

**MINISTRY OF HEALTH & EDUCATION OF KYRGYZ REPUBLIC**  
**OSH STATE UNIVERSITY**  
**INTERNATIONAL MEDICAL FACULTY**  
**DEPARTMENT OF OBSTETRICS, GYNECOLOGY & SURGICAL DISEASES**

**STUDENT TRAINING PROGRAM**

(Syllabus)

<b>Specialty</b>	<b>MEDICINE</b>	<b>Course code</b>	<b>560001</b>
<b>Language</b>	<b>English</b>	<b>Subject</b>	<b>Surgical diseases ( general surgery)</b>
<b>Academic year</b>	<b>2025</b>	<b>Total credits</b>	<b>5</b>
<b>Lecturer</b>	<b>Syed Ali Abbas Rahat</b>	<b>Semester</b>	<b>5<sup>th</sup> semester</b>
<b>E-Mail</b>	<a href="mailto:alirahat7844@gmail.com"><u>alirahat7844@gmail.com</u></a>	<b>Schedule according to program “OshGU Student”</b>	
<b>Consultation (time/room)</b>	<b>IMF (8.00-17.00 /404)</b>	<b>Place (authorial number)</b>	<b>Monueva 5 room №404</b>
<b>Form of study (daytime/evening/ distance learning)</b>	<b>Day time</b>	<b>Course type: (compulsory/elective)</b>	<b>Compulsory</b>

Osh, 2025

### *Characteristics of course:*

Introduction to Surgery – propedeutic study

### *Aim of course :*

Student will be able to know History development of surgery; Patient history and symptoms of surgical diseases and its value for establishment of proper diagnosis; Basic principles of clinical examination; Value of paraclinic examinations – lab. tests; X ray, CT, US, MRI, endoscopy and nuclear medicine techniques for improvement of clinical diagnosis in acute and chronic surgical diseases; Principles of antisepsis and sepsis; Disinfection and sterilisation in surgical ward and in all health care facilities; Preoperative management of the patient; Basic methods of anaesthesia; Types of anaesthesia; Indications and contraindications for the operation; Basic operative procedures – terminology, classification, description; Postoperative care; General principles of postoperative care; Operative wounds, types of wounds, healing of wounds; Thromboembolism in surgery; Thrombophlebitis, phlebotrombosis, pulmonary embolism, air and fat embolism; Bleeding in surgery; Non-surgical diseases – cardiovascular, respiratory, metabolic, hepatocellular, renal, endocrine, neurologic, haematological, immunological in correlation to surgical procedure; Blood derivatives and transfusions for urgent and elective surgery.

Pre requisites	<i>human anatomy, histology, normal physiology, pathological physiology, pathological anatomy, bioethics, microbiology, medical radiology, pharmacology, and propaedeutic of internal diseases.</i>
Post requisites	<i>resuscitation and intensive care, faculty, hospital surgery, neurosurgery, traumatology and military field surgery</i>
Co-requisites	

Learning outcomes of the discipline		
By the end of course the student:		
<i>CODE SR FOR GEP and its formulation</i>	<i>CODE SR (SR d) and its formulation</i>	<i>COMPETENCIES GEP</i>
<i><b>SR -5</b> – Capable of assessing morphofunctional, physiological states and pathological processes to solve professional problems</i>	<i><b>SR d</b> Able and ready to conduct and interpret the survey, physical examination, clinical examination, the results of modern laboratory and instrumental studies, write a medical card of the outpatient and inpatient.</i>	<i>- is able and ready to conduct and interpret a survey, physical examination, clinical examination, the results of modern laboratory and instrumental studies, write a medical record of an outpatient and inpatient adult and child (<b>PC-5</b>);</i>
		<i><b>IK-2</b> - is capable and ready to use information, bibliographic resources and information and communication technologies, taking into account the basic requirements of information security;</i>
<i><b>SR-11</b>-Able to apply basic knowledge in the field of research activities to solve professional problems</i>		<i>- able and willing to apply aseptic and antiseptic methods, use medical instruments, and master patient care techniques (<b>PC-6</b>);</i>

