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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

HOSPITAL SURGERY, PEDIATRIC SURGERY  
 Syllabus

Department	Surgical Diseases		
Curriculum	s310501-ЛечДелоИн-25-5.plx Specialty 31.05.01 General Medicine		
Qualification	General Medicine		
Form of education	Full-time		
Total (in credits)	13		
Total academic hours	468	Control:	
including:		Credit/Mark Term 9	Exam
		Term 10, 12	
Classes	296		
Self-study	118		
Control hours	54		

Course outline in terms

Academic year (Term)	9 (5.1)		10 (5.2)		11 (6.1)		12 (6.2)		Total	
Types of classes	Cur	Syl	Cur	Syl	Cur	Types	Cur	Syl	Cur	Syl
Lectures	16	16	16	16	16	16	16	16	64	64
Practical	64	64	48	48	64	64	56	56	232	232
Contact	80	80	64	64	80	80	72	72	296	296
Self-study	28	28	17	17	28	28	45	45	118	118
Control hours			27	27			27	27	54	54
Total	108	108	108	108	108	108	144	144	468	468

The Syllabus is compiled by:  
Doctor of Medicine, Professor Darvin V. V.  
Senior lecturer, Belova V.A.

The Syllabus

**Hospital 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 August, 12, 2020 №988)

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 Darvin V.V.

1. COURSE OBJECTIVES	
1.1	The aim of the course is to obtain knowledge in etiology, pathogenesis, clinical picture and diagnostics of surgical diseases, methods of treatment and prevention, further development of clinical thinking by mastering practical skills, managing medical records, drawing up a diagnostic programme, interpreting the results of special methods of investigation and solving surgical tactics, and also to evaluate the effectiveness and safety of the therapy.

  

2. COURSE OVERVIEW	
Course code (in curriculum)	B1.O.04.47
2.1	<b>Assumed background:</b>
	Faculty Therapy
	Pathologic Syndromes in Clinical Medicine
	Topographic Anatomy, Operative Surgery
	General Surgery
	Internal Diseases Propaedeutics
	Farmacology
2.2	<b>Post-requisite courses and practice:</b>
	Obstetrics
	Hospital Therapy (the 5th year)
	Oncogynecology
	Hospital Therapy (the 6th year)
	Hospital Surgery
3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)	
PC-1.1 Demonstrates knowledge in etiology, pathogenesis, diagnostic criteria (clinical - subjective, physical, laboratory, instrumental, identifies the patient's common pathological conditions, symptoms, disease syndromes and diagnoses nosological forms according to the International Statistical Classification of Diseases and Related Health Problems, X - XI revisions	
PC-1.2 Carries out diagnostics, evaluates the prognosis (short-, medium- and long-term course) of the disease, identifies acute complications and complications of chronic diseases	
PC-3.1 Examines the patient (handle the patient's complaints, anamnesis, physical data based on the examination results, determines the necessary examination plan, evaluates the parameters of laboratory, instrumental, pathological and anatomical and other methods in order to diagnose diseases, assesses the prognosis (short-, medium- , long-term) of its course and outcomes	
PC-3.2 Makes an initial and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Health Problems X - XI revisions and current clinical classifications	
PC-3.3 Carries out early and differential diagnostics of diseases	
PC-3.4 Provides routing and management of patients based on the current legislation (standards, procedures for the provision of medical care, Clinical guidelines)	
PC-5.1 Demonstrates knowledge of the mechanisms and methods applied in pharmacotherapy, medical nutrition, medical devices and methods of non-drug treatment, palliative and personalized medical care	
PC-5.2 Provides various categories of patients with outpatient treatment, treatment in hospitals and high-tech medical care (HMC) centers applying drugs, medical devices and medical nutrition, according to clinical pattern and current procedures, standards of medical care, Clinical guidelines (treatment protocols)	
PC-5.4 Demonstrates knowledge of side effects of drugs, methods of their administration, knowledge of the duration of their use and evaluates the effectiveness and safety of pharmacotherapy, therapeutic nutrition and the use of non-drug treatment, therapeutic nutrition of palliative care	
PC-8.2 Maintains medical records, including in electronic form	

**By the end of the course students must:**

**3.1 know:**

- etiology, pathogenesis, diagnostic criteria (clinical-subjective, physical, laboratory, instrumental).
- main pathological conditions, symptoms, syndromes of diseases and diagnoses nosological forms in accordance with the International Statistical Classification of Diseases and Health Problems, X-XI revisions.
- methods of treatment and indications for their use, provision of emergency medical care in conditions requiring urgent medical intervention
- the main formulations of the preliminary and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems, X-XI revisions.
- maintaining medical records, including in electronic form.
- mechanisms of action, methods of application of pharmacotherapy, medical nutrition, medical devices and methods of nondrug treatment, palliative and personalized medical care.

