internal auditory canal	200.	- Nasal surface of the upper		- Pyramidal process
161.	Arc fossa	jaw	11	241.	- Horizontal plate
162.	- The lower surface of the		Tear furrow	242.	Chin bone
stony pa		202.	- Upper maxillary solution	1243.	- Side surface
163.	The jugular fossa	203.	- Frontal process of the	244.	- Temporal surface
164.	Acute process	upper ja	•	245.	- Orbital surface
165.	Awl-mammary hole	204.	- Chin process of the uppe	r246.	- Frontal process
166.	Rocky dimple	jaw		247.	- Temporal process
167.	External opening of the		- The palatine process of t	h 2 48.	- Chin-orbital foramen
carotid		upper ja	•	249.	- Chisel-frontal opening
168.	Internal opening of the		- Cell process	250.	- Chin-temporal opening
carotid		207.	- Dental cells	251.	Sublingual bone
169.	- Nipple (temporal bone)	208.	mandible	252.	- The body of the hyoid bone
170.	Furrow of the sigmoid		- The body of the lower ja	w253.	- Small horn
sinus	S	210.	- Cell part	254.	- The Great Horn
171.	Nipple-shaped notch	211.	- Cellular arch of the low	e 2 55.	The vault of the skull
172.	Nipple-shaped hole	jaw		256.	Temporal fossa
173.	- Drum part	212.	Dental cells	257.	- The walls of the temporal
174.	- The scaly part	213.	- The base of the lower jav	wfossa	•
175.	Chin appendage	214.	Chin protrusion of the		- Jaw arch
176.	Articular tubercle	lower ja	<u> </u>	259.	Temporal fossa
177.	Mandibular fossa	215.	Chin tubercle	260.	- The walls of the temporal
178.	` - External ear cana	1216.	Chin hole	fossa	1
179.	- External auditory canal	217.	Double ventral fossa of	f 261.	Wing-palate fossa
180.	Lattice bone	the lowe	er jaw	262.	- Walls of the
181.	- Perforated plate	218.	Maxillofacial line of th	epterygo	palatine fossa
182.	- Hole holes	lower ja		263.	Anterior cranial fossa
183.	- Perpendicular plate	219.	Sublingual fossa	264.	Middle cranial fossa
184.	- Lattice maze	220.	Submandibular fossa	265.	Posterior cranial fossa
185.	- Ocular fossa plate	221.	- Branch of the lower jaw	266.	Furrow of the upper arrow
186.	- Upper nasal conch	222.	- The angle of the lower ja		kull)
187.	- Middle nasal conch	223.	- Chewing hilly	267.	Furrow of the transverse
188.	Maxilla	224.	- Winged hilly	sinus (sl	kull)
189.	- The body of the upper ja	w225.	- Clipping of the lower ja	w268.	Furrow of the sigmoid sinus
190.	- Orbital surface	226.	- The condylar	(skull)	
191.	Suborbital sulcus of the	eprocess	of the mandible	269.	The outer base of the skull
upper ja	nw	227.	Head of the lower jaw	270.	- Torn hole (skull)
192.	Suborbital canal of the	228.	The neck of the lower j	a2√1.	- Jugular opening (skull)
upper ja	nw	229.	Pterygoid fossa of the	272.	- Carotid canal (skull)
193.	- Suborbital margin of the	mandib	e	273.	- Musculoskeletal canal
body of	the upper jaw	230.	- Coronal process	o(skull)	
194.	- Anterior surface of the	the man	-	274.	Bone palate
upper ja	nw	231.	- Hole of the lower	275.	- Large palatal canal
195.	Suborbital foramen of	t he w		276.	- Small palatal openings
upper ja	nw	232.	- Channel of the lower jaw	277.	- Cutter channel
196.	Nasal notch	233.	Lower nasal concha	278.	Eye socket
		234.	Tear bone	279.	- Orbital entrance

