



## INTERNATIONAL SCHOOL OF MEDICINE

### SYLLABUS

<b>Program:</b>	<b>General medicine</b>
<b>Qualification of the graduate:</b>	<b>General practitioner / Medical doctor</b>
<b>Year:</b>	<b>2021-2022</b>
<b>Semester:</b>	<b>4, 5 semesters</b>
<b>Course duration:</b>	<b>20 weeks</b>
<b>Instructor/Assistant/Professor</b>	<b>Name: Lector: Imanalieva A.S.</b>
<b>Department:</b>	<b>Macro- and microanatomy</b>
<b>Day and Time for consultation:</b>	
<b>Classroom:</b>	<b>312</b>
<b>e-mail:</b>	
<b>Course Title:</b>	<b>1</b>
<b>Must/Elective:</b>	
<b>Credit/Hours:</b>	<b>40</b>
<b>Course Description:</b>	The purpose is the formation of students' knowledge of human anatomy, both of the body as a whole, and of individual organs and systems, on the basis of modern achievements in macro- and microscopy; the ability to use the knowledge gained in the subsequent study of other fundamental and clinical disciplines, as well as in the future professional activity of a doctor.
<b>Course Objectives:</b>	<ol style="list-style-type: none"> <li>1. studying of the constitution, functions and topography of organs of the human body, anatomical and topographic relationships of organs, their X-ray image, individual and age-related features structure of the body, including the prenatal period of development (organogenesis), variants of variability of individual organs and their malformations.</li> <li>2.the formation of students' knowledge about the interdependence and unity of the structure and function of both individual organs and the body as a whole, about the relationship of the body with changing environmental conditions, the influence of environmental, genetic factors, the nature of work, profession, physical culture and social conditions on development and the structure of the body.</li> <li>3. the formation of an integrated approach among students in the study of the anatomy and topography of organs and their systems; synthetic understanding of the structure of the human body as a whole as the relationship of individual parts of the body; ideas about the importance of fundamental research in anatomical science for applied and theoretical medicine.</li> </ol>

<p><b>Prerequisites:</b></p>	<p>the basic knowledge necessary for studying the discipline is formed in the cycle of humanitarian and socio-economic disciplines, including: philosophy, bioethics, psychology and pedagogy, history of medicine, Latin; in a cycle of mathematical and natural science disciplines, including: physics, mathematics, chemistry, biology, histology, embryology, cytology. The main theoretical disciplines required for the study of human anatomy: biology, physics, chemistry.</p>
<p><b>Post-requisites:</b></p>	<p>under the study the relationship of human anatomy with other medical disciplines is used in the form of integrating teaching it with biology, histology, physiology, pathology and applied clinical disciplines. Relationship with pharmacology. The development of the human body in ontogenesis is described and a brief comparison is made with the development of vertebrates at the Department of Human Anatomy. Materials from the course of human anatomy help to understand the biological nature of a person, structural, age and sex characteristics of the human body, the morphological basis of the action of pharmacological drugs. Based on the requests and requirements of clinical disciplines (nursing in therapy with a course of primary health care, nursing care for various diseases and conditions, etc.), as well as medical and preventive disciplines, examples from the clinic are widely used in teaching human anatomy.</p>
<p><b>Learning Outcomes: (expected knowledge &amp; ability at the end)</b></p>	<p>A graduate in the specialty 560001 "General Medicine" with the assignment of the qualification of a specialist "General practitioner" in accordance with the State Educational Standard of Higher Professional Education and MEP and the tasks of professional activity, must have the following professional competencies:</p> <p>PC -1 - is able and ready to comply with the rules of medical ethics, laws and regulations on working with confidential information, and maintain medical secrecy.</p> <p>PC - 7 is able and ready to work with medical and technical equipment used in work with patients, to use the capabilities of modern information technologies to solve professional tasks.</p> <p>PC – 15 - is able and ready to analyze the patterns of functioning of individual organs and systems, use knowledge of anatomical and physiological characteristics, the basic methods of clinical and laboratory examination and assessment of the functional state of the body of an adult and children, for the timely diagnosis of diseases and pathological processes.</p>
<p><b>Basic references:</b></p>	<ol style="list-style-type: none"> <li>1. Human Anatomy. B.D. Chaurasia's. Volume one, v. two, v. three. CBS Publishers &amp; Distributors, 2016.</li> <li>2. Clinical anatomy for medical students. Richard S. Snell. Lippincott. Williams &amp; Wilkins, 2000.</li> <li>3. Lecture notes. J. White. Kalpan, Inc. 2019.</li> </ol>