**be able to:**

- to carry out differential diagnostics, to assess the prognosis (short, medium, long-term) of the course of the disease, to identify acute complications and complications of chronic diseases.
- to determine the main pathological conditions, symptoms, syndromes of diseases and diagnose nosological forms in accordance with the International Statistical Classification of Diseases and Health Problems, X-XI revisions.
- to formulate treatment and indications for their use, the provision of emergency medical care in conditions requiring urgent medical intervention
- to formulate a preliminary and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems, X-XI revisions.
- to keep medical records, including in electronic form.
- mechanisms of action, methods of application of pharmacotherapy, medical nutrition, medical devices and methods of nondrug treatment, palliative and personalized medical care.

**4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)**

Topics /Class type	Term / Academic year	Academic hours	Competences	Literature	Interactive	Notes
Section 1						
1.1 Errors and complications of acute appendicitis. /Lec/	9	2	PC-1.1 PC-3.1 PC-3.2 PC-3.4 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.2 Pathogenetic aspects of jaundice syndrome. /Lec/	9	2	PC-1.1 PC-3.1 PC-3.4 PC-5.1 PC - 5.2 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.3 Venous thromboembolic complications in surgery: pathogenesis, prevention. /Lec/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.3 PC - 5.2 PC -5.4	L1.1 L2.1 L2.2 L3.1		
1.4 Modern principles of diagnosis and treatment of surgical infection. Vacuum therapy (NPWT) for surgical infection. /Lec/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.3 PC - 5.2 PC -5.4	L1.1 L2.1 L2.2 L3.1		
1.5 Kidney transplantation. /Lec/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.3 PC - 5.2 PC -5.4	L1.1 L2.1 L2.2 L3.1		
1.6 Liver transplant. Volumetric formations of the liver. /Lec/	9	2	PC-1.1 PC-3.1 PC-3.2 PC-3.4 PC- 5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		

1.7 Modern approaches and trends in the diagnostics and treatment of acute pancreatitis. /Lec/	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.8 Sepsis. Evolution of views and approaches to the diagnostics and treatment of surgical sepsis. /Lec/	9	2	PC-1.1 PC-3.1 PC-3.3 PC-3.4 PC-5.1 PC-5.2	L1.1 L2.1 L2.2 L3.1		
1.9 Acute appendicitis. Complications of acute appendicitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	9	6	PC-1.1 PC-1.2 PC-3.1 PC-3.3 PC - 5.2 PC -5.4	L1.1 L2.1 L2.2 L3.1		
1.10 Acute appendicitis. Complications of acute appendicitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/	9	2	PC-1.1 PC- 3.2 PC-3.3 PC-3.4 PC- 5.2 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.11 Abdominal hernia. Complications of abdominal hernias. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	9	6	PC-1.1 PC-1.2 PC-3.1 PC-3.3 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.12 Abdominal hernia. Complications of abdominal hernias. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss /	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.3 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.13 Acute cholecystitis. Complications of acute cholecystitis. Complications of acute cholecystitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Obstructive jaundice. Cholangitis. Differential diagnostics. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	9	6	PC-1.1 PC-1.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.14 Acute cholecystitis. Complications of acute cholecystitis. Complications of acute cholecystitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Obstructive jaundice. Cholangitis. Differential diagnostics. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/	9	2	PC-1.1 PC-1.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		

1.15 Acute pancreatitis. Complications of acute pancreatitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	9	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.16 Acute pancreatitis. Complications of acute pancreatitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/	B	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.17 Surgical tactics for complications of peptic ulcer disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	9	6	PC-1.1 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.18 Surgical tactics for complications of peptic ulcer disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/	9	4	PC-1.1 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.19 Acute gastrointestinal bleeding. Ulcerative bleeding. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Acute gastrointestinal bleeding. Nonulcer bleeding. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	9	6	PC-1.1 PC-1.2 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.20 Acute gastrointestinal bleeding. Ulcerative bleeding. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Acute gastrointestinal bleeding. Non-ulcer bleeding. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/	9	4	PC-1.1 PC-1.2 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.21 Acute non-neoplastic intestinal obstruction. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Acute tumor intestinal obstruction. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	9	6	PC-1.1 PC-3.1 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		

