

EUROPEAN MEDICAL UNIVERSITY

“APPROVED”

Vice-rector of EMU,
MD, PhD, DrMedSc, Professor

_____Herman TITOV
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SYLLABUS OF THE EDUCATIONAL DISCIPLINE

«Human anatomy»

Cycle of Higher Education:	second cycle of higher education (Master's degree)
Field of Study:	22 «Healthcare»
Specialty	221 Dentistry
Educational qualification	Master of Dentistry
Professional qualification	doctor
Educational program of EPP	EPP «Dentistry» 2023
Department	Department of Fundamental Disciplines
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Compilers of the syllabus	Teacher Tamara YEVTUSHENKO

1. Status and structure of the discipline

Discipline status	Mandatory
Discipline code in EPP/place of discipline in EPP	EC 7, professional training discipline
Course/semester	1 course (1-2 semester)
Course volume (total number of hours/ number of ECTS credits)	270 hours /9 ECTS credits
Number of Chapter :	2
Number of content sections	8
Distribution by types of training and hours of study	Lectures 10 hours Practical classes 147 hours Independent work 113 hours
Language of instruction	English
Form of education	Full-time
Type of final control	Exam

2. Short summary of the discipline

Human anatomy is an academic discipline that provides an understanding of the structure of the human body, all its organs and systems. It studies the human body in connection with its function, development and environment.

Prerequisites. Human anatomy as an academic discipline is based on the study of medical biology, histology, cytology and embryology, biophysics, Latin by applicants and is integrated with these disciplines. It lays the foundation for the study of normal physiology, propaedeutics of clinical disciplines by applicants and the formation of skills to apply knowledge of human anatomy in the process of further study of all clinical disciplines and in future professional activities

The purpose of the course and its significance for professional activities. The purpose of teaching the academic discipline "Human Anatomy" is to ensure that students acquire the greatest number of practical skills in dissection, independent study of the structure, mutual arrangement of numerous organs and parts of the human body.

Postrequisites: The academic discipline "Human Anatomy" lays the foundation for students to study normal and pathological physiology, pathological anatomy, clinical anatomy and operative surgery, deontology, propaedeutics of clinical disciplines (propaedeutics of therapeutic dentistry, propaedeutics of surgical dentistry; propaedeutics of pediatric therapeutic dentistry; propaedeutics of orthopedic dentistry; propaedeutics of pediatric surgical dentistry; propaedeutics of internal medicine) and the formation of skills to apply knowledge of human anatomy in the process of further study of all clinical disciplines (therapeutic dentistry; surgical dentistry; orthopedic dentistry; orthodontics, etc.) and in future professional activities.

3. The task of studying the discipline

- analyze information about the structure of the human body, the systems that make it up, organs and tissues;
- determine the topographical 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, developmental defects;
- interpret gender, age and individual characteristics of the structure of the human body;
- predict the interdependence and unity of the structures and functions of human organs, their variability under the influence of environmental factors;
- determine the influence of social conditions and work on the development and structure of the human body;
- demonstrate mastery of moral and ethical principles of attitude towards a living person and his body as an object of anatomical and clinical research.

4. Competencies and learning outcomes

Mastering the discipline ensures that applicants acquire the following competencies:

1 integral competence: the ability to solve complex tasks and problems in the field of healthcare in the specialty "Dentistry" in professional activities or in the process of study, which involves conducting research and/or implementing innovations and is characterized by uncertainty of conditions and requirements;

General competencies (GC): by codes GC 1, GC 2, GC 3, GC 6, GC 7, GC 9, GC 10.

Code	Характеристика загальної компетентності
GC 1	Ability to think abstractly, analyze and synthesize. Ability to learn and develop.
GC 2	Knowledge and understanding of the subject area and understanding of the multi-level nature of professional activity.
GC 3	Ability to apply professional knowledge and practical skills in medical practice.
GC 6	Skills in using information and communication technologies.
GC 7	Ability to search, process and analyze information from various sources.
GC 9	Ability to identify, pose and solve problems.
GC 10	Ability to be critical and self-critical.

Special (professional) competencies according to codes SC 2, SC 5, SC 13.

Code	Characteristics of special competence
SC 2	Ability to interpret the results of laboratory and instrumental studies.
SC 5	Ability to design the process of providing medical care: determine approaches, plans, types and principles of treatment of diseases of organs and tissues of the oral cavity and maxillofacial region.
SC 13	Ability to assess the impact of the environment on the health of the population (individual, family, population).

