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Khanty-Mansiysk Autonomous Okrug-Ugra
 "Surgut State University"

Approved by
 Deputy Rector for Academic Affairs

 E.V. Konovalova

"11" June 2025, Record No. 5

Clinical surgery

Syllabus

Department	Surgical Diseases
Curriculum	s310501-ЛечДелоИн-25-6.plx Specialty 31.05.01 General Medicine
Qualification	General Practitioner
Form of education	Full-time
Total (in credits)	2
Total academic hours	72
including:	
Classes	48
Self-study	24

Control:
 12 credits

Course outline in terms

Academic year (Term)	12 (6.2)		Total	
Weeks	17 2/6			
Types of classes	Cur	Sul	Cur	Sul
Practical	48	48	48	48
Total contact	48	48	48	48
Contact	48	48	48	48
Self-study	24	24	24	24
Total	72	72	72	72

The Syllabus is compiled by:

Doctor of Medicine, Professor, Ilkanich A. Y., Doctor of Medicine, Professor, Darwin V. V.

The Syllabus

Clinical surgery

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on February 9, 2016 No. 95)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, "11" June 2025, Record No. 5

The Syllabus was approved by the department

Surgical diseases

Head of Department: Doctor of Medicine, Professor Darwin V.V

1. COURSE OBJECTIVES	
1.1	The course aims to provide comprehensive knowledge of the etiology, pathogenesis, clinical manifestations, and diagnostic approaches to surgical diseases, alongside therapeutic and preventive measures. It also fosters advanced clinical judgment through hands-on training in autonomous patient care, medical documentation, diagnostic planning, interpretation of specialized examinations, and surgical strategy formulation.
1.2	Student education is conducted with an emphasis on developing the skills and abilities required for independent physician practice in the diagnosis and management of the most prevalent surgical conditions.
2. COURSE OVERVIEW	
Course code (in curriculum)	B1.B
2.1 Assumed background:	
2.1.1	Hospital surgery, pediatric surgery
2.1.2	Topographic anatomy and operative surgery
2.1.3	Normal physiology
2.1.4	General surgery, radiation diagnostics
2.1.5	Clinical anatomy
2.2 Post-requisite courses and practice:	
2.2.1	Disaster Medicine
2.2.2	Oncology, radiation therapy
2.2.3	Instrumental research methods
2.2.4	Preparation for passing and passing the state exam
3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)	
GC-8: readiness to work in a team, with a tolerant attitude toward social, ethnic, confessional, and cultural diversity.	
GPC-6: readiness to maintain medical records	
GPC-8: readiness for the clinical application of medications and other substances (including combinations) within professional practice.	
GPC-11: readiness to apply medical devices in accordance with approved medical care standards	
PC-5: readiness to gather and interpret patient histories, physical exam findings, and diagnostic test results (including laboratory, imaging, and pathological studies) to evaluate health status and determine the presence or absence of disease	
PC-6: ability to identify in patients the principal pathological conditions, symptoms, disease syndromes, and nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems (ICD)	
PC-8: ability to determine the tactics of managing patients with various nosological forms	
PC-11: readiness to provide emergency medical care for conditions requiring urgent medical intervention	
PC-21: ability to participate in scientific research	
PC-22: readiness to participate in implementing new methods and approaches aimed at protecting public health	

By the end of the course students must:

3.1 know:	
3.1.1	- clinical manifestations of major surgical syndromes;
3.1.2	- pathogenesis of surgical diseases;
3.2 be able to:	
3.2.1	- to make a preliminary diagnosis is to synthesize information about the patient in order to determine the pathology and the causes of it.;
3.2.2	- to outline the scope of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result.;
3.2.3	- formulate a clinical diagnosis;
3.2.4	- to develop a plan of therapeutic (surgical) actions, taking into account the course of the disease and its treatment;
3.2.5	- to formulate indications for the chosen treatment method, taking into account etiologic and pathogenetic agents, to justify pharmacotherapy in a particular patient with underlying pathological syndromes and urgent conditions, to determine the route of administration, regimen and dose of medications, to evaluate the effectiveness and safety of the treatment.

