



# 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>2022-2023</b>
<b>Semester:</b>	<b>7 semester</b>
<b>Course duration:</b>	<b>14 weeks</b>
<b>Instructor/Assistant/Professor</b>	<b>Assistant prof. Akmatov N.A., senior teachers Gaivoronskay Y.B., Imanalieva A.C. Shamil u.E.</b>
<b>Department:</b>	<b>Department of Macro- and Microanatomy</b>
<b>Day and Time for consultation:</b>	
<b>Classroom:</b>	
<b>e-mail:</b>	
<b>Course Title:</b>	<b>4c.</b>
<b>Must/Elective:</b>	
<b>Credit/Hours:</b>	<b>1,5/ 47h</b>
<b>Course Description:</b>	<p>Operative surgery studies the technique of surgical interventions. Based on modern advances in anatomy and physiology, operative surgery develops ways to rationally expose organs and perform certain effects on them, allows you to choose the most rational operative access and reception.</p> <p>The purpose of studying the discipline is anatomical and surgical training of students to provide basic knowledge and skills necessary for subsequent classes at clinical departments and in independent medical activity to achieve the set learning goals.</p>
<b>Course Objectives:</b>	<ol style="list-style-type: none"><li>1. formation of students' skills to navigate the complex structure of the human body, accurately and accurately find and determine the location and projection of organs and their parts on the surface of the body, i.e. possession of "anatomical material" for understanding pathology, diagnosis and treatment.</li><li>2. mastering elementary surgical actions and some standard surgical techniques by students.</li><li>3. education of students, guided by traditional principles</li></ol>

	humanism and mercy, respectful and careful attitude to the object under study; to the organs of the human body, to the corpse; inculcation of highly moral norms of behavior in the sectional halls of a medical university.
<b>Prerequisites:</b>	<ul style="list-style-type: none"> <li>- in the cycle of humanities and socio-economic disciplines, including: philosophy, bioethics, psychology and pedagogy, history of medicine, Latin language;</li> <li>- in the cycle of mathematical and natural science disciplines , including: physics, mathematics, normal anatomy, topographic anatomy, chemistry, biology, histology, embryology and cytology, normal physiology.</li> </ul>
<b>Post-requisites:</b>	it is a precursor for the study of clinical disciplines of surgical profile.
<b>Learning Outcomes: (expected knowledge &amp; ability at the end)</b>	<p><b>PC-19</b> - capable and ready to provide first aid in case of emergency and life-threatening conditions, to send patients to hospital on a planned and emergency basis;</p> <p><b>PC-20</b> - capable and ready to provide medical assistance in emergency situations, including those requiring medical evacuation;</p> <p><b>APC-1</b> - able to apply specialized skills in solving problems in unpredictable conditions;</p> <p><b>APC -4</b> - apply practical skills, diagnostic methods and treatment tactics when providing medical care in emergency conditions.</p>
<b>Basic references:</b>	<ol style="list-style-type: none"> <li>1. Endovascular Skills. Peter A. Schneider. Taylor &amp; Francis Group, LL, 2020.</li> <li>2. Thoracic Surgery. Claudiu E. Nistor. Springer Nature Switzerland AG, 2020.</li> <li>3. Neurosurgical Operative Atlas. R. Loch Macdonald. Thieme Medical Publishers, 2019.</li> <li>4. Plastic Surgery Kevin C. Chung. Wolters Kluwer, 2019.</li> <li>5. Manual of Surgery. Sriram Bhat M. The Health Sciences Publisher New Delhi, 2019.</li> <li>6. Netter's Surgical Anatomy and Approaches. Conor P. Delaney. Saunders, an imprint of Elsevier Inc., 2014.</li> <li>7. Fischer's Mastery of Surgery Josef E. Fischer.</li> </ol>

	<p>Lippincott Williams, 2012.</p> <p>8. Applied basic science for basic surgical training. Andrew T. Raftery. Elsevier Limited, 2008.</p> <p>9. Topographic anatomy and operative surgery. Prof. T.A. Fominykh. Simferopol. Tavria, 2006.</p>
<b>Supplementary Textbook and Materials:</b>	<p>1. Concepts in surgical critical care. Bryan Boling. Jones &amp; Bartlett Learning, LLC, an Ascend Learning Company, 2021.</p> <p>2. Atlas of Adult Congenital Heart Surgery. Constantine Mavroudis. Springer Nature Switzerland AG, 2020.</p> <p>3. Atlas of Upper Gastrointestinal and Hepato-Pancreato-Biliary Surgery. Pierre-Alain Clavien. Springer-Verlag Berlin Heidelberg, 2016.</p> <p>4. Surgical Atlas of Sports Orthopaedics and Sports Traumatology. Andreas B. Imhoff, Matthias J. Feucht. Springer-Verlag Berlin Heidelberg, 2015.</p> <p>5. Human Anatomy. B.D. Chaurasia's. Volume one, v. two, v. three. CBS Publishers &amp; Distributors, 2016.</p> <p>6. Clinical anatomy by regions. Richard S. Snell. Lippincott. Williams &amp; Wilkins, 2012.</p> <p><b>The list of resources of the information and telecommunication network "Internet" necessary for mastering the discipline:</b></p> <p>1. You Tube: Lecturio Medical Education, Prof. Ahmed M. Kamal, Ninja Werd Science, Jono 03, Bhushen Science, Professorfink, AK Lectures, Kenhub-learn, Dr. Najeeb Lectures, Dr been Medical Lectures.</p> <p>2. Website : britannica.com, mananatomy.com, teachemeanatomy.org, Wikipedia.edu, embryology.med.unsw.edu, library.open.oregonstate.edu, siencedirect.com, aclandanatomy.com.</p>

**COURSE POLICY AND EVALUATION CRITERIA:**

<b>Scoring Policy</b>	<b>Assessment of learning outcomes</b>
Availability of lectures	10 points
Active in discussions, oral survey, working with glossary	30 points
Attendance	5 points
Individual work: report	15 points
Total module:	
-practical skills	20 points
-testing	20 points
Total by discipline:	100 points

<b>Scale of correspondence between grades and scores on the final control (exam)</b>	
<b>Score</b>	<b>Grade</b>
85-100	«excellent»
70-84	«good»
55-69	«satisfactory»
0-54	«unsatisfactory»

<b>Course Plan</b>	<b>Lecture / Practice</b>	<b>Subject</b>
1 week	<b>P</b>	Introduction of the operative surgery. Surgical instruments. Surgical incision. Surgical suture.
2 week	<b>P</b>	The operative surgery of the head and neck.
3 week	<b>P</b>	The operative surgery of the thoracic wall.
4 week	<b>P</b>	The operative surgery of the thoracic cavity.
5 week	<b>P</b>	Operative surgery of the abdominal wall.
6 week	<b>P</b>	Operative surgery of the abdominal cavity.
7 week	<b>P</b>	Operative surgery of the organs and vessels of the retroperitoneal space. Operative surgery of the spinal cord.
8 week	<b>P</b>	Operative surgery of the male genital organs.
9 week	<b>P</b>	Operative surgery of the female genital organs.
10 week	<b>P</b>	Operative surgery of the upper limb.
11 week	<b>P</b>	Operative surgery of the lower limb.
12 week	<b>P</b>	Amputation and disarticulation.
13 week	<b>P</b>	Module
14 week	<b>P</b>	Test week.