280.	- Supraorbital edge (skull)	329.	- Furrow of the radial ner	ve373.	- The metacarpal bones
281.	- Suborbital margin (skull		- The condyle of the	374.	- The base of the metacarpal
282.	- The walls of the orbit	humeru	•	bone	ran
283.	- Front lattice hole	331.	- The head of the humeru		- The body of the metacarpal
284.	- Rear lattice hole	332.	- Block of the humerus	bone	The cody of the incomental
285.	- Lower orbital fissure	333.	- Elbow fossa	376.	- The head of the metacarpal
286.	Bone nasal cavity	334.	- Coronary fossa	bone	The head of the metacarpur
287.	- The walls of the nasal bo		- Lateral appendix	377.	- Bones of the fingers of the
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288.	- Hoani	337.	- Medium epiphysis	378.	- Proximal phalanx
289.	- Upper nasal passage	338.	- Furrow of the ulnar ner		- Middle phalanx
290.	- Middle nasal passage	339.	Radius	380.	- The final phalanx
291.	- Lower nasal passage	340.	- The head of the radial	381.	Hip bone
292.	- Joint nasal passage	bone	- The field of the fadiar	382.	- Kulshova depression
293.	Shoulder	341.	- Joint circumfere		- The hole of the acetabulum
294.	- Rib surface	342.	- Articular fossa	384.	- Crescent surface of the
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297. 298.	- The axis of the scapula		- Hilly radial bone		
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299.	(acromion) -Supraspinatus fos				
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300.	- The middle edge	348.	Acute process of the rac		Club crest
301.	- Side edge	bone	- Acute process of the rac	392.	Upper anterior iliac spine
302.	- The upper edge	349.	- Cutting of the ulna	392. 393.	Lower anterior iliac
304.	- Beak-like process	3 4 <i>)</i> .	- Carpal joint surface	spine	Lower amerior mae
305.	- Cutting the scapula	350. 351.	Ulna	394.	Lower posterior iliac
306.	- Upper corner	351. 352.	- Elbow process	spine	Lower posterior mae
307.	- Lower corner	352. 353.	- Block clipping	395.	Upper posterior iliac
308.	- Side angle	353. 354.	- Coronal process	spine	Opper posterior mae
309.	Articular cavity	35 4 .	- Hilness of the ulna	396.	Outer lip
310.	- Supraarticular tubercle	356.	- Clipping of the radial b		Intermediate line
310.	- Subarticular tubercle	357.	- The body of the ulna	398.	Inner lip
311.	- The neck of the shoulde		- The surface of the body		- Club pit
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313.	Collarbone	359.	- The edges of the body o		- Ear-shaped surface
314.	- Sternal end	the ulna		402.	- Club hump
315.	- The body of the clavicle		- The head of the ulna	403.	Buttock
316.	- Over the shoulder end	361.	- Acute process of the ulr		- The body of the sciatic
317.	Humerus	362.	- Joint circumference	bone	The body of the sciatic
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319.	- Anatomical neck	364.	- Carpal bones	406.	- Buttock hump
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322.	- The crest of a large mou		- Triangular bone	409.	Pubis
323.	- The crest of a small mou		- Pea-shaped bone	410.	- The body of the pubic bone
324.	- Hilly furrow	369.	- Trapezoi		- The upper branch of the
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326.	- The body of the humeru		- Trapezoidal bone	412.	Pubic tubercle
327.	- Body surfaces	371.	- Head bone	413.	- Ileo-pubic increase
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thumb 751 Semi-tendon muscle holder	thumb	751.	- Semi-tendon muscle	holder	

