

MINISTRY OF EDUCATION AND SCIENCE OF KYRGYZ REPUBLIC
Osh State University International Medical Faculty
Department of « Obstetrics-gynecology & surgical disciplines »

ACADEMIC PROGRAM
(Syllabus)

Specialty	General medicine	Course code	“560001”
Language of instruction	English	Subject	Surgical diseases 2 (Faculty Surgery)
Academic year	2025-2026y	Amounts of credits	3
Teacher	Kurmanaliev Nurlanbek	Semester	7
E-Mail	nkurmanaliev@oshsu.kg	Schedule according to the OSH State University application Student”	+996555911340
Consultations (time/lecture hall)	IMF (08:00-17:00/405,)	Location (building/room)	IMF2, 4 floor, room 405
Form of study (full-time/part-time/evening/distant)	Full-time	Course type: (Basic/elective)	Basic

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Course description:

The discipline of **Surgery** is a field of clinical medicine that studies diseases whose main treatment method is surgery. This is one of the most ancient medical specialties. As a clinical discipline, surgery was continuously becoming more complex and improved/

The purpose of the course:

The purpose of the discipline: The study of faculty surgery by IV-year students is to teach students the ability to diagnose surgical diseases, determine the choice of a method of their treatment and prevention.

Objectives of the discipline:

- To form the clinical thinking of students;
- To teach the implementation of common medical manipulations, first aid skills in acute surgical diseases;
- Provide knowledge about the etiology, pathogenesis and clinical manifestations of diseases and
- Gain skills in providing qualified medical care and prevention of emergencies and complications.

Prerequisites	- anatomy, physiology, histology, normal and pathological physiology, pathological anatomy, pharmacology, first aid, general patient care.	
Post-requirements	-hospital surgery, pediatric surgery, traumatology, obstetrics and gynecology, oncology.	
LO EBP	Competencies	Code of LO of discipline (LOd)and its wording
PO7 – Is able to apply basic knowledge in the field of diagnostic activities to solve professional tasks.	PC-14 - is capable and ready to make a diagnosis based on the results of biochemical and clinical studies, taking into account the course of pathology in organs, systems and in general;	He knows and understands: -Modern diagnostic methods for the most common surgical diseases Is able to: -Collect medical history, conduct general clinical examination of patients with surgical diseases, and prepare medical documentation. Possesses: -Palpation, percussion, and auscultation of the thoracic and abdominal organs. Skills to apply skin sutures, treat wounds, probe the stomach, perform a finger examination of the rectum.
PO8 – Able to apply basic knowledge in the field of therapeutic activities to solve professional problems	PC-17 - is able and ready to provide first medical aid in cases of urgent and life-threatening conditions, and to refer patients for hospitalization on a planned and emergency basis.;	He knows and understands: - Basic rules of antisepsis and asepsis, the main groups of antisepsis. Is able to: - use medical instruments, knows how to store and sterilize them if necessary. Possesses: -The technique of working with surgical instruments -perform punctures of joints and cavities - to apply surgical stitches.
PO11 - He is able to apply basic knowledge in the field of scientific research to solve professional problems.	PC-31 - is able and willing to analyze and publicly present medical information based on evidence-based medicine;	Knowledge: Fundamentals of scientific research methodology in medicine, ethical principles, statistical methods of data analysis.

		Is able to: Conduct a literature search, formulate hypotheses, analyze research results to solve clinical problems. Possess: Techniques for collecting and processing data in medical experiments, presentation of research results.
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Calendar and thematic plan of lectures

№ week.	Topic name	Number of hours	Marks			
			Visit	Test (for TC), oral, written survey	keeping a workbook	Total
	1- module					
1.	Diseases of thyroid gland.	2	1	2	1	4
2.	Congenital heart diseases. Eisenmenger complex, tricuspid atresia, coarctation of the aorta, transposition of blood vessels. Tetrad, triad, pentad of Fallot.					
3.	Congenital heart diseases.PDA,VSD AND ASD.					
4.	Arterial disorders. Anuerysm and types of aneurysm,Abdominal aortic aneurysm.	2	1	2	1	4
5.	Obliterans thrombanginitis. Raynaud's disease.	2	1	2	1	4
6.	Diseases of veins. Varicose veins.	2	1	2	1	4
7.	Deep vein thrombosis and pulmonary embolism	2	1	2	1	4
8.	Surgical anatomy of mediastinium.Mediastinitis	2	1	2	1	4
9.	Surgical anatomy of thorax region. Physiology of lungs & pleura. Pleural effusion. Pneumothorax and its types. Hemothorax	2	1	2	1	4
	Total	14	1	2	1	4