## CALENDAR THEMATIC PLAN OF THE DISCIPLINE LECTURES

<i>No &amp; TOPICS</i>	<i>lecture No</i>	<i>Plan &amp; control questions</i>	<i>hrs</i>	<i>marks</i>	<i>literature</i>	<i>Technology</i>	<i>weeks</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>		<i>6</i>	<i>7</i>	<i>8</i>
<b>Topic 1.</b> <i>History of surgery .History taking of surgical patients. Laboratory diagnosis of surgical patients</i> <a href="https://www.youtube.com/watch?v=m5-z14bOT0k&amp;t=110s">https://www.youtube.com/watch?v=m5-z14bOT0k&amp;t=110s</a>	1	<b>Lecture plan:</b> 1. History of the development of surgery. 2. Difference of surgery from other disciplines. 3. Structure of the surgical service. 4. The value of the course of general surgery, its goals and objectives. 5. Deontology in surgery. <b>Control questions:</b> 1. The subject and tasks of general surgery .. 2. The main stages of the development of surgery. 3. History of antiseptics and asepsis.	2		1, 3, 8, 12, 17	PPt, videos	1 <sup>st</sup>
<b>Topic 2.</b> <i>Asepsis (definition, types, sterilization of instruments, autoclave, preparation of surgeon's hands)</i>	2	<b>Lecture plan:</b> 1. Aseptic, antiseptic - definition, history of development 2. Sources and routes of infection 3. Mechanical antiseptic - toilet wound, surgical treatment of wounds 4. Physical antiseptics: hygroscopic dressing material, hypertensive solutions. <b>Control questions:</b> 1. Cleaning wounds, applying rays, laser and ultraviolet radiation in the treatment of purulent wounds. 2. Biological antiseptic - definition. 3. Antibiotics, the main groups of antibiotics, complications of antibiotic therapy. 4. Antibiotic prophylaxis.	2		1, 2, 7, 12	PPt, videos	2 <sup>nd</sup>
<b>Topic 3</b> <i>Antiseptic, (mechanical and physical, chemical, biological).</i>	3	<b>Lecture plan:</b> 1. Mechanical antiseptic - toilet wounds, surgical treatment of wounds 2. Physical antiseptic: hygroscopic dressing, hypertonic solutions. <b>Control questions:</b> 1. Evacuation of wounds, the use of ultrasound, laser and ultraviolet irradiation in the treatment of purulent wounds. 2. Biological antiseptic - definition. 3. Antibiotics, the main groups of antibiotics, complications of antibiotic therapy. Antibiotic prophylaxis.	2		1, 2, 7, 12	PPt, videos	3
<b>Topic 4.</b> <i>Hemorrhage (definition, classification, clinical picture, complications, ways and methods of stopping).</i> <a href="https://www.youtube.com/">https://www.youtube.com/</a>	4	<b>Lecture plan:</b> 1. Bleeding - definition, classification. 2. Compensatory-adaptive mechanisms of the organism in acute blood loss (vascular, tissue, cardiac, respiratory, violation of the rheological properties of the blood). 3. Local symptoms of bleeding (internal and external). 4. Common symptoms of bleeding (internal and external).	2		1, 2, 7, 12	PPt, videos	4

<a href="#">watch?v=cGIVYpjeMsk</a>		5. Assessment of the volume of blood loss, distribution of bcc in the body. <b>Control questions:</b> 1. Blood coagulation system (plasma mechanism). 2. The mechanism of blood clotting. 3. Assessment of the volume of blood loss, distribution of bcc in the body. 4. <i>The shock index for Allover</i>					
<b>Topic 5.</b> <i>Blood transfusion (blood group, Rhesus factor compatibility definition, indications, principles of blood transfusion). Methods, techniques and equipment Transfusion. Complications of blood transfusion</i> <a href="https://www.youtube.com/watch?v=-80W_DDCqYW">https://www.youtube.com/watch?v=-80W_DDCqYW</a>	5	<b>Lecture plan:</b> 1. Organization of transfusion services. Donation. Group of donors, donor survey. 2. Concept of the blood group 3. Mechanism of interaction "antigen-antibody". 4. Determination of the blood group according to the ABO system, the classical ABO blood groups.  <b>Control questions:</b> 1. Basic antigenic blood systems. Cell antigens: erythrocyte, leukocyte, platelet. 2. Blood grouping according to the ABO system, classical ABO blood groups. 3. Possible errors in determining blood groups.	2		2, 4, 12	PPt ,vide os	5
<b>Topic no 6</b> <i>Blood and blood products</i>		<b>Lecture plan:</b> Types of whole blood - fresh whole blood donated blood, canned donated blood, autologous blood. Blood products. Complex preparations - albumin, protein., cryopreceptate, prothrombin complex, fibrinogen, thrombin, hemostatic sponge, fibrinolysin. <b>Control questions:</b> Blood substitutes of hemodynamic action. Derivatives of dextran - polyglukin, reopoliglukin. Detoxification solutions - hemodesis, neohemodesis, polydez. Parenteral blood substitutes - protein preparations, fat emulsions, carbohydrates	2		2, 3, 7, 11	PPt ,vide os	6
<b>Topic no 7</b> <b>Transfusion Therapy. Enteral and parenteral nutrition</b> <a href="https://www.youtube.com/watch?v=BpOLdX3cDck">https://www.youtube.com/watch?v=BpOLdX3cDck</a>		Plan 1.Explain the concept of circulating blood volume. 2. What are the methods for determining circulating volume and the fluids used in it. 3. explain enteral nutrition and its indications 4.Explain parenteral nutrition and its indications along with complications Assessment: oral , T, ST.	2		2, 3, 7, 11	PPt ,vide os	
<b>Topic no 8</b> <i>Hypovolemic shock</i> <a href="https://www.youtube.com/shorts/gvVBMvLyROk">https://www.youtube.com/shorts/gvVBMvLyROk</a>		<b>Lecture Plan:</b> Causes and signs of hypovolemic shock. Diagnosis and treatment of hypovolemic. The main drugs for the correction of hypovolemic. <b>Control questions:</b>	2		2, 3, 7, 11	PPt ,vide os	8