789.	- Lower extensor muscle	830.	Parotid duct	872.	- The mucous membrane of
holder		831.	- Ziv		l intestine
790.	- Flexor muscle holder	832.	- Palate tongue	873.	- Circular folds of the small
791.	- Upper tibialis muscle	833.	- Palatine pharyng		
holder	rr	bracket		874.	- The duodenum
792.	- Lower tibialis muscle	834.	- The palatine tonsil	875.	- The upper part of the
holder		835.	- Almond fossa	duodenu	
793.	- Plantar aponeurosis	836.	Pharynx	876.	- Descending part of the
	1	837.	- Nasal part of the pharynx		
"Spl	anchnology. Central nervou		The vault of the pharynx		Large papilla of the
_	ystem and sense organs "	839.	- Pharyngeal tonsil	duodenu	
794.	Mouth	840.	- Pharyngeal opening of th	n & 78.	Small papilla of the
<i>795</i> .	Mouth	ear cana	al	duodenu	ım
<i>796</i> .	- Drooling of the mouth	841.	- Pipe roll	879.	- The horizontal part of the
797.	- Upper lip	842.	- Oral part of the pharynx	duodenu	ım
798.	- Lower lip	843.	- Laryngeal part of the	880.	- Ascending part of the
799.	- Corner of the company	pharynx		duodenu	ım
800.	- Cheek	844.	- Pharyngeal cavity	881.	- Duodenal flexion
801.	- Actually the oral cavity	845.	- The mucous membrane of	o ß 82.	
802.	- The palate	the pha	rynx	Empty	
803.	- Hard palate	846.	- Muscles of the pharynx	intestine	:
804.	- Soft palate	847.	Esophagus		
805.	- Clear	848.	- The neck	883.	- Ileum
806.	- Teeth	849.	- Chest	884.	Colon
807.	- Tooth crown	850.	- Abdominal part	885.	- The mucous membrane of
808.	- The neck of the tooth	851.	- Mucous membrane	the colo	n
809.	- The root of the tooth	852.	Stomach	886.	- Crescent folds of the colon
810.	- Cutters	853.	- The anterior wall of the	887.	- Protrusions of the colon
811.	- Fang	stomacl	1	888.	- Tapes of the colon
812.	- Small canines	854.	- The back wall of the	889.	- Serous membrane of the
813.	 Large canines 	stomacl	1	colon	
814.	- Language	855.	- Great curvature of the	890.	- Omental appendages of the
815.	- The body of the tongue	stomacl		colon	
816.	- The root of the	856.	- Small curvature of the	891.	- The cecum
tongue		stomacl		892.	Club hole
817.	- The back of the tongue	857.	- Cardiac opening	893.	Worm-shaped appendix
818.	"By the tongue."	858.	- Cardiac part of the stoma		- Colon
819.	- The tip of the tongue	859.	- The bottom of the stoma		- Ascending colon
820.	- The mucous membrane		- Cardiac cutting	896.	- Right bend of the colon
the ton	-	861.	- The body of the stomach		- Transverse colon
821.	Mushroom-shaped	862.	- The portal part of the	898.	- Left bend of the colon
	e of the tongue	stomach		899.	- Descending colon
822.	Grooved papillae of the		- Gate Cave	900.	- Sigmoid colon
tongue		864.	- Gateway channel	901.	- Rectum
823.	Leaf-shaped papillae o		- Goalkeeper muscle-swite		- Cross flexion
the ton	-	866.	- Gate opening	903.	- Ampoule of the rectum
824.	- Blind hole of the tongue		- The gastric mucosa	904.	- Waste channel
825.	- Tongue tonsil	868.	- Stomach folds	905.	- Waste columns
826.	- Oral glands	869.	- Gastric fields	906.	- Tracheal sinuses
827.	- Sublingual gland	870.	Small intestine	907.	- Retreat
828.	- Submandibular gland	871.	- Serous membrane of the		Liver The right lebe of the liver
829.	- Parotid gland	small in	nestine	909.	- The right lobe of the liver