Calendar and thematic plan of practical classes

№ week.	Topic name	links	Number of hours	Marks			
				Visit	Test (for TC), oral, written survey	keeping a workbook	Total
	1- module						
1.	Diseases of thyroid gland. Endemic goiter.	https://youtu.be/_BuTCrvz-TA?	2	1	2	1	4

	Thyrotoxicosis.Graves' disease. Hashimoto thyroiditis. Riedel's thyroiditis.	si=O4x1RR_oicaDIMAw					
2.	Diseases of parathyroid gland. Primary and secondary hyperparathyroidism	https://youtu.be/_BuTCrvz-TA? si=O4x1RR_oicaDIMAw	2	1	2	1	4
3.	Heart surgery – general characteristics Acquired heart diseases (stenosis and regurgitation). Surgical treatment.	https://youtu.be/Iow9etJ4mqo? si=S_bk416DG_nqB5SE	2	1	2	1	4
4.	Congenital heart diseases. Eisenmenger complex, tricuspid atresia, coarctation of the aorta, transposition of blood vessels. Tetrad, triad, pentad of Fallot.	https://youtu.be/pNn7plCPAvU? si=aiSHyKvvyZxBUjhY	2	1	2	1	4
5.	Congenital heart diseases.PDA,VSD AND ASD.	https://youtu.be/sqk9ZuYLEDE? si=5VGfA3C7MQyaAD5k	2	1	2	1	4
6.	Arterial disorders. Aneurysm and types of aneurysm,Abdominal aortic aneurysm.	https://youtu.be/4QvHj5wXdWA? si=kU6z2Pmpe-9WcAN3	2	1	2	1	4
7.	Obliterans thrombnginitis. Raynaud's disease.	https://youtu.be/uCfzd1W99lk? si=L1JdbrpDH0fiqLYT	2				
8.	Aortic dissection. CABG	https://youtu.be/4QvHj5wXdWA? si=VxOc9ijJxNJRLf6	2	1	2	1	4
9.	Diseases of veins. Varicose veins.	https://youtu.be/fG692_BUrm8? si=rDt2-PxYnRf7dTxO	2	1	2	1	4
10.	Deep vein thrombosis and pulmonary embolism	https://youtu.be/jJ66zfDy2TM? si=pMe9R8-yNzIXRtmv	2	1	2	1	4
11.	Surgical anatomy of mediastinum. . chronic mediastinitis	https://youtu.be/_S-e-JqMrHU? si=eJzYD8A83nUSLrFK	2	1	2	1	4
12.	Surgical anatomy of thorax region. physiology of lungs & pleura. Bronchiectasis. Empyema of lungs	https://youtu.be/XzmvG3pgRVo? si=zUshocClSaXbBwrp	2	1	2	1	4
13.	Pleural effusion. Pneumothorax and its types.	https://www.youtube.com/watch? v=EAg-hXN8TSs	2	1	2	1	4
14.	Hemothorax	https://youtu.be/tFYAj0r823M? si=7Qp4a9X5cgJwtb2b	1				
	Total		22	1	2	1	4
	Exam						50