1.22 Acute non-neoplastic intestinal obstruction. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Acute tumor intestinal obstruction. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/	9	2	PC-1.1 PC-3.1 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.23 Peritonitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Sepsis. Definition. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics. /Pr/	9	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.24 Peritonitis. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. Sepsis. Definition. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics. /Ss/	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.25 Sharp abdomen in children. Acute purulentseptic diseases in children. /Pr/	9	6	PC-1.1 PC-3.1 PC-5.1 PC-5.2 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.26 Sharp abdomen in children. Acute purulentseptic diseases in children. /Ss/	9	2	PC-1.1 PC-3.1 PC-5.1 PC-5.2 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.27 Acute intestinal obstruction in children. /Pr/	9	6	PC-1.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.28 Acute intestinal obstruction in children. /Ss/	9	2	PC-1.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.29 Final class for the 9 <sup>th</sup> term of practical classes.	9	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC- 5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1		
1.30 Final class for the 9 <sup>th</sup> term of practical classes.	9	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC- 5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1		

Credit /Mark	9		PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC- 5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1		
<b>Section 2.</b>				L1.1 L2.1 L2.2 L3.1		
2.1 Damage to the extrahepatic gallbladder: the main causes, prevention, diagnosis, treatment. /Lec/	10	2	PC-1.1 PC-3.1 PC-3.3 PC-5.1 PC- 5.2 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.2 Metastatic liver damage. /Lec/	10	2	PC-1.1 PC- 3.2 PC-3.3 PC-3.4 PC- 5.2 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.3 Diverticular disease. /Lec/	10	2	PC-1.1 PC-3.1 PC-3.2 PC-3.4 PC- 5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.4 Chronic pancreatitis - modern view of the surgeon. /Lec/	10	2	PC-1.1 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.5 Surgical aspects of the parasitic diseases treatment. /Lec/	10	2	PC-1.1 PC-3.1 PC-3.2 PC-3.4 PC- 5.2 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.6 Acute bleeding from the digestive tract. /Lec/	10	2	PC-1.1 PC-3.1 PC-3.2 PC-3.3 PC- 5.2 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.7 Modern approaches to the treatment of generalized peritonitis. /Lec/	10	2	PC-1.1 PC-3.1 PC-3.2 PC-3.3 PC-5.1 PC-5.2	L1.1 L2.1 L2.2 L3.1		
2.8 Benign formation of the anal canal. /Lec/	10	2	PC-1.1 PC-1.2 PC-3.1 PC-3.3 PC - 5.2 PC -5.4	L1.1 L2.1 L2.2 L3.1		
2.9 Patient supervision. Case history. Maintaining medical records. /Pr/	10	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.10 Patient supervision. Case history. Maintaining medical records. /Ss/	10	2	PC-1.1 PC-1.2 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		



2.11 Vascular bowel disease. Acute thrombosis and embolism of mesenteric vessels. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, scope of surgery. Postoperative management. /Pr/	10	6	PC-1.1 PC-3.1 PC-5.1 PC-5.2 PC- 5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.12 Vascular bowel disease. Acute thrombosis and embolism of mesenteric vessels. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, scope of surgery. Postoperative management. /Ss/	10	2	PC-1.1 PC-3.1 PC-5.1 PC-5.2 PC- 5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.13 Portal hypertension syndrome. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	10	6	PC-1.1 PC-5.1 PC -5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.14 Portal hypertension syndrome. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/	10	2	PC-1.1 PC-5.1 PC-5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.15 Surgical aspects of the treatment of parasitic diseases: opisthorchiasis, echinococcosis, alveococcosis. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	10	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.16 Surgical aspects of the treatment of parasitic diseases: opisthorchiasis, echinococcosis, alveococcosis. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/	10	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.17 Diseases of the diaphragm. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	10	6	PC-1.1 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		