010	I oft lobe of the liver	052	Livenhea	1002	The besis of seem contilers
910. 911.	Left lobe of the liverAperture surface	952. 953.	Liver bagPancreatic sac	1002. 1003.	The basis of scoop cartilageMuscular process of scoop
911. 912.	- The lower edge	955. 954.		cartilag	
912. 913.	- Internal surface	95 4 . 955.	Right mesenteric sinusLeft mesenteric sinus	1004.	- Vocal process of scoop
913. 914.	- Gallbladder fossa	955. 956.	- Left mesenteric smus - Left side channel	cartilag	-
91 4 . 915.	- Liver gate	950. 957.	- Right side channel	1005.	
915. 916.	- Furrow of a vena cava	957. 958.	- Upper iliac-appendix	cartilag	- The tip of the ladle
910. 917.	- The gap of the venous	959.	- Lower iliac-appendix	1006.	- Epiglottis
ligame	0 1	959. 960.	- Rectal-uterine cavity	1000.	- Ring-thyroid joint
918.	- Round ligament of the li		- Bladder-uterine depth	1007.	- Ring-triyroid joint
919.	- Slit of the round ligamen		- Rectal-bladder cavity	1008.	- Thyroid sublingual
of the	_	963.	- Middle umbilical fold	membra	-
920.	- Square lobe of the liver	964.	- Medium umbilical fold	1010.	- The middle annular-thyroid
921.	- The caudate lobe of the	965.	- Medial inguinal fossa	ligamer	•
liver	- The caudate lobe of the	966.	- Lateral umbilical fold	1011.	- Ring-tracheal ligament
922.	- Common hepatic duct	967.	- Lateral inguinal fossa	1011.	- The cavity of the larynx
923.	- Right hepatic duct	968.	Nose	1012.	- Entrance to the larynx
924.	- Left hepatic duct	969.	- The root of the nose	1013.	- Dorsion of the larynx
92 4 .	Gallbladder	970.	- Back of the nose	1014.	Dorsal fold
926.	- The bottom of the	971.	- The tip of the nose	1015.	Parietal slit
gallbla		972.	- Wings of the nose	1010.	- Loudspeaker
927.	- The body of the gallblad		Nasal cavity	1017.	Voice fold
928.	- The neck of the gallblad		- Nostrils	1010.	Ventricular larynx
929.	- Bladder duct	975.	- Hoani	1020.	Voice gap
930.	- Common bile duct	976.	- Nasal septum	1020.	Intercostal part of the
931.	Pancreas	977.	- Upper nasal conch	glottis	intercostar part of the
932.	- The head of the pancreas		- Middle nasal conch	1022.	Intercartilaginous part of
933.	- The body of the pancrea		- Lower nasal conch	the glot	
934.	- Body surfaces	980.	- Nasal dorsum	1023.	- Consonant cavity
935.	- The edges of the		- Upper nasal passage	1024.	- Mucous membrane
body	The eages of the	982.	- Middle nasal passage	1025.	- Elastic cone of the larynx
936.	- The tail of the pancreas	983.	- Lower nasal passage	1026.	- Voice
937.	Peritoneum	984.	- Joint nasal passage		nication
938.	- Mesentery of the small	985.	- The paranasal sinuses	1027.	- Square plate
intesti	•	986.	- Maxillary sinus	1028.	- Parietal ligament
939.	- The root of the mesenter		- Wedge-shaped sinus	1029.	- Muscles of the larynx
940.	- Mesentery of the transve	•	- Frontal sinus	1030.	Trachea
colon	,	989.	- Lattice cells	1031.	- The neck
941.	- Mesentery of the append	li 9 90.	- Mucous membrane	1032.	- Chest
942.	- Mesentery of the sigmoi		- Olfactory part	1033.	- Bifurcation of the trachea
colon	Ç	992.	- Respiratory part	1034.	- Tracheal cartilage
943.	- Big cap	993.	Larynx	1035.	- Annular (tracheal)
944.	- Little cap	994.	- Larynx (on the corpse)	ligamer	nts
945.	- Liver ligaments	995.	- Thyroid cartilage	1036.	- Membrane wall
946.	- Coronal ligament	996.	- The upper horn of the	1037.	Bronchi
947.	- Sickle ligament	thyroid	cartilage	1038.	- Right main bronchus
948.	- Right triangular	997.	- The lower horn of the	1039.	- Left main bronchus
connec	etion	thyroid	cartilage	1040.	- Bronch tree
949.	- Left triangular	998.	- Annular cartilage	1041.	Lungs
ligame	ent	999.	- Arc of the annular cartil	a g 6042.	- Right lung
950.	- Omental bag	1000.	- Plate of annular cartilage	e 1043.	- Left lung
951.	- Omental hole	1001.	- Ladle cartilage	1044.	- The basis of the lungs

