MINISTRY OF SCIENCE, HIGHER EDUCATION AND INNOVATIONS OF THE KYRGYZ REPUBLIC

Higher Education Institution "Kyrgyz-Russian Slavic University named after the First President of the Russian Federation B.N. Yeltsin"

APPROVED B
Director ICM and BM
(position)
S.S. Abilova
(Full name)
04.11.2026

PROFESSIONAL CYCLE
Normal anatomy

COURSE ANNOTATION (Module)

Assigned to the Department **of Anatomy, Histology and Physiology**

Curriculum Code: 310501_26_1 LDi.plx
Specialty code 31.05.01 (Russian Federation) / 560001 (Kyrgyz Republic) — General Medicine

Qualification: Medical Doctor
Mode of study: Full-time

Total Workload:**10 ZET**
Total Curriculum Hours: 300
including:
Contact hours (auditorium sessions): 180.8
Independent Work: 89.7

Assessment Types by Semester:
pass/fail assessment: Semester 1
examination: Semester 2

Course Hours Scheduling (per semester)

Semester (course, academic year)	**1 (1.1)**		**2 (1.2)**		Total	
Weeks	21		21			
Type of Activity	AC	CO	AC	CO	AC	CO
Lectures	30		30		60	
Laboratory Practicum	60		60		120	
Including Interactive Session	0.3				0.3	
Consultation hours during the examination period			0.5		0.5	
Including interactive activities	6		6		12	
Total In-class Hours	90		90		180	
Contact Work (Face-to-Face)	90.3		90.5		180.8	
Independent Work	59.7		30		89.7	
Control Hours			29.5	29.5	29.5	29.5
Total	150		150	29.5	300	29.5

1. COURSE OUTLINE OBJECTIVES	
1.1	**Knowledge**
1.1.1	Demonstrate comprehensive understanding of the macroscopic and microscopic structure of the human body, including all organ systems, based on modern anatomical science.
1.1.2	Describe the topographic relationships of organs, neurovascular bundles, fascial spaces, and anatomical landmarks in all body regions.
1.1.3	Explain the structural and functional organization of the human body as an integrated whole, as well as the anatomy of individual organs and systems.
1.1.4	Analyze age-related, sex-related, and individual anatomical variations, as well as common congenital malformations.
1.1.5	Integrate knowledge of human evolution (phylogenesis), anthropogenesis, and individual development (ontogenesis) to explain the structural organization of the human body.
1.2	**Skills**
1.2.1	Identify and demonstrate anatomical structures, their components, and spatial relationships on cadaveric specimens, anatomical models, and diagnostic imaging (X-ray, CT, MRI).
1.2.2	Palpate major bony and muscular landmarks on a living subject and map the surface projections of neurovascular bundles.
1.2.3	Apply correct anatomical terminology when describing structures and their relationships.
1.2.4	Utilize modern anatomical research methods, including 3D imaging, virtual dissection software, and scientific literature.
1.3	**Expertise:**
1.3.1	Synthesize anatomical knowledge to solve diagnostic and therapeutic tasks, serving as a foundation for clinical disciplines, while demonstrating the ability to independently master complex medical material.
1.3.2	Uncompromisingly uphold the highest standards of medical humanism and compassion, demonstrating profound respect, dignity, and meticulous care toward anatomical specimens and donors within the dissection laboratory environment.

2. PLACE OF THE COURSE IN THE EDUCATIONAL PROGRAM	
Educational Program Unit	
2.1	**Student's Preliminary Training Requirements (Prerequisites):**
2.1.1	Biology
2.1.2	Chemistry
2.1.3	Physics
2.1.4	Latin Language and Medical Terminology
2.1.5	Fundamentals of Information Technology
2.1.6	History of Medicine
2.1.7	Bioethics and Medical Deontology
2.2	**Subsequent Disciplines Requiring Proficiency in This Course**
2.2.1	Histology, Cytology, and Embryology
2.2.2	Normal Physiology
2.2.3	Biochemistry
2.2.4	Pathological Anatomy
2.2.5	Pathophysiology
2.2.6	Pharmacology

2.2.7	Microbiology, Virology, and Immunology
2.2.8	Topographic Anatomy and Operative Surgery
2.2.9	Diagnostic Radiology and Medical Imaging
2.2.10	Propaedeutic of Internal Medicine
2.2.11	General Surgery
2.2.12	Faculty Surgery
2.2.13	Hospital Surgery
2.2.14	Traumatology and Orthopedics
2.2.15	Pediatric Surgery
2.2.16	Urology
2.2.17	Obstetrics and Gynecology
2.2.18	Otorhinolaryngology
2.2.19	Ophthalmology
2.2.20	Neurology and Neurosurgery
2.2.21	Internal Medicine (Faculty and Hospital Therapy)
2.2.22	Pediatrics
2.2.23	Endocrinology
2.2.24	Infectious Diseases
2.2.25	Oncology
2.2.26	Forensic Medicine
2.2.27	Sports Medicine
2.2.28	Occupational Medicine
2.2.29	Medical Rehabilitation
2.2.30	Clinical Laboratory Diagnostics