2.18 Diseases of the diaphragm. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/	10	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.19 Chronic pancreatitis. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Pr/	10	6	PC-1.1 PC-3.1 PC-3.3 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.20 Chronic pancreatitis. Definition. Etiology. Epidemiology. Pathogenesis. Classification. The clinical picture of the disease. Diagnostic errors. Investigation program. Treatment tactics: indications for surgery, choice of surgical access, volume of surgery. Postoperative management. /Ss/	10	2	PC-1.1 PC-3.1 PC-3.3 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.21 Organization of outpatient care. Surgical rooms of the polyclinic, device, equipment, organization of work. Principles of clinical examination of surgical patients. Outpatient surgery centers. Routine surgical care. Medical records. Rules for drawing up certificates of incapacity for work. Health insurance issues. Diagnostics and treatment of surgical diseases in outpatient clinics. /Pr/	10	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.22 Organization of outpatient care. Surgical rooms of the polyclinic, device, equipment, organization of work. Principles of clinical examination of surgical patients. Outpatient surgery centers. Routine surgical care. Medical records. Rules for drawing up certificates of incapacity for work. Health insurance issues. Diagnostics and treatment of surgical diseases in outpatient clinics. /Ss/	10	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.23 Final class. Testing. Medical history presentation. /Pr/	10	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1		
2.24 Final class. Testing. Medical history presentation. /Ss/	10	3		L1.1 L2.1 L2.2 L3.1		
2.25 / Exam /	10	27		L1.1 L2.1 L2.2 L3.1		

Topics /Class type		Term /	Academic	Competences	Literature	Interactive
1	High-tech Surgery /Lec/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
2	Diseases of the colon /Lec/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
3	Diseases of the pancreas /Lec/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
4	Surgery of bulky liver formations /Lec/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
5	Modern principles of surgical infection treatment /Lec/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
6	Gastrointestinal Fistulas /Lec/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
7	Acute and chronic mediastinitis /Lec/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
8	Endocrine surgery. Diseases of the thyroid gland and adrenal glands /Lec/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
9	Diagnosis and treatment of surgical diseases in outpatient clinics. /Pr/	11	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
10	Purulent diseases of the skin and subcutaneous tissue. Purulent diseases of the fingers of the hand. Benign tumors of the skin and subcutaneous tissue. /Ss/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
11	Mammology.Surgical treatment of benign breast diseases. /Pr/	11	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
12	Purulent diseases of the skin and subcutaneous tissue. Purulent diseases of the fingers of the hand Benign tumors of the skin and subcutaneous tissue. /Pr/	11	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	

13	Diagnosis and treatment of surgical diseases in outpatient clinics. /Ss /	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
14	Patient care. /Ss /	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
15	Chronic pancreatitis. /Pr/	11	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
16	Chronic pancreatitis. /Ss/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
17	Diseases of the esophagus. Achalasia of the cardia. Cardiospasm. Cicatricial structures of the esophagus. Diverticula of the esophagus. Reflux disease. /Pr/	11	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
18	Diseases of the esophagus. Achalasia of the cardia. Cardiospasm. Cicatricial structures of the esophagus. Diverticula of the esophagus. Reflux disease. /Ss/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
19	Nonspecific suppurative diseases of the lungs and pleura. /Pr/	11	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
20	Nonspecific suppurative diseases of the lungs and pleura. /Ss/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
21	Acute and chronic mediastinitis. /Pr/	11	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
22	Acute and chronic mediastinitis. /Ss/	11	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
23	Endocrine surgery. /Pr/	11	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
24	Endocrine surgery. /Ss/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	

25	Colon surgery. /Pr/	11	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
26	Colon surgery. /Ss/	11	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
27	Fistulas of the gastrointestinal tract /Pr/	11	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
28	Gastrointestinal fistulas /Ss/	11	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
29	Bariatric Surgery /Pr/	11	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
30	Bariatric Surgery /Ss/	11	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
31	Counter-work/	11	0	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
32	Features of management and treatment of patients with acute and chronic surgical pathology in hospital and polyclinic settings. /Lec/	12	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
33	Osteomyelitis. Fundamentals of purulent bone pathology in children and adults. /Lec/	12	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
34	Modern technologies in surgery. Minimally invasive technologies. Transition to future technologies. /Lec/	12	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
35	Benign diseases of the gastrointestinal tract. the specifics of treatment and diagnosis from the point of view of a surgeon, not an oncologist. /Lec/	12	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	