1045	The 4-1 - 641 - 1-1	1007	W: 4	1126	Clara (air 14 1-6) -6 (1-
1045.	- The top of the lung	1087.	- Kidney pyramids	1136.	- Share (right, left) of the
1046.	- Rib surface and	1088.	- Renal papillae	prostate	The independent of the content of
1047.	- The spinal part of the rib		- Kidney columns	1137.	- The isthmus of the prostate
	of the lung	1090.	- Kidney bowl	1138.	Penis
1048.	- Medial wall surface	1091.	- Large renal calyx	1139.	- The root of the penis
1049.	- Aperture surface	1092.	- A small kidney cup	1140.	- The body of the penis
1050.	- Interparticle surface	1093.	Ureter (right, left)	1141.	- The back of the penis
1051.	- The front edge of the lun	_	- Abdominal part	1142.	- The head of the penis
1052.	- The tongue of the left lur	_	- Pelvic part	1143.	- Cavernous body of the
1053.	- Heart incision of the left		- Intrawall part	penis	
lung		1097.	Bladder	1144.	- Spongy body of the penis
1054.	- The tongue of the left lur	-	- The top of the bubble	1145.	Male urethra
1055.	- The lower edge of the lun	1 g 099.	- The body of the bubble	1146.	- The prostatic part
1056.	- Lung gate	1100.	- The bottom of the bubble	e1147.	- Membrane (intermediate)
1057.	- The root of the lung	1101.	- The neck of the bladder	part	
1058.	- Oblique slit of the lung	1102.	- The triangle of the bubble	el 148.	- Spongy part
1059.	- Horizontal slit of the righ	ı t l 103.	- The ureter's eye	1149.	- The inner eye of the urethra
lung		1104.	- The inner eye of the uretl	htá 50.	- The outer eye of the urethra
1060.	- Upper lobe of the lung	1105.	- Mucous membrane	1151.	Wicket
(left, rig	ht)	1106.	Testicle	1152.	Ovary
1061.	- The middle lobe of the	1107.	- Medium surface	1153.	- Free land
right lun	ıg	1108.	- Side surface	1154.	- The mesenteric edge
1062.	- Lower lobe of the lung	1109.	- Upper end (pole)	1155.	- Medium surface
(left, rig	9	1110.	- Lower end (pole)	1156.	- Side surface
1063.	Pleura	1111.	- The leading edge	1157.	- Pipe end
1064.	- Nutroscheva (pulmonary		- The back edge	1158.	- Uterine end
pleura	,	1113.	- Protein shell	1159.	- Protein shell
1065.	- Parietal pleura	1114.	- The mediastinum of the	1160.	- Ovarian cortex
1066.	- Pleural dome	testicle		1161.	- The cerebral substance of
1067.	- Rib part	1115.	- Testicular septa	the ovar	
1068.	- The mediastinal part	1116.	- Testicular particles	1162.	- Own ovarian ligament
1069.	- Aperture part	1117.	- Testicular parenchyma	1163.	Uterus
1070.	- Pleural cavity	1118.	Nadezhda	1164.	- Front surface
1071.	- Rib-diaphragm nook	1119.	- The head of the nipple	1165.	- Rear surface
1071.	- Rib-mediastinal nook	1120.	- The body of the little girl		- The body of the uterus
1072.	Kidney	1120.	- The tail of the little girl	1167.	- The bottom of the uterus
1073.	- Kidneys (right, left)	1121.	Family rope	1167.	- Cervix
1074.	- Side edge	1123.	- Components	1169.	- Supravaginal part of the
1075.	- The middle edge	1123.	The vas deferens	neck	- Supravaginal part of the
1070.	Kidney gate	1124.		1170.	Vaginal part of the neels
	Renal sinus		- Gate part		- Vaginal part of the neck
1078.	- Front surface	1126.	- Rope part	1171.	- The uterine cavity
1079.		1127.	- Inguinal part	1172.	- The eye of the uterus
1080.	- Rear surface	1128.	- Pelvic part	1173.	- Cervical canal
1081.	- Upper end (pole)	1129.	- Ampoule of the vas	1174.	- Wide uterine ligament
1082.	- Lower end (pole)	deferens		1175.	- Round uterine ligament
1083.	- Kidney fat capsule	1130.	Family blister	1176.	Uterine tube
1084.	- Fibrous capsule of the	1131.	Prostate	1177.	- Uterine part
kidney		1132.	- The basis of the prostate		- Isthmus of the fallopian
1085.	- Cortical substance of the	_		tube	
kidney	***	1133.	- The top of the prostate	1179.	- Ampoule of the fallopian
1086.	- Kidney substance of the		- Front surface	tube	-
kidney		1135.	- Rear surface	1180.	- Funnel of the fallopian tube