Program learning outcomes (PLO) correspond to the codes PLO 2, PLO 3, PLO 4.

Code	Integrative learning outcomes
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PLO 2	To collect information about the patient's general condition and the condition of the maxillofacial organs, to assess the patient's psychomotor and physical development. Based on the comprehensive diagnosis and the results of additional laboratory and instrumental studies, to evaluate information regarding the diagnosis (according to list 5).
PLO 3	To prescribe and analyze additional (mandatory and optional) examination methods (laboratory, radiological, functional and/or instrumental) according to list 5, patients with diseases of the organs and tissues of the oral cavity and maxillofacial region for differential diagnosis of diseases (according to list 2).
PLO 4	Determine the final clinical diagnosis in compliance with relevant ethical and legal norms, by making a reasoned decision and logical analysis of the obtained subjective and objective data of clinical, additional examination, and differential diagnostics under the supervision of the head physician in a medical institution (according to list 2.1).

5. Course Content

Lecture Topics

No	Topic	Number of hours
Chapter 1 . Musculoskeletal system. Splanchnology		
1	Introduction to anatomy. Methods of anatomical research. History of anatomy. Introduction to osteology. Stages of bone development. Development of branchial arches. Derivatives of branchial arches. Development of the skull in ontogenesis. Anomalies of skull development. Anatomy and anomalies of facial development.	2
2	General syndesmology. Anatomical and biomechanical classification of bone joints.	2
3	Introduction to myology. Development of the muscular system. Developmental anomalies. Special myology. Topography of the neck, trunk and extremities.	2
4	Introduction to neurology. Structural and functional characteristics of the nervous system. Development of the central nervous system. Morpho-functional characteristics of the brain regions. Conductive pathways of the central nervous system.	2
5	Поняття про аналізатори. Морфо-функціональна характеристика органів чуття: зору, слуху, рівноваги, смаку та шкіри. Провідні шляхи аналізаторів.	2
Total		10

Topics of seminar classes (not provided).

Practical topics according to chapters

No	Topic	Number of hours
Chapter 1: Musculoskeletal system.		
Content section No. 1. Osteology and craniology.		
1	Anatomical techniques. Terminology. Axes and planes. Concepts of organs, apparatuses, systems. General features of the structure of the vertebrae	2
2	Cervical, thoracic, lumbar vertebrae. Sacrum, coccyx	2
3	Bones of the upper limb girdle: scapula, clavicle. Humerus. Bones of the forearm	2

	and hand (wrist skeleton, metacarpus, phalanges of the fingers).	
4	Bones of the lower limb girdle (iliac, ischial and pubic bones)	2
5	Femur, patella. Bones of the lower leg	2
6	Structure of the skull, ethmoid and sphenoid bones	2
7	Temporal bone, its cavities and canals	2
8	Anatomy of the upper and lower jaw	2
9	The skull as a whole. Structures of the external and internal base of the skull.	2
10	Cranial fossae (temporal, infratemporal and pterygoid), their connections.	2
11	Final lesson on osteology and craniology. Control of mastery of the content section No. 1	2
Content section No. 2. Arthrology and myology.		
12	Muscles and fascia of the neck, topography of the neck.	2
13	Muscles and fascia of the abdomen. Inguinal canal.	2
14	Muscles and fascia of the upper limb and shoulder girdle. Muscles of the forearm and hand. Topography of the upper limb	2
15	Muscles and fascia of the pelvis and thigh. Femoral canal	2
16	Muscles and fascia of the lower leg and foot. Topography of the lower limb	2
17	Summary lesson on arthrology and myology. Control of mastery of the content section No. 2	2
18	Muscles and fascia of the neck, topography of the neck.	2
Content section No. 3. Digestive and respiratory systems.		
19	Oral cavity, tongue, palate, salivary glands, pharynx, tonsils.	2
20	Anatomy of the dento-maxillary apparatus.	2
21	Structure and topography of the pharynx and esophagus. Structure and topography of the stomach, small and large intestines.	2
22	Liver, pancreas. Formation of the common bile duct.	2
23	Spleen	2
24	Structure and topography of the lungs. Lobes, segments. The concept of acinus. Structure and topography of the bronchial tree	2
25	Anatomy and topography of the pleura. Mediastinum.	2
Content section No. 4. Urinary - reproductive and endocrine systems.		
26	Structure, topography and function of the kidneys. Nephron	2
27	Structure, topography and function of the ureters, urinary bladder, urethra.	2
28	Classification, structure and topography of endocrine glands. Final lesson on the genitourinary and endocrine systems. Control of the assimilation of the content section No. 4.	3
Total		57
Chapter 2. Nervous system and sense organs. Angiology and immune system.		
Content section No. 5. Central nervous system.		
1	Structure and topography of the spinal cord, its covering	3