	<ol style="list-style-type: none"> <li>4. The developing human. Keith L. Moore. Elsevier, Inc. 2019.</li> <li>5. Carmine D. Clemente. Anatomy, regional atlas of the human body 5<sup>th</sup> edition. Lippincott. Williams &amp; Wilkins, 2006.</li> <li>6. Atlas of Human Anatomy. H. Netter ISBN 3-905298-05-8 Basel, 2003.</li> <li>7. Textbook of human anatomy. M.R. Sapin., L.L. Kolesnikov., D.B. Nikitjuk. In two volumes. New Wave Publishing Agency, Moscow, 2010.</li> <li>8. Human anatomy. M. G. Prives. Volume I, II. English translation. Mir Publishers, Moscow, 1985.</li> <li>9. Textbook of anatomy with clinical correlations. I. Singh. Volume 1, 2, 3. Jaypee Brothers Medical Publisher LTD &amp; New Delhi, 2011.</li> <li>10. The Human Body in Health &amp; Disease. Memmler. Cochen Wood, 1996.</li> <li>11. Human anatomy, Gosling, Harris, Humpherson, Whitmore. Mosby-Wolfe, 1995.</li> <li>12. Grant's atlas of anatomy. Agur Dalley. Lippincott. Williams &amp; Wilkins, 2003.</li> </ol>
<p><b>Supplementary Textbook and Materials:</b></p>	<ol style="list-style-type: none"> <li>1. Textbook. The systemic anatomy of the bones and joints. Y. Gaivoronskaya., A. Imanalieva., V. Lobzova. Private printing-house, 2018. Textbook.</li> <li>2. The systemic anatomy of the skull. Y. Gaivoronskaya., A. Imanalieva., V. Lobzova. Private printing-house, 2018.</li> <li>3. Textbook. The systemic anatomy of the muscular system. Y. Gaivoronskaya., A. Imanalieva., V. Lobzova. Private printing-house, 2018.</li> <li>4. Textbook. The systemic anatomy of the digestive system. Y. Gaivoronskaya., A. Imanalieva., V. Lobzova. Private printing-house, 2018.</li> <li>5. Textbook. The systemic anatomy of the respiratory and endocrine systems. Y. Gaivoronskaya., A. Imanalieva., V. Lobzova. Private printing-house, 2018.</li> <li>6. Textbook. The systemic anatomy of the urinary and reproductive systems. Y. Gaivoronskaya., A. Imanalieva., V. Lobzova. Private printing-house, 2018.</li> <li>7. Textbook. The systemic anatomy of the central nerve system. Y. Gaivoronskaya., A. Imanalieva., V. Lobzova. Private printing-house, 2019.</li> <li>8. Textbook. The systemic anatomy of the sensory organs. Y. Gaivoronskaya., A. Imanalieva., V. Lobzova. Private printing-house, 2019.</li> <li>9. Textbook. The systemic anatomy of the cardiovascular and lymphatic systems. Y. Gaivoronskaya., A. Imanalieva., V. Lobzova. Private printing-house, 2019.</li> <li>10. Textbook. The systemic anatomy of the peripheral nerve system. Y. Gaivoronskaya., A. Imanalieva., V. Lobzova. Private printing-house, 2019.</li> </ol>

**COURSE POLICY AND EVALUATION CRITERIA:**

Type of control (current, milestone, final)	Control form	Assessment of learning outcomes
Attendance	For one missed lesson minus 2 points	20 points
Current control	Oral survey, written work	20 points
IWS+IWW	Performing assignments, work with literature	20 points
Milestone control (modul submission)	Testing, control tasks	40 points
Final control (differential test)	Conversation, examination (test.edu.kg)	100 points

Scale of correspondence between grades and scores on the final control (exam)	
Score	Grade
90-100	«excellent»
76-89	«good»
60-75	«satisfactory»
0-59	«unsatisfactory»

**4 semester**

Course Plan	Lecture / Practice	Subject
1 class	<b>P</b>	Clinical anatomy of the heart.
2 class	<b>P</b>	Clinical anatomy of the vascular system.
3 class	<b>P</b>	Clinical anatomy of the endocrine glands.
4 class	<b>P</b>	Clinical anatomy of internal female genital organs.
5 class	<b>P</b>	Clinical Anatomy of the External Female Genital Organs, Perineum.

**5 semester**

Course Plan	Lecture / Practice	Subject
1 class	<b>P</b>	Clinical anatomy of the nervous system.
2 class	<b>P</b>	Clinical anatomy of the gastrointestinal tract.
3 class	<b>P</b>	Clinical Anatomy of the Urinary System, Male Reproductive System.
4 class	<b>P</b>	Clinical anatomy of the musculoskeletal system.

## 5 semester

<b>Course Plan</b>	<b>Lecture / Practice</b>	<b>Subject</b>
1 class	<b>L</b>	Clinical anatomy of the nervous system.
2 class	<b>L</b>	Clinical anatomy of the gastrointestinal tract.
3 class	<b>L</b>	Clinical Anatomy of the Urinary System, Male Reproductive System.
4 class	<b>L</b>	Clinical anatomy of the musculoskeletal system.