		Methods for determining the volume of circulating blood Degrees of hypovolemic shock					
<b>Topic No 9</b> <i>General characteristics of anaesthesiology. general anaesthesia</i> <a href="https://www.youtube.com/watch?v=J4ounHGT-1M">https://www.youtube.com/watch?v=J4ounHGT-1M</a>	6	<b>Lecture plan:</b> 1. Anesthesiology - Definition and Basic Concepts 2. Operational stress. 3. Premedication and its meaning. 4. General anesthesia. Theories of anesthesia. 5. Principles of an anesthesia device. <b>Control questions:</b> 1. Local anesthesia. 2. Terminal anesthesia. 3. Infiltration anesthesia. 4. Conduction anesthesia. 5. Epidural anesthesia. 6. Spinal anesthesia. 7. Novocaine blockades, general rules	2		2, 3, 7, 11	PPt, videos	9
<b>Topic no 10</b> <i>Local anesthesia. Regional anesthesia: spinal and epidural anesthesia.</i> <a href="https://www.youtube.com/watch?v=NLnA1LNikeQ">https://www.youtube.com/watch?v=NLnA1LNikeQ</a>		Plan. 1. Explain the concept of Regional Anesthesia. 2. Describe the technique of spinal anesthesia. 3. Explain what are indications and contraindications for spinal anesthesia.	2		2, 3, 7, 11	PPt, videos	
<b>Topic 11</b> <i>Fundamentals of radiation diagnosis, radiation diagnosis methods, ionizing radiation, biological effects of ionizing radiation. Structure and organization of the departments of radiation diagnosis.</i>	7	<b>Lecture plan:</b> 1. Physical basis of radiation diagnosis. 2. Types and characteristics of ionizing radiation used in medicine. 3. Units of measurement of radioactivity, energy of radiation, dose of radiation. 4. Clinical dose and its methods. Individual dosimetry. 5. Structural units of the department of radiation diagnostics. 6. Radiation protection of personnel and patients, labor protection measures. SDA of professional exposure. <b>Control questions:</b> 1. Tell us about the structure of the X-ray tube and the principle of the formation of an x-ray image. 2. List the most important properties of X-rays. 3. Tell us the basic principles of obtaining an x-ray image.	2		1, 3, 15, 16	PPt, videos	11
<b>Topic no 12</b> USG, CT Scan, MRI and endoscopic procedures of GIT	2.	1 Densitometry of computer images. Absorption coefficient. 2. What are the advantages of CT compared with conventional X-ray tomography. 3. Protection measures and safety precautions when working with ionizing radiation	2		2, 3, 7, 11	PPt, videos	
<b>Total Model 2</b>	2						
<b>Total</b>	12		24				12