2	Review of the brain. Structure of the basal and medial surface of the brain.	3
3	Medulla oblongata	3
4	Anatomy of the hindbrain (pons, cerebellum)	3
5	Relief of the rhomboid fossa. IV ventricle.	3
6	Structure of the diencephalon. III ventricle	3
7	Anatomy of the terminal brain: basal ganglia and white matter of the terminal brain	3
8	Lateral ventricles of the brain. Connections, features of the formation of their walls	3
Content section No. 6. Sense organs, cranial nerves, spinal nerves.		
9	Organ of vision. Auxiliary apparatus of the organ of vision. Pupillary reflex	3
10	Structure of the outer and middle ear	2
11	Structure of the inner ear (vestibular-cochlear organ.) Conductive pathways of the organ of hearing and balance	3
12	Oculomotor, block, abductor, accessory, hypoglossal nerves (III, IV, VI, XI, XII pairs of cranial nerves)	3
13	Trigeminal nerve (V pair of cranial nerves). I and II branches	3
14	Trigeminal nerve. (V pair of cranial nerves) III branch	3
15	Facial (VII) cranial nerve	3
16	Glossopharyngeal nerve (IX pair of cranial nerves)	3
17	Vagus nerve (X pair of cranial nerves). Features of innervation of internal organs	2
18	Innervation of the organs of the oral cavity, mucous membranes, dento-maxillary apparatus and muscles of the head.	3
19	Cervical plexus, brachial plexus (short branches). Repetition of muscles, fascia and topography of the neck, waist and free upper limb	2
20	Brachial plexus (long branches)	2
21	Lumbar plexus.	2
22	Sacral and coccygeal plexus.	2
23	Summary lesson on the peripheral and autonomic nervous system. Control of mastery of the content section No. 6	2
Content section No. 7. Angiology, lymphology and innervation of the head and neck		
24	Arch of the aorta. Common carotid and subclavian arteries. Internal carotid artery. Anastomoses between the internal carotid and subclavian arteries. Innervation and blood supply of the organs of the orbit. Features of the blood supply of the brain and spinal cord	2
25	Common and external carotid arteries. Branches, topography and blood supply objects. Innervation and blood supply of the walls and organs of the nasal and oral cavities. Anatomy of lymphatic vessels and nodes of the head and neck.	2
26	Maxillary artery: departments, topography, branches. Features of blood supply to the dentofacial apparatus	3
27	Summary lesson on angiology and innervation of the head and neck. Control of assimilation of the content section No. 7	3
Content section No. 8. Innervation and blood supply of the head and neck		
28	Anatomy of the heart. Structure, topography, blood supply and innervation. Pericardium.	2

29	Aortic arch. Common carotid and subclavian arteries. Internal carotid artery. Innervation and blood supply to organs and walls of the abdominal cavity.	2
30	Axillary and brachial arteries. Arteries of the forearm and hand: topography, branches, blood supply objects	2
31	Parietal and visceral (paired and unpaired) branches of the abdominal aorta.	2
32	Features of blood supply to internal organs.	2
33	Arteries and veins of the pelvis. Arteries and veins of the lower limb.	2
34	General and specific lymphology. Anatomy of the organs of hematopoiesis and immune defense. Lymphatic vessels and lymph nodes of body parts, lymphatic organs.	3
35	Practical skills from the material in sections 1 and 2.	3
Total		90
Together Chapter 1 and 2		147