Thematic plans for students' independent work

	Topic	Task for ISW	Ho urs	Ma rks	Reference	Deadli ne
1	Preoperative preparation and postoperative management of surgical patients. Clinical anatomy of the abdomen.	Making diagram	3	5	https://ibooks.oshsu.kg/book/? lg=1&id_parent=376&id1=1883 &id4=2.2.81.1#books01919	1 nd week
2.	Endemic goiter – definition, distribution	PPT	3	5	https://youtu.be/	2 nd

	sites, classification, etiopathogenesis, clinic, prevention and treatment				MKQ2YfsSSOY?si=2SM35ucAxIQCp6n	week
3	Congenital heart diseases.	Making diagram	3	5	https://youtu.be/Kdl96iHMaPs?si=agjVg7kKbtJjqGO2	3 th week
4	Prevention of vascular diseases.	solving situational case study cards(5)	3	5	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1883&id4=2.2.81.1#books01919	4 th week
5	Aortic coarctation	PPT	3	5	https://youtu.be/0n3zTrZ_1Wk?si=QnWvKA3KZt0GEdW-	5 th week
6	Methods of surgery – closed and open methods, commissurotomy and prosthetics of heart valves.	referat	3	5	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1883&id4=2.2.81.1#books01919	6 th week
7	Transplantation	Presentation	3	5	https://youtu.be/8HB_clfPgTY?si=Y2yguqYhVUGslbjM	7 th week
8	Inguinal hernia & types	Presentation	3	5	https://youtu.be/wRSBLQtgv5w?si=UC_Ly-2Vz1z7XEf_	8 th week
9	Thyroiditis, strumitis – definition, clinic, complications, types of chronic thyroiditis (Riedel's goiter, Hashimoto's goiter), treatment	Referat	3	5	https://youtu.be/fzplcC8qeg8?si=IHDxmZdPa6f7WWwe	9 th week
10	Pulmonary embolism – frequency, clinic and treatment	Making diagram	3	5	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1885&id4=2.2.81.1#books01920	10 th week
11	Acute arterial thrombosis – degrees and treatment	PPT	3	5	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1884&id4=2.2.81.1#books01918	11 th week
12	Aortic bifurcation embolism – etiopathogenesis, clinic and treatment	Making diagram	3	5	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1883&id4=2.2.81.1#books01919	12 th week
13	Risk factors and prevention of thromboembolic complications.	solving situational case study cards(5)	3	5	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1886&id4=2.2.81.1#books01921	13 th week
14	Anatomy, topography and physiology of the lungs and pleura.	PPT	3	5	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=285&id4=#books00282	14 th week
15	Basic, additional diagnostic methods, diagnostic operations on the chest.	referat	3	5	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1883&id4=2.2.81.1#books01919	15 th week

	Topic	Task for ISW	Hours	Assessment tools	Marks	Reference	Deadline
1	<i>Achalasia cardia (etiology, pathogenesis, classification, clinic, complications, diagnosis, diff/diagnosis, treatment).</i>	PPT	2	Presentation	5	1. Bailey Love's Short Practice of Surgery https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1883&id4=2.2.81.1#books01919	29.09-04.10.25
2	<i>Anatomy, topography of the diaphragmatic nerve, vagus nerve, thoracic lymphatic duct, unpaired and semi-paired veins, borderline sympathetic trunk.</i>	PPT, case study, create a crossword puzzle	2	Presentation (explanation), task solution (making cards), crossword puzzle	5	1. Oxford Handbook of Operative Surgery https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1884&id4=2.2.81.1#books01918	20.10-25.10.25

name	author	year of issue	link
1. Principles & Practice of A Davidson Title 6th Edition Surgery	O. James Garden, Andrew W. Bradbury, John L.R. Forsythe, Rowan W. Parks	2012	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1885&id4=2.2.81.1#books01920
2. Oxford Handbook of Operative Surgery	Anil Agarwal, Neil Borley, Greg McLatchie	2017	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1884&id4=2.2.81.1#books01918
3. Bailey Love's Short Practice of Surgery	Henry Hamilton Bailey, Robert J. McNeill Love	2018	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1883&id4=2.2.81.1#books01919
4. Surgical Care at the District Hospital	Jean C. Emmanuel	2000	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=1886&id4=2.2.81.1#books01921
5. Manipal manual of Surgery 4th edition	Rajagopal Shenoy, Anitha Shenoy	2014	https://ibooks.oshsu.kg/book/?lg=1&id_parent=376&id1=285&id4=#books00282

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