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)						
Class code	Topics /Class type	Term / Academic year	Academic hours	Competences	Literature	Notes
	Unit 1. Abdominal pain syndrome					

1.1	Abdominal pain Syndrome /Pr/	12	8	GC-8 GPC- 6 GPC-8 PC-6 PC-8 PC-21	L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
1.2	Abdominal Pain Syndrome /Ss/	12	4	GC-8 GPC- 8 PC-8 PC- 21	L1.4 L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
	Unit 2. Acute blood loss syndrome					
2.1	Acute blood loss syndrome /Pr/	12	8	GC-8 GPC- 6 PC-8 PC- 22	L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
2.2	Acute blood loss syndrome /Ss/	12	4	GC-8 GPC- 8 PC-6	L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
	Unit 3. Acute intestinal obstruction syndrome					
3.1	Acute intestinal obstruction syndrome /Pr/	12	8	GC-8 GPC- 8 PC-5 PC- 6	L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
3.2	Acute intestinal obstruction syndrome /Ss/	12	4	GC-8 GPC- 11 PC-6 PC -11	L1.1 L1.2 L1.5 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
	Section 4. Jaundice syndrome					
4.1	Jaundice syndrome /Pr/	12	6	GC-8 GPC- 11 PC-8 PC -21	L1.3 L1.1 L1.2 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
4.2	Jaundice Syndrome /Ss/	12	4	GC-8 GPC- 6 GPC-11 PC-8	L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
	Section 5. Dysphagia syndrome					
5.1	Dysphagia syndrome /Pr/	12	6	GC-8 GPC-11 PC-6	L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
5.2	Dysphagia syndrome /Ss/	12	4	GC-8 GPC- 6 GPC-11 PC-6 PC-11 PC-21	L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	

	Section 6. Systemic inflammatory reaction syndrome in surgery					
6.1	Systemic inflammatory reaction syndrome in surgery /Pr/	12	6	GC-8 GPC- 6 GPC-8 PC-5 PC-11	L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
6.2	Systemic inflammatory reaction syndrome in surgery /Ss/	12	4	GC-8 GPC- 11 PC-5 PC -8 PC-11 PC-22	L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
6.3	Sepsis. Modern approaches and surgical tactics. /Pr/	12	6	GC-8 GPC- 8 PC-5 PC- 6 PC-8 PC- 11 PC-22	L1.1 L1.2 L1.3 L2.1 L2.2 L3.1 L3.2 E2 E3 E4 E5 E6	
6.4	Control work	12	0	GC-8 OPK - 6 GPC-8 GPC-11 PC -5 PC-6 PC - 8 PC -11 PC - 21 PC -22	L1.1 L1.2 L1.3L2.1 L2. 2L3.1 L3.2. E2 E3 E4 E5 E6	
6.5	Credit	12	0	GC-8 OPK - 6 GPC-8 GPC-11 PC -5 PC-6 PC - 8 PC -11 PC - 21 PC -22	L1.1 L1.2 L1.3L2.1 L2. 2L3.1 L3.2. E1 E2 E3 E4 E5 E6	

5. ASSESSMENT TOOLS.

5.1. Assessment tools for ongoing monitoring and intermediate certification

Supplement 1

5.2. Assessment tools for diagnostic testing

Supplement 1

6. COURSE (MODULE) RESOURCES

6.1. Recommended literature

6.1.1. Core literature

	Authors	Title	Publisher, year.	Quantity
L1.1	Savelyev V.I., Kiriyyenko A.I.	Clinical surgery: a practical guide.	Moscow: GEOTAR - Media, 2013, electronic resource	1
L1.2		Clinical surgery: a practical guide.	Moscow: GEOTAR - Media, 2009, electronic resource	1
L1.3	Savelyev V.I., Kiriyyenko A.I.	Clinical surgery: a practical guide.	Moscow: GEOTAR - Media, 2010, electronic resource	1