1181.	Totors of the fallopian to	u ll @16.	- Pulmonary trunk (on the	1254.	- Dorsum of the aorta
1182.	- Uterine eye of the fallop	ialmeart)	•	1255.	- Aortic opening
tube	-	1217.	- pulmonary artery (right,	1256.	- Aortic valve
1183.	- Abdominal opening of tl	ndeft)		1257.	- Right crescent valve
fallopia	in tube	1218.	- Right pulmonary veins (c	oih258.	- Left crescent valve
1184.	Vagina	the hear	rt)	1259.	- Rear crescent valve
1185.	- Vault of the vagina	1219.	- Left pulmonary veins	1260.	- Aortic sinuses
1186.	- The front wall of the	(heart)	-	1261.	- Anterior mammary muscle
vagina		1220.	Right atrium	1262.	- Posterior papillary muscle
1187.	- The back wall of the vag	gi nl 2 21.	"Right ear."	1263.	- Tendon strings
1188.	External female genitals	1222.	- Comb muscles	1264.	- Meaty translations
1189.	- Pubic elevation	1223.	- The opening of the super	i b2 65.	Ventricular septum
1190.	- Big shy lip	vena ca	va	1266.	Endocardium
1191.	- Shameful slit	1224.	- The opening of the inferi	dr267.	Myocardium
1192.	- Little shy lip	vena ca	va	1268.	Epicardium
1193.	- Dorsum of the vagina	1225.	- The opening of the	1269.	Pericardium (core)
1194.	 Vaginal opening 	coronar	y sinus	1270.	- Absolute transverse sinus
1195.	- The clitoris	1226.	Left atrium	1271.	- Absolutely slanted hair
1196.	Female urethra	1227.	- Left ear	1272.	Right coronary artery of
1197.	Perineum	1228.	- Comb muscles	the hear	rt
1198.	- Buttock-vaginal fossa	1229.	- Open the pulmonary veir	n§ 273.	- Posterior interventricular
1199.	- Bulb-spongy muscle	1230.	Atrial septum	branch	
1200.	- Buttock-cavernous musc	el e 231.	- Oval hole	1274.	Left coronary artery of the
1201.	 Superficial transverse 	1232.	Right ventricle	heart	
	of the perineum	1233.	- Right atrioventricular	1275.	- Anterior interventricular
1202.	- Deep transverse muscle	oforamer	1	branch	
the peri		1234.	- Right atrioventricular val		- Oginal branch
1203.	- The external muscle is a		- Front sash	1277.	Coronary sinus
circuit l		1236.	- Rear sash	1278.	- Large cardiac vein
1204.	Heart	1237.	- Partition sash	1279.	- Middle heart vein
1205.	- The basis of the heart	1238.	- Arterial cone	1280.	- Small heart vein
1206.	- The top of the heart	1239.	- The opening of the	1281.	
1207.	- Thoracic-rib surface of t	_	-	1282.	Thyroid gland
heart		1240.	- Pulmonary trunk valve	1283.	- The share of the thyroid
1208.	- Diaphragmatic surface of		- Right crescent valve	gland	
the hear		1242.	- Left crescent valve	1284.	- Isthmus of the thyroid
1209.	- Pulmonary surface (righ		- Front crescent valve	gland	
left)		1244.	- Anterior mammary musc		Adrenal gland (right, left)
1210.	- Crown furrow	1245.	- Posterior papillary muscl		Pituitary
1211.	- Anterior interventricular		- Septal papillary muscle	1287.	Cone-shaped gland
sulcus		1247.	- Tendon strings	1288.	The bone marrow
1212.	- Posterior interventricula		- Meaty translations	1289.	Thoracic gland (thymus)
sulcus		1249.	Left ventricle of the heart		Spleen
1213.	- Aorta (on the heart)	1250.	- Left atrioventricular	1291.	- The gate of the spleen
1214.	- Upper vena cava (on the			1292.	Palate tonsils
heart)		1251.	- Left atrioventricular valv	d 293.	Worm-shaped appendix
1215.	- Lower vena cava (on the		Front sash		
heart)		1253.	- Rear sash		

3.3. Test tasks for independent work

Topics of abstracts

- Topic 1. Andreas Vesalius and the beginning of scientific anatomy
- **Topic 2.** Leonardo da Vinci a great painter, one of the founders of plastic anatomy
- **Topic 3.** Stages of embryogenesis. Embryonic leaves the development of tissues and organs.
- 1. Development of the human embryo
- 2. Histogenesis
- 3. Organogenesis

Topic 4. Physiological curves of the spine

The structure of the spine and changes in the spine in scoliosis

Topic 5 Determining the type of posture depending on the severity of the curves of the spine Types of posture with increasing and decreasing curvature of the spine

Topic 6.