Lesson topics for independent work

No	Topic	Number of hours
Chapter 1. Musculoskeletal system. Splanchnology.		
TOPIC: "SKELETON OF THE TORSO AND SKELETON OF THE SKULL "		
1	Structure, classification, development of bones. Age-related and typical features of bones.	4
2	Ribs, sternum. The concept of the chest, its size and shape. Bones of the upper limb girdle.	4
3	Departments of the foot, anatomy of the bones of the foot. X-ray anatomy of the bones of the limbs	4
4	Examination of the skull. Frontal, parietal, occipital bones.	4
5	Small bones of the face. Hyoid bone.	4
6	Age-related and typical features of the skull, its X-ray anatomy.	4
TOPIC: "ARTHROLOGY AND MYOLOGY"		
7	Bone joints, their classification. Signs of joints and types of movements in joints.	4
8	Joints of ribs with vertebrae and sternum. Joints of bones of the upper limb girdle. Shoulder joint. Joints of forearm and femur.	4
9	Joints of shin and foot bones	4
10	Joints of pelvic bones. Dimensions and sexual characteristics of the pelvis.	4
11	Age characteristics and X-ray anatomy of the joints of the trunk and limbs. Hip and knee joints	4
12	General myology. Muscles and fascia of the head.	4
13	Muscles and fascia of the back, chest. Diaphragm.	3
14	Auxiliary muscle apparatus. Features of synovial sheaths of limb muscles.	3
TOPIC: "DIGESTIVE AND RESPIRATORY SYSTEM"		
15	Introduction to splanchnology, the concept of organ topography, characteristics of cavities.	4

16	Peritoneum – topography, derivatives, relation to organs. Cavities and pockets of the peritoneum.	4
17	Overview of the respiratory system. External nose, nasal cavity, paranasal sinuses. Larynx: topography, muscles, ligaments, joints	4
18	Pleura: departments, topography, sinuses of the pleural cavity.	3
TOPIC: "URINOGENITORY AND ENDOCRINE SYSTEM"		
19	Overview of the urinary system.	3
20	Structure, topography of the ureters of the bladder, urinary canal.	3
21	Structure, topography and function of the internal and external male and female genital organs	4
22	Classification, anatomy, function of the endocrine glands.	4
1 semester		83
Chapter 2. The Nervous System and Sense Organs. Angiology and the Immune System.		
TOPIC: "Central nervous system" The Nervous System and Sense Organs. Angiology and the Immune System.		
1	Overview of the nervous system and its functions in the body. Derivatives of the brain vesicles. Meninges and intermeningeal spaces. Cerebrospinal fluid and its circulation pathways.	2
2	Topography and projection of the nuclei of the cranial nerves of the brainstem. Midbrain. Isthmus of the rhomboid brain.	2
3	Anatomy of the terminal brain: relief of the cerebral hemispheres. Olfactory brain. Structure of the cortex of the cerebral hemispheres	2
4	Conductive pathways of the brain and spinal cord (afferent and efferent projection pathways).	2
TOPIC: "SENSORY ORGANS AND CRANIAL NERVES"		
5	The concept of analyzers. Conducting pathways of the visual analyzer. Conducting pathways of the taste and olfactory analyzers. The organ of taste and smell. Features of the innervation of the mucous membrane and nasal cavity and tongue. Anatomy of the skin and its derivatives. Mammary gland.	2
6	Overview of the peripheral nervous system. General characteristics of the cranial nerves, their exit. Repetition of the anatomy of the skull.	2
7	Formation of the spinal nerve, its branches. Characteristics of the posterior branches of the spinal nerves. Thoracic nerves. Features of their course. Repetition of the muscles and fascia of the chest and abdomen.	2
8	General characteristics of the autonomic nervous system. Central and peripheral departments of the sympathetic autonomic system. Sympathetic trunk, autonomic plexuses.	2
9	Central and peripheral departments of the parasympathetic autonomic system.	2
10	Parasympathetic nodes of the autonomic nervous system, formation of pre- and postganglionic nerve fibers. Sympathetic nodes of the autonomic nervous system, formation of pre- and postganglionic nerve fibers. Sympathetic plexuses	2
TOPIC: "INNERVATION AND BLOOD SUPPLY OF THE HEAD AND NECK"		
11	Orbital arteries. Anastomoses between the external and internal carotid arteries.	2

12	Arteries and veins of the cranial cavity. Anastomoses between the internal carotid and subclavian arteries. Formation of the internal, external and anterior jugular veins.	2
TOPIC: "CARDIOVASCULAR SYSTEM"		
13	Development of the heart and circulatory system. Mediastinum. Pericardium.	2
14	Portocaval and cava-caval anastomoses.	1
15	Lymph nodes of the chest, abdomen and pelvis.	1
16	Preparation for test control	2
Total 2 semester		30
Total chapters 1, 2		113

Topics of the lecture course: reveal problematic issues of the relevant sections of Human Anatomy.

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Practical classes provide theoretical substantiation of the main issues of the topic.