36	Surgical liver diseases. Issues of modern hepatobiliary surgery. /Lec/	12	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
37	Fundamentals of pediatric urology. Emergency pediatric urology. /Lec/	12	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
38	Acute appendicitis of children. Features of the current. The peculiarities of therapeutic measures. /Lec/	12	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
39	Modern endoscopic surgery. The safety and technical characteristics of endosyncratic operations. X-ray surgical technologies. /Lec/	12	2	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
40	Patient care. Peculiarities of maintaining medical records of surgical patients. /Pr/	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
41	Patient care. Peculiarities of maintaining medical records of surgical patients. /Ss/	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
42	Osteomyelitis. Fundamentals of purulent bone pathology in children and adults. /Pr/	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
43	Osteomyelitis. Fundamentals of purulent bone pathology in children and adults. /Ss/	12	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
44	Modern technologies in surgery. Minimally invasive technologies. Transition to the technologies of the future. / Pr/	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
45	Modern technologies in surgery. Minimally invasive technologies. Transition to future technologies. /Ss/	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
46	Benign diseases of the gastrointestinal tract. the specifics of treatment and diagnosis from the point of view of a surgeon, not an oncologist. /Pr/	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	

47	Benign diseases of the gastrointestinal tract. The specifics of treatment and diagnosis from the point of view of a surgeon, not an oncologist. /Ss/	12	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
48	Surgical liver diseases. Issues of modern hepatobiliary surgery. /Pr/	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
49	Surgical liver diseases. Issues of modern hepatobiliary surgery. /Ss/	12	5	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
50	Fundamentals of pediatric urology. Emergency pediatric urology. /Pr/	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
51	Fundamentals of pediatric urology. Emergency pediatric urology. /Ss	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
52	Acute appendicitis of children. Features of the current. The peculiarities of therapeutic measures. /Pr/	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-5.1 PC-8.2	L1.1 L2.1 L2.2 L3.1	
53	Acute appendicitis of children. Features of the current. The peculiarities of therapeutic measures. /Wed/	12	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1	
54	Modern endoscopic surgery. The safety and technical characteristics of endosyncratic operations. X-ray surgical technologies. /Pr/	12	7	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1	

55	Modern endoscopic surgery. The safety and technical characteristics of endosyncratic operations. X-ray surgical technologies. /Ss/	12	4	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1	
56	The final lesson. /Pr/	12	7	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1	
57	The final lesson. /Wed/	12	6	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1	
59	/Exam/	12	27	PC-1.1 PC-1.2 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5.1 PC-5.2 PC-5.4 PC-8.2	L1.1 L2.1 L2.2 L3.1	

## 5. ASSESSMENT TOOLS

5.1. Tests and tasks

Supplements

5.2. Topics for written papers

Supplements

## 6. Literature

### 6.1. Recommended



6.1.1. Core				
	Authors	Title	Publisher, year	Quant.
L1.1	A. V. Kruchkova, Yu. V. Kondusova, I. A. Poletayeva and others; edited by A. V. Kruchkova.	Care for Surgical Patients	M.: GEOTAR-Media , 2020. Electronic resource	1
6.1.2. Supplementary				
L2.1	Gostishchev V.K.	General surgery [Электронный ресурс] / The manual. - - 220 p.	M.: GEOTAR-Media, 2020. Electronic resource	1
L2.2	Merzlikin N.V.	The Medical History of a Surgical Patient [Электронный ресурс]	M.: GEOTAR-Media, 2018. Electronic resource	1
6.1.3. Course manuals				
L3.1	Gostishchev V. K	General surgery : The manual	M: ГЭОТАР-Медиа, 2015 Electronic resource	1
6.2. Internet resources				
E1	FreeMedicalJournals <a href="http://freemedicaljournals.com">http://freemedicaljournals.com</a>			
E3	MedLine. <a href="http://medline.ru">http://medline.ru</a> .			
E5	PubMed Central (PMC). <a href="http://www.pubmed.com">http://www.pubmed.com</a>			
6.3.1 Software				
6.3.1.1	Microsoft Office			
6.3.2 Information Referral systems				
6.3.2.1	"Garant", "Consultant Plus", "Consultant-region"			
7. LOGISTICAL SUPPORT OF THE DISCIPLINE (MODULE)				
7.1	Classrooms for lecture-type classes, seminar-type classes (practical classes), group and individual consultations, ongoing monitoring and intermediate certification are equipped with standard educational furniture, technical training tools that serve to present educational information			
7.2	Practical classes, group and individual consultations, ongoing monitoring and intermediate certification are conducted in the classroom at the Surgut Design Bureau			
7.3	The list of equipment of the Surgut Design Bureau:			
7.4	Mobile Single Dome Surgical Lamp			
7.5	Palatal surgical aspirator			
7.6	Surgical electrocoagulator			
7.7	Laparoscopic stand,			
7.8	Medical vacuum suction			
7.9	Electrosurgical energy platform			
7.10	Mobile operating table multifunctional electro-mechanical-hydraulic complete set for general surgery			
7.11	Doppler device for transanal hemorrhoidal dearteration			
7.12	Endovideoscopic surgical stand with a set of additional instruments and optics -Headliner			
7.13	Pulse Oximeter			
7.14	Gynecologist.the treatment chair			