							week
--	--	--	--	--	--	--	------

### PRACTICAL CLASSES

<i>Nº &amp; topics</i>	<i>Sem Nº</i>	<i>Questions</i>	<i>hrs</i>	<i>marks</i>	<i>literature</i>	<i>Technology</i>	<i>weeks</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>		<i>6</i>	<i>7</i>	<i>8</i>
<b>Model</b>							
<b>Topic 1.</b> History of surgery .History of surgical patients. Laboratory diagnosis of surgical patients <a href="https://www.youtube.com/watch?v=m5-z14bOT0k&amp;t=110s">https://www.youtube.com/watch?v=m5-z14bOT0k&amp;t=110s</a>		Plan 1.Tell the history of the development of surgery. 2.Distinguish the subject of surgery from other disciplines. 3. Describe the structure of the surgical service. 4.Discuss deontology in surgery. 5. Tell the history of antiseptics and asepsis. 6.. Tell us the features of the examination of surgical patients. 7.. Describe the history writing scheme  Assessment: oral , T, ST.	2		1, 3, 8, 12, 17	COMP, Power point ,patients, operations	
<b>Topic 2</b> Asepsis(defination, types , sterilization of instruments ,autoclave, preparation of surgeon hands and operation theatre )		Plan 1. Explain the concept of asepsis 2. Explain the main ways of spreading the infection. 3. Discuss the prevention of airborne infection. 4. Describe the structure of the operating unit, the principle of zoning, the procedure for work, types of cleaning. 5.Classify methods of sterilization . 6. Explain pre-sterilization preparation of surgical instruments (disinfection, washing, drying). 7. Describe the quality control of pre-sterilization treatment. 8.Preparation of the hands of the surgeon Assessment: oral , T, ST.	2		2, 3, 5, 11, 16	COMP, Power point ,patients, operations	
<b>Topic 3</b> Antisepsis (mechanical , physical, biological and chemical )		1. Mechanical antiseptic - toilet wounds, surgical treatment of wounds 2. Physical antiseptic: hygroscopic dressing, hypertonic solutions.  <b>Control questions:</b> 1. Evacuation of wounds, the use of ultrasound, laser and ultraviolet irradiation in the treatment of purulent wounds. 2. Biological antiseptic - definition. 3. Antibiotics, the main groups of antibiotics, complications of antibiotic therapy. Antibiotic prophylaxis.	2		2, 3, 5, 11, 16	COMP, Power point ,patients, operations	
<b>Topic 4</b> Suture materials. Types of suture material <a href="https://www.youtube.com/watch?v=kP9LXa3LttY&amp;t=33s">https://www.youtube.com/watch?v=kP9LXa3LttY&amp;t=33s</a>		Plan 1. Tell us what suture material is. 2. Requirement for suture material 3.Classify suture materials 4. Tell us how to sterilize suture material. 5. Describe the quality control of suture sterilization Assessment: oral , T, ST	2		1, 3, 8, 12, 17	COMP, Power point ,patients, operations	

<b>Topic 5</b> <i>Hemorrhage: definition, causes, classification, clinic, diagnosis, complications.</i> <a href="https://www.youtube.com/watch?v=cGIVYpjeMsk">https://www.youtube.com/watch?v=cGIVYpjeMsk</a>		Plan. 1.Explain the concept of bleeding. 2. List and explain the symptoms of bleeding (internal and external). 3. Estimate the volume of blood loss, distribution of total circulating in the body. 4. Tell us how to determine bcc and blood loss (by specific weight of blood, hemoglobin and hematocrit). 5. Discuss clinical symptoms with varying degrees of blood loss. 6.. Discuss clinical symptoms with varying degrees of blood loss. 7. Tell us the diagnostic methods for bleeding. 8. List the complications of bleeding and their prevention and treatment methods Assessment: oral , T, ST.	2		2,3,7, 11	Comp , power point
<b>Topic 6</b> <i>Hemorrhage: Ways and methods to stop bleeding. Temporary &amp; permanent methods to stop of bleeding.</i>		Plan. 1. Tell us how to determine bcc and blood loss (by specific weight of blood, hemoglobin and hematocrit). 2. Discuss clinical symptoms with varying degrees of blood loss. 3. Discuss clinical symptoms with varying degrees of blood loss. 4. Tell us the diagnostic methods for bleeding. 5. List the complications of bleeding and their prevention and treatment methods Assessment: oral , T, ST.	2		2, 3, 7, 11	COM P,Pow er point, patients, operations
<b>Topic 7</b> <i>Blood &amp; blood products.</i>		Plan 1. Classify whole blood types - fresh blood donor whole blood, canned donor blood, autologous blood. 2. List the blood products. Preparations of complex action - albumin, protein. 3. <i>Explain about blood substitutes for parenteral nutrition - protein preparations, fatty emulsions, carbohydrates.</i> Assessment: oral , T, ST.	2		1, 3, 5, 9, 11	COM P,Pow er point, patients, operations
<b>Topic8</b> Blood transfusion (blood grouping & RH factor definition, cross matching , indications &contraindications of blood transfusion <a href="https://www.youtube.com/watch?v=BpOLdX3cDck">https://www.youtube.com/watch?v=BpOLdX3cDck</a>		Plan: 1.Explain the concept of donation. Group of donors, donor survey. 2.Discover the concept of the blood group 3.Explain the mechanism of interaction of "antigen-antibody". 4. Describe the definition of the blood group. 5. <i>Diescribe possible errors in determining blood groups.</i> Assessment: oral , T, ST..	2		2, 4, 8, 13, 14	COM P,Pow er point, patients, operations
<b>Topic 9</b> <i>Blood transfusion (Methods &amp; techniques of blood transfusion Complications of blood transfusion and its types).</i> <a href="https://www.youtube.com/watch?v=-">https://www.youtube.com/watch?v=-</a>		Plan: 1. Describe methods for determining the blood group and Rh factor, the procedure for carrying out, the interpretation of the results. 2. Tell the definition of blood groups in a cross-sectional way, the procedure for the conduct, the interpretation of the results. 3.Explain the definition of blood groups with monoclonal antibodies, the procedure for carrying out, the interpretation of the results.	2		1, 3, 15, 16	COM P,Pow er point, patients, operations