Independent work of the applicant involves preparation for practical classes and final control, study of topics for independent extracurricular work, preparation of abstract reports, presentations, tables. Control of mastering the topics of independent extracurricular work is carried out in classes and final control in the discipline.

Individual work includes the study of scientific literature, preparation of reviews on the provided topics for presentation, performance of scientific and practical research, participation in specialized Olympiads, scientific and practical conferences, competitions of applicant scientific works.

Calendar plans of practical classes, thematic plan of independent extracurricular work, volume and directions of individual work are published on the website of the department. provide theoretical substantiation of the main issues of the topic.

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Route for obtaining materials: EMU website/Applicant/Department of Fundamental Disciplines/Educational and Methodological Support of the Department/Human Anatomy/ or via the link Department of Fundamental Disciplines, discipline "Human Anatomy". Access to materials is provided from the applicant's corporate account based on Office 365.

6. Forms and methods of monitoring learning success

Current control in practical classes	Methods: individual oral questioning, structured written work, test tasks with a choice of correct answers.
Control of mastery of the thematic section of the discipline at intermediate control classes..	Methods: oral or written survey, electronic testing, self-control and self-assessment methods

Final semester control upon completion of 1 semester	According to the Regulation on Control Measures in the EMU (Regulations of the EMU)
Final discipline control - exam	Methods: according to examination tickets in the form of an oral exam, control of the acquisition of practical skills (According to the Regulations on control measures at the EMU (regulations of the EMU)
Tools for diagnosing learning success	Theoretical questions, tests.

Evaluation criteria

Knowledge assessment is carried out according to regulation on control measures in EMU

Current control	According to the four-point system of traditional grades: 5 "Excellent", 4 "Good", 3 "Satisfactory", 2 "Unsatisfactory"
Control of practical skills	According to the four-point system of traditional grades
Exam	Based on a 200-point scale (the sum of points for the current academic activity of the student, the result of passing the exam and for successful completion of an individual task, if any) Credited: 120 to 200 points Not credited: less than 120 points (see Rating scale)
Final control for the discipline	The final control of students' academic performance is carried out after completing the study of the discipline and is implemented in the form of an exam.
Discipline assessment:	The score on the discipline is determined based on the results of assessment of current activities and is expressed using a fourpoint scale : ("Excellent", "Good", "Satisfactory", "Unsatisfactory"), multi-point scale and ECTS. The assessment in the discipline consists of an assessment of the current academic performance and the result of passing the exam (in points), which is set when evaluating theoretical knowledge and practical skills in accordance with the list defined by the discipline program. The number of points that the applicant scored for current academic.
	performance in the discipline is defined as the arithmetic mean of the number of points that the applicant received during the study of the discipline (practical, seminar, laboratory classes, etc.). The resulting value of the average traditional rating is converted to points according to the scale of conversion of traditional ratings to rating points. The maximum number of points is 200.

Matching grades on a 200-point scale, a 4-point (traditional) scale, and ECTS scale

On a 200-point scale	Rating on a 4-point scale
180–200	«5» Excellent
140–179	«4» Good
120–139	«3» Satisfactory

0–119	«2» Unsatisfactory
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On a 200-point scale	ECTS evaluation
192–200	A
172–191	B
148–171	C
128–147	D
120–127	E
0–119	F

Discipline/course policy

The student has the right to receive high-quality educational services, access to up-to-date scientific and educational information, qualified advice during the study of the discipline and mastering practical skills. The policy of the department in the provision of Educational Services is student-centered, based on the regulatory documents of the Ministry of Education and the Ministry of Health of Ukraine, the Charter of the EMU and the procedure for providing educational services regulated by the regulation on the organization of the educational process in the EMU and the principles of academic integrity.

Compliance with the EMU schedule, safety precautions in the classroom.

Requirements for preparing for practical classes.

Students should arrive at classes on time, without being late. A student who is more than 10 minutes late for classes is not allowed in and must work it out in accordance with the established procedure. During practical classes, the student must wear a work uniform (medical gown, cap). Students who do not have a work uniform are not allowed to attend classes. The student must follow the safety rules during practical classes and while staying in the Department's premises. When discussing theoretical issues, students should demonstrate tolerance, politeness and respect for their colleagues and the teacher; when performing practical tasks, the workplace should be kept in order and cleaned after completing practical work.

Use of mobile phones and other electronic devices. The use of mobile phones and other electronic devices in the classroom is not allowed, only during Distance Learning, provided that it is technically necessary.