7.15	tonometer, stethoscope, phonendoscope, thermometer, medical scales, height meter, anti-shock kit, kit and stowage for emergency preventive and therapeutic measures, electrocardiograph, bactericidal irradiator, anesthetic respiratory apparatus, ventilator, infusomat, postoperative suction device, defibrillator with synchronization function, surgical multifunctional universal surgical table, surgical, microsurgical toolkit, universal system of wound expanders 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 flash light source for endoscopy, 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, pediatric video colonoscope, diagnostic video colonoscope, argon plasma coagulator, endoscopic mucosal resection kit, balloon dilator
7.16	Tools and supplies in an amount that allows students to master the skills required by their professional activities.
7.17	Moscow State University Simulation Center
7.18	Classrooms of the MI simulation center, equipped with phantom and simulation equipment, laboratory instruments and supplies in sufficient quantity:
7.19	Multimedia projector
7.20	Lap Mentor – (laparoscopy);
7.21	GI Mentor – (endoscopy);
7.22	MegaCodeKid mannequin–(child 7 years old for performing resuscitation measures, with the possibility of defibrillation and pacing)
7.23	BabyAnn – (newborn. Laryngeal foreign body)
7.24	A dummy for practicing practical CPR skills ResusciBaby
7.25	A dummy for practicing practical CPR skills ResusciJunior

7.26	NursingKid dummy – (a 7-year-old child with a variable physiology for practicing therapeutic and diagnostic measures)
7.27	Digital auscultation dummy of the heart and lungs .
7.28	A digital dummy simulator of auscultation of the heart and lungs .
7.29	The defibrillator
7.30	The "Intubation Head" simulator.
7.31	Simulator for subcutaneous and intramuscular injections.
7.32	Simulator for intravenous injections.
7.33	The Nursingkid and Nursingbaby simulator.
7.34	A simulator for practicing puncture and drainage of the chest.
7.35	A set of instruments for pleural puncture.
7.36	A simulator for practicing abdominal puncture.
7.37	Trocar, a set of tools.
7.38	Tonometer, phonendoscope.
7.39	Pulse oximeter.
7.40	Negatoscope
7.41	Electrocardiograph electrodes.
7.42	An AMBU bag with a set of face masks.
7.43	Oxygen mask
7.44	Intubation kit
7.45	A set of intubation tubes
7.46	The infusion system
7.47	A set of syringes
7.48	Cubital catheters
7.49	The fixing patch
7.50	Drug Simulators
7.51	Aspirator
7.52	is a set of tools for conicthymia
7.53	Laryngeal mask
7.54	The air compressor
7.55	Vacuum Aspirator
7.56	Infuzomat
7.57	Lineomat
7.58	Artificial lung ventilation device
7.59	The gastric tube
7.60	Nasogastric tube
7.61	A set of catheters for catheterization of the bladder, a medical tray.
7.62	Dressings
7.63	Set of tires
7.64	Medical trays.
7.65	Medical furniture.
7.66	Library of laboratory and instrumental research results
7.67	Roles for standardized patients
7.68	Situational Task Library
7.69	Library of clinical scenarios
7.70	Assessment Sheet Library
7.71	Tools and supplies in an amount that allows students to master the skills required by their professional activities.
7.72	An enema simulator. Esmarch's Circle