L1.4	Yarosh A. L., Soloshenko A.V., Frantsev S. N. P., Oleinik N. V., Bratishcheva N. N., Pilipenko A. O., Leshchenko A. I., Isabayeva Zh. N., E. Al - Kanani I., Zharkovo S. N. V.,Gerasimov I. V., Miroshnichenko O. V., Tsymbalistov A.V.,Ovchinnikov I.	Clinical surgery (general, faculty, hospital): the training manual.	Belgorod: NRU BelSU, 2023, electronic resource	1
L1.5	Timerbulatov V. Jr., Garipov R. Jr., Timerbulatov M. V., Sibaev V. N. Jr., Timerbulatov Sh. V., Fedorov S. N. V., Semenov E. N. E., Gafarova A. PD.	Clinical surgery: a textbook.	Ufa: BSMU, 2020, electronic resource	1
6.1.2. Supplementary literature				
	Authors	Title	Publisher, year	Quantity
L2.1	Vorobyov A.I.	Hematology and Transfusiology: a scientific journal.	Moscow: Medicine, 2011, electronic resource	1
L2.2	Kuznetsov N. A.	Clinical surgery: patient examination: a guide.	Moscow: GEOTAR - Media, 2020, electronic resource	1
6.1.3. Didactic materials				
	Authors	Title	Publisher, year	Quantity
L3.1	Zhdanovsky V. V., Darwin V. V.	Outpatient Umbilical Hernia Surgery (one-day surgery): textbook for students of higher educational institutions studying in the specialty: 040126 - "Surgery"	Surgut: Surgut Publishing Center, 2012	100
L3.2	Evtikhov R. M..	Clinical surgery: a textbook.	Moscow: GEOTAR - Media, 2006, electronic resource	1
6.2. Internet resources				
E1	Polpred.comm			
E2	Eurasian Patent Information System (EAPATIS)			
E3	A single window of access to educational resources is an information system.			
E4	The State Public Scientific and Technical Library of the Siberian Branch of the Russian Academy of Sciences.			
E5	PubMedCentral (PMC)			
E6	University Information System RUSSIA			
6.3.1 Software				
6.3.1.1	Microsoft Office, Internet			
6.3.2 Information Referral systems				
6.3.2.1	Reference information bases: «Garant», «Consultant plus», «Consultant-region».			
7. Material and technical resources				
7.1	The lecture auditorium is equipped with a multimedia projector, a screen, a laptop, a stationary chalkboard, and standard educational furniture: desks, chairs.			