3. STUDENTS' COMPETENCIES RESULTING FROM THE COURCE UNIT (MODUL	
OPC-9: the ability to assess the morphofunctional, physiological states and pathological proce in human body for solving professional problems.	
Knowledge:	
Level 1	Describe the common patterns of human body structure and the structural-functional relationships between its parts. Define the main methods of anatomical research and apply correct anatomical terminology. Identify the basic organizational levels of the human body: cells, tissues, organs, systems.
Level 2	Explain the principles of human evolution (phylogenesis) and individual development (ontogenesis) and their impact on organ structure. Analyze the anatomo-topographical relationships of organs and their parts in adults, children, and adolescents. Describe the main structural and topographical features of organs and organ systems, including their age-related variations. Identify common anatomical variations, anomalies, and congenital malformations of organs and systems.
Level 3	Integrate anatomical knowledge to substantiate clinical diagnoses and xplain the anatomical basis of pathological processes. Evaluate the applied value of anatomical knowledge for subsequent clinical disciplin and future professional practice. Assess the significance of fundamental anatomical research for the advancement of theoretical and clinical medicine.
Skills:	
Level 1	Correctly handle basic anatomical instruments.

	Identify and demonstrate organs, their parts, and structural details on anatomical specimens and models. Apply correct anatomical terminology when naming structures and describing their topographical relationships.
Level 2	Perform dissection to identify and distinguish muscles, fasciae, major blood vessels, nerves, and glandular ducts. Identify and demonstrate organs and their key structural features on radiographs (X-ra images). Correlate anatomical structures with their radiological appearance on basic imaging modalities.
Level 3	Palpate major bony and muscular landmarks on a living subject. Map the surface projections of major neurovascular bundles in various body regions. Demonstrate and correctly name joint movements on the human body or anatomical models. Identify organs and their structural details on advanced medical images (CT, MRI scans).
Expertise:	
Level 1	Utilize scientific literature (textbooks, atlases, peer-reviewed journals) for professional development. Apply basic information processing technologies and digital resources in anatomical studies.
Level 2	Conduct independent work with educational literature in both print and electronic formats. Use Internet resources and medical databases (PubMed, Thieme MedOne, Complete Anatomy) for self-directed learning about human anatomy. Critically evaluate anatomical information from various sources.
Level 3	Apply anatomical terminology fluently in professional communication. Perform dissection techniques proficiently using medical instruments (scalpel, forceps, scissors) while adhering to biosafety protocols. Demonstrate respectful, ethical, and careful treatment of anatomical specimens and cadaveric material, recognizing the invaluable contribution of donors to medical education. Synthesize anatomical knowledge to solve clinical situational tasks and case studies.

Final Students' Competences

3.1	**Knowledge:**
3.1.1	Mastery of standard anatomical terminology and fundamental methods of anatomical research;
3.1.2	Understanding the historical development of anatomical science and its critical role in modern medicine and biology;
3.1.3	Knowledge of the common patterns of human body organization, structural-functional interrelationships, and the integration of organ systems;
3.1.4	Detailed knowledge of the anatomical and topographic relationships of organs and their parts in adults, children, and adolescents;
3.1.5	Understanding the main structural features, organization, and functions of all organ systems;
3.1.6	Recognition of common anatomical variations, abnormalities, and congenital malformations of organs and systems;
3.1.7	Understanding the applied value of anatomical knowledge for clinical diagnosis, surgical intervention, and future professional activity;

3.1.8	The role of fundamental anatomical research in the advancement of practical and theoretical medicine.
3.2	**Skills:**
3.2.1	Proper handling and use of anatomical dissection instruments (forceps, scalpels, scissors, probes);
3.2.2	Ability to identify and demonstrate organs, their structural components, and topographic relationships on anatomical specimens and models;
3.2.3	Ability to perform dissection to identify and distinguish muscles, fasciae, vessels, nerves, and glandular ducts;
3.2.4	Ability to identify organs and their main structures on X-ray films, CT, and MRI scans;
3.2.5	Ability to palpate major bony and muscular landmarks on a living subject and demonstrate joint movements;
3.2.6	Ability to effectively search for and utilize scientific literature and medical databases.
3.3	**Expertise:**
3.3.1	Integration of modern digital tools (3D anatomy software, virtual dissection tables) into professional anatomical study and practice;
3.3.2	Capability for independent critical analysis of educational and scientific literature (print and electronic media) to solve anatomical problems;
3.3.3	Execution of precise dissection techniques on biological specimens while strictly adhering to biosafety protocols and ethical standards regarding donor material.