- 1. The structure of the bone
- 3. Age features of the periosteum

Topic 7. Study of the features of skeletal bones in the age aspect.

Features of skeletal bones in children, adults and the elderly

Topic 8. Structures that strengthen the joint and limit its movements

- 1. Auxiliary apparatus of the joint
- 2. The purpose of the joint ligament

Topic 9. Blood supply and innervation of torso muscles

- 1. Blood supply to the muscles of the torso
- 2. Innervation of the muscles of the torso

Topic 10. Muscles are antagonists and muscles are synergists

- 1. Muscles antagonists
- 2. Muscles synergists

Topic 11. Abdominal press and its functional significance.

- 1. The diaphragm of the human body
- 2. The walls of the abdominal press
- 3. Functional purpose of the abdominal press

Topic 12. The structure of the teeth

- 1. Features of deciduous teeth and the time of their development
- 2. The formula of permanent teeth.
- 3. Features of incisors, canines, molars. The turn of their appearance.
- 4. Prevention

Topic 13. Spleen, its location, external and internal structure.

- 1. The structure and function of the spleen
- 2. The role of the spleen in blood circulation

3.4. Individual tasks

Individual training and research (UDRS) or research (NDRS) work of applicants (optional) involves:

- preparation of a review of scientific literature (abstract);
- preparation of illustrative material on these topics (multimedia presentation, a set of tables, diagrams, figures, etc.);
 - production of educational and museum preparations, models;

3.5. Other incentives

- conducting research within the student research group of the department;
- participation in the scientific state budget of the department;
- participation in anatomical olympiads, etc.

3.6. Rules for appealing the assessment

The appeal is assessed in accordance with the provision "On the appeal of the results of the final control of students of the Kharkiv National Medical University", the order of 30.09.2020. №252.

http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=1226%3A2 013-03-25-12-07-55&catid=4%3A2011-05-04-07-20-12&Itemid= 19 & lang = uk

4. DISCIPLINE POLICY

In order to successfully complete the relevant course, it is necessary to regularly attend practical classes; to have theoretical preparation for practical classes according to the subject; not to be late and not to miss classes; perform all necessary tasks and work in each lesson; be able to work with a partner or in a group; contact the curators of the course on various issues on the subject of classes and receive it when you need it.

Applicants can discuss different tasks, but their performance is strictly individual. It is not allowed to write off, use various software, tips, use a mobile phone, tablet or other electronic gadgets during classes for purposes other than the educational process. Applicants are not allowed to be late for practical classes.

Visiting patients during hospitalization is possible provided that applicants have appropriate clothing, a health book with a diphtheria vaccination note, the results of a measles immune test (or a vaccination mark), or other infectious diseases according to the current epidemic situation.

Applicants with special needs can meet with the teacher or warn him before the start of classes, at the request of the applicant, this can be done by the head of the group. If you have any questions, please contact the teacher.

Applicants are encouraged to participate in research and conferences on this topic.

All KNMU applicants are protected by the Regulations on the Prevention, Prevention and Settlement of Cases Related to Sexual Harassment and Discrimination at Kharkiv National Medical University, designed to define an effective mechanism for resolving conflict situations related to discrimination and sexual harassment. This Regulation is developed on the basis of the following normative legal acts of Ukraine: the Constitution of Ukraine; Law of Ukraine "On Education"; Law of Ukraine "On Higher Education"; Law of Ukraine "On Principles of Preventing and Combating Discrimination in Ukraine"; Law of Ukraine "On Ensuring Equal Rights and Opportunities for Women and Men"; Convention for the Protection of Human Rights and Fundamental Freedoms; Convention for the Suppression of Discrimination in Education; Convention on the Elimination of All Forms of Discrimination against Women; General Recommendation № 25 to Article 4, paragraph 1, of the Convention on the Elimination of All Forms of Discrimination against Women; General Comment № 16 (2005) "Equal rights for men and women to enjoy economic, social and cultural rights" (Article 3 of the International Covenant on Economic, Social and Cultural Rights; UN Committee on Economic, Social and Cultural Rights); in the spirit of international mutual understanding, cooperation and peace and education in the spirit of respect for human rights and fundamental freedoms (UNESCO), the Concept of the State Social Program for Equal Rights and Opportunities for Women and Men until 2021. Kharkiv National Medical University provides education and work that is free from discrimination, sexual harassment, intimidation or exploitation. The University recognizes the importance of confidentiality. All persons responsible for the implementation of this policy (staff of deans' offices, faculties, institutes and the Center for Gender Education, members of the student government and ethics committee, vice-rector for research and teaching) are confidential about those who report or accuse of discrimination. or sexual harassment (except where the law requires disclosure and / or when disclosure by the University is necessary to protect the safety of others).