Academic integrity. When studying the discipline, the student should be guided by the following regulations: on academic integrity of EMU ([regulation of EMU](#)). In case of violation of the regulations of academic integrity during the current and final controls, the student receives a grade of "2" and must work it out to the teacher in accordance with the established procedure.

Regulation on control measures in EMU ([Regulation of EMU](#)).

Skiping classes. Missed classes should be worked out in accordance with the procedure established in the regulations on control measures in the EMU ([regulation of EMU](#)) during the time determined by the work schedule (Department of fundamental disciplines) to the teacher on duty. To work out a missed lesson the student must pass a test and answer in writing or verbally the question on the topic of the lesson.

Procedure for admission to the final control in the discipline is given in the regulations on control measures and regulations on the organization of the educational process in the EMU ([regulation of EMU](#)) and regulations on control measures in the TNM DMI ([regulation of EMU](#)). Students who do not have missed not worked out practical classes and lectures and have received an average traditional grade of at least "3" are allowed to participate in the final control.

Additional individual points. Points are awarded subject to the mandatory participation of the head, head teacher and teacher. These points are encouraging and are added once to the total score of the current academic performance and the result of passing the comprehensive exam. Their total number for one student should not exceed 10, and the final amount of points for an academic discipline should not exceed 200 points.

Individual tasks include:

- 1) writing essays and creating multimedia presentations with reports at meetings of the student scientific group of the department – 3 points;
- 2) participation in the creation of tables, graphological structure, posters on the topics of practical classes – 2 points;
- 3) participation in the student competition in the discipline at the First Stage – 1 point;
- 4) participation/prize-winner of the All-Ukrainian student competition in the discipline - 7/10 points;
- 5) author or co-author of abstracts/article – 2/5 points;
- 6) author or co-author of an oral/information stand report at a scientific conference – 6/3 points;
- 7) author of a student scientific paper accepted for participation or awarded by a diploma of I-III degree in the All – Ukrainian competition of student scientific papers at Stage II - 8 (participation) or 10 (diploma) points.

Resolving conflict issues. If there are misunderstandings and complaints against the teacher due to quality of educational services provided, knowledge assessment, and other conflict situations, the student must first report his/her claims to the teacher. If the conflict issue is not resolved, the student has the right to submit an appeal to the head of the department in accordance with the regulations on consideration of applications from applicants for higher education in EMU ([regulation of EMU](#)), Regulations on consideration of applications, complaints, and proposals of students in EMU ([regulation of EMU](#)), Regulations on meeting the requirements of the organization of the educational process ([regulation of EMU](#)), Regulation on the appeal of the results of the final control of knowledge of applicants for higher education in EMU ([regulation of EMU](#)), Regulations on safe educational environment in EMU ([regulation of EMU](#)).

Policy in the context of distance learning. The procedure for distance learning is regulated by [regulation of EMU](#). The main training platforms for conducting training sessions are Microsoft Teams, Zoom. The procedure for conducting practical classes and lectures, working out and consultations during Distance Learning is published on the Department's Web page Department of fundamental disciplines.

Feedback from the teacher is provided directly during the lesson and/or consultation, and is also possible via email (in case of force majeure) during working hours.

1. Training resources

Educational and methodological support of the discipline is published on the website of the Department ([Department of fundamental disciplines](#)). Consultations are held according to the consultation schedule.

2. **Schedule and distribution of groups by teacher** are published on the Department's Web page ([Department of fundamental disciplines](#)).
3. **Questions for intermediate and final control of the discipline** are published on the Department's Web page ([Department of fundamental disciplines](#)).

7. Literature

Basic

1. Alice Roberts. Human Anatomy. 2015. – 256 p.
2. Chaurasia B. D. Handbook of General Anatomy: textbook / B. D. Chaurasia. - 4th ed. - New Delhi ; Bangalore ; Pune : CBS Publishers & Distributors, 2011. - 262 p.
3. Netter Frank H. (ed.) Atlas of Human Anatomy: 7th edition. - Elsevier, 2018. - 791 p.
4. Rogers A. W. Textbook of Anatomy 1st Edition. 790 p.

Information resources:

1. <http://link.springer.de/link/service/journals/00276/index.htm>
3. <http://meduniver.com/Medical/Anatom/>
4. <https://www.anatomystandard.com/>
5. <http://anatomia.ucoz.com/>

Responsible for the course
Lecturer

Tamara YEVTUSHENKO

Head of the department
ScD, Professor

Svitlana OSTROVSKA