7.2	<p>Practical classes, group and individual consultations, ongoing monitoring and intermediate certification are conducted in the classroom of the Surgut Design Bureau. The list of equipment of the Surgut Design Bureau includes a mobile single-dome surgical lamp of the Medilux-S-Single D 600mm series, a tent surgical aspirator HICOVAC 700CH B 700CN V, a Mega Power surgical electrocoagulator, a KARL STORZ laparoscopic stand, an ATMOS medical vacuum suction. record 55 record 55. The Force Triad Valleylab Force Triad electrosurgical energy platform, an operating table, a mobile multifunctional electro-mechanical-hydraulic complete set for general surgery AXIS 303E, an operating lamp, surgical, shadowless MediLux-Sindle, a Doppler device for transanal hemorrhoidal dearterialization THD EVOLUTION, an endovideoscopic surgical stand with a set of additional instruments and optics, a headlamp, etc.-1: Rudolf reister, pulse oximeter CRITIKARE mod.503 TX 503 TX 503 TX, gynecologist. Medi-Matic OPX115 515 SCHMITZ treatment chair, tonometer, stethoscope, phonendoscope, thermometer, medical scales, height meter, anti-shock kit, kit and styling for emergency preventive and therapeutic measures, electrocardiograph, bactericidal irradiator, anesthesia machine.-respiratory, ventilator, infusomat, postoperative suction device, defibrillator with synchronization function, surgical multifunctional universal surgical table, surgical, microsurgical instruments, universal wound expander system with attachment to the operating table, apparatus for monitoring basic functional parameters., respiratory mixture analyzer, electroencephalograph, gastroduodenoscope, duodenoscope (with side optics), colonoscope (pediatric), fibrobronchoscope (pediatric), halogen light source for endoscopy with flash, endoscopic television system, endoscopic table, endoscopy trolley, endoscope washing unit, ultrasonic cleaner, endoscopic suction pump, video endoscopic complex, video duodenoscope, video gastroscope, endoscopic suction device, enteroscope, low-energy laser installation, electrosurgical unit, operating video gastroscope, pediatric video gastroscope, operating video colonoscope, video colonoscope pediatric, diagnostic video colonoscope, argon plasma coagulator, endoscopic mucosal resection kit, balloon dilator. Tools and supplies in quantities that allow students to master the skills required by their professional activities.</p>
7.3	<p>The simulation Center of the Moscow State University. The classrooms of the simulation center are equipped with phantom and simulation equipment, laboratory instruments and consumables in sufficient quantities. Virtual simulators: 1. LAP MENTOR, Simbionix is a virtual simulation platform for developing manual skills in endoscopic surgery: practicing suture techniques and performing laparoscopic operations: appendectomy, hysterectomy, cholecystectomy, ectopic pregnancy, postoperative scar hernia, nephrectomy. 2. LAP MENTOR EXPRESS, Simbionix is a portable virtual simulation platform for developing manual skills in endoscopic surgery: practicing suturing techniques and performing laparoscopic operations: hysterectomy, cholecystectomy, nephrectomy. 3. GI BRONCH MENTOR, SIMBIONIX is an endoscopic simulator for teaching diagnostic and therapeutic gastroscopy, colonoscopy with a module for bronchoscopy with the possibility of practicing routine flexible bronchoscopy, transbronchial aspiration with a needle under ultrasound control, bronchoalveolar lavage and bronchial biopsy. 4. Laparoscopic simulator, 1.8 Full HD Professor Kelling (Czech Republic) is a universal device for teaching skills inaccessible to laparoscopic surgery, equipped with its own camera and monitor, sixteen ports allow you to position instruments in different directions, including modeling of unipolar technologies. The flexible attachment system used in the work area of the simulator allows you to secure various educational objects from special simulators based on tissue and organ models to actual biological samples. 5. Operating table Startech 3008C LLC "STARTEK", Russia 6. The operating table consists of 5 X-ray transparent sections with removable, separate foot sections, manual adjustment of the tilt angles of the sections, the height of the built-in kidney roller and height adjustment using a hydraulic foot drive. The BenQ multimedia projector. Lap mentor – (laparoscopy); GI mentor – (endoscopy); Megacodekid dummy – a 7-year-old child for resuscitation, with the possibility of defibrillation and pacing); BabyAnn - (newborn. A foreign body of the larynx); a dummy for practicing practical CPR skills ResusciBaby.; a mannequin for practicing practical CPR skills ResusciJunior; a NursingKid mannequin (a 7-year-old child with variable physiology for practicing therapeutic and diagnostic measures); a digital dummy for heart and lung auscultation Z990; a digital dummy simulator for heart and lung auscultation UN/DGN-V defibrillator Zoll; simulator "head for intubation"; simulator for conducting Subcutaneous, intramuscular injections; simulator for intravenous injections; simulator nursingkid, nursingbaby; simulator for practicing puncture and drainage of the chest; a set of tools for pleural puncture.; simulator for practicing abdominal puncture; trocar, a set of instruments; tonometer, phonendoscope; pulse oximeter; negatoscope; electrocardiograph electrodes; AMBU bag with a set of face masks; oxygen mask; intubation kit; a set of intubation tubes; infusion system; a set of syringes with a volume of 2.0 ml 5.0 ml 10.0 g ml; cubital catheters; fixing patch; drug simulators; aspirator; set of tools for conicosthymia; laryngeal mask; air compressor; vacuum aspirator; infusomat; lineomat; ventilator; gastric tube; nasogastric tube; a set of catheters for catheterization of the bladder, a medical tray; an enema simulator; an Esmarch mug; bandages; a set of splints; medical trays. Medical furniture</p>
7.4	Database of laboratory and instrumental research results.
7.5	Role-cards for standardized patients
7.6	Clinical Case Bank.
7.7	Simulation Scenario Library.
7.8	Competency Assessment Toolkit.