KhNMU creates a space of equal opportunities, free from discrimination of any national, racial or ethnic origin, sex, age, disability, religion, sexual orientation, gender, or marital status. All rights, privileges, programs and activities granted to applicants or staff of the University apply to all without exception, provided they are properly qualified. The anti-discrimination policy and the policy of counteracting sexual harassment of KhNMU are confirmed by the Code of Corporate Ethics and the Charter of KhNMU.

5. ACADEMIC INTEGRITY

<u>The Department of Human Anatomy maintains zero tolerance for plagiarism</u>. Applicants are expected to constantly raise their awareness of academic writing. The first lessons will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

6. RECOMMENDED BOOKS

- 1. Human anatomy: textbook. way. for students. higher honey. textbook institutions of the IV level of accreditation / VG Cherkasov, S. Yu. Kravchuk; Nat. honey. Univ. O.O. Bogomolets, Bukovynian state. honey. un-t. Vinnytsia: New book, 2011.
- 2. Anatomy of a child (with the basics of embryology and developmental defects): educational and methodical manual for students of higher medical (pharmaceutical) educational institutions / II Bobryk, VS Shkolnikov, SD Maksimenko, Yu. Y. Guminsky. Luhansk: Virtual Reality, 2012.
- 3. AS Golovatsky, VG Cherkasov, MR Human anatomy: in 3 volumes 2015, Vinnytsia. New Book
- 4. Gaivoronsky IV, Nichiporuk Sh.N. Anatomy of the digestive system: Textbook. Allowance for honey. University. СПб: Элби, 2007.
- 5. Netter Frank H. (ed.) Atlas of Human Anatomy:7th edition. Elsevier, 2018. 791 p.
- 6. Atlas of Human Anatomy, 6th Edition Enhanced International Edition. Netter Frank H. Elsevier health sciences division, 2015
- 7. Sinelnikov RD, Sinelnikov Ya.R., Sinelnikov A.Ya. Atlas of human anatomy: Textbook. allowance: In 4 vols. Vol. 2. 7th ed., reworked. M .: RIA "New Wave": Publisher Umerenkov, 2007. 248 p.

Supporting literature:

- 1. Human anatomy: a textbook in 2 volumes. / Ed. M.R. Sapina. Volume 1: GEOTAR-Media. 2012.- 456 p.
- 2. Human anatomy: a textbook in 2 volumes. / Ed. M.R. Sapina. Volume 2: GEOTAR-Media. 2012. 528 p.
- 3. Atlas of human anatomy. Publisher: Ripol-Classic. 2012. 576 p.
- 4. Bilich GL, Kryzhanovsky VA Human anatomy: Russian-Latin atlas Publisher: Exmo. 2012. 704 p.
- 5. Bilich GL Popular medical encyclopedia. Publisher: Veche. 2012.- 400 p.
- 6. Bleshchunova EN Workshop on human morphology: Textbook. Kharkiv, 2013. 74 p.
- 7. Boyanovich Yu. V., Balakirev NP Human anatomy. Atlas. Publisher: Phoenix. Series :: Medicine. 2011. 736 p.
- 8. Budanova OL Human anatomy. Lecture notes. Phoenix Publishing House. 2007. 285 p.
- 9. Grigorenko VG Theory and methods of PV of the disabled / Sermeev BV Odessa, 1991. 98 p.
- 10. Goncharov NI, Krayushkin AI. Splanchnology (in tables). Volgograd, 2000.
- 11. Sapin MR, Nikityuk DB, Shvetsov EV Atlas of normal human anatomy. Textbook. MedPress.2009.

7. INFORMATION RESOURCES

 $\underline{http://31.128.79.157:8083/course/view.php?id=\!496}$