<a href="#">80W_DDCqYw</a>		<p>4. Explain reasons for the complication of blood transfusion.</p> <p>5. List the types of complications of blood transfusion.</p> <p>6. What is the first aid for the occurrence of post transfusion reaction</p> <p>Assessment: oral , T, ST..</p>				
<b>Topic 10</b> <i>Transfusion therapy. Enteral and parenteral nutrition</i> <a href="https://www.youtube.com/watch?v=BpOLdX3cDck">https://www.youtube.com/watch?v=BpOLdX3cDck</a>		<p>Plan</p> <p>1. Explain the concept of circulating blood volume.</p> <p>2. What are the methods for determining circulating volume and the fluids used in it.</p> <p>3. explain enteral nutrition and its indications</p> <p>4. Explain parenteral nutrition and its indications along with complications</p> <p>Assessment: oral , T, ST.</p>	2		1, 3, 8, 12, 17	COM P, Power point, patients, operations
<b>Topic 11</b> <i>Hypovolemic shock . Types of Shock</i> <a href="https://www.youtube.com/shorts/gvVBMylvROk">https://www.youtube.com/shorts/gvVBMylvROk</a>		<p>Plan</p> <p>1. Explain the hypovolemic shock</p> <p>2. Causes and signs of hypovolemic shock</p> <p>3. Explain diagnosis and treatment of hypovolemic shock.</p> <p>Assessment: oral , T, ST.</p>	2		1, 3, 4, 9, 11	COM P, Power point, patients, operations
<b>Topic 12</b> <i>General characteristics of anesthesia and ICU. General anesthesia. Observation of the airway during anesthesia. Monitoring and care during anesthesia.</i> <a href="https://www.youtube.com/watch?v=J4ounHGT-1M">https://www.youtube.com/watch?v=J4ounHGT-1M</a>		<p>Plan:</p> <p>1. Explain the concept-Anesthesiology.</p> <p>2. List the types of anesthesia.</p> <p>3. Explain about premedication and its meaning.</p> <p>4. What are the stages of anesthesia.</p> <p>Assessment: oral , T, ST.</p>	2		2, 4, 11, 17	COM P, Power point, patients, operations
<b>Topic 13</b> <i>Local anesthesia. Regional anesthesia: spinal and epidural anesthesia.</i> <a href="https://www.youtube.com/watch?v=NLnAILNikeQ">https://www.youtube.com/watch?v=NLnAILNikeQ</a>		<p>Plan.</p> <p>1. Explain the concept of Regional Anesthesia.</p> <p>2. Describe the technique of spinal anesthesia.</p> <p>3. Explain what are indications and contraindications for spinal anesthesia.</p> <p>Assessment: oral , T, ST.</p>	2		1, 3, 8, 12, 17	COM P, Power point, patients, operations
<b>Topic no 14</b> <i>General principles of resuscitation. Critical condition of the body and its control. CPR and its protocol</i> <a href="https://www.youtube.com/watch?">https://www.youtube.com/watch?</a>		<p>Plan.</p> <p>1. Explain the principles of resuscitation in critical condition</p> <p>2. What is CPR and its protocol</p> <p>3. What is BLS and its protocol</p>	2		1, 3, 8, 12, 17	COM P, Power point, patients, operations

<a href="#">v=sXWtIsXjYcs</a>							
<b>Topic no 15</b> <b>Surgical operation,</b> <b>types of surgical</b> <b>operation</b>			2				
<b>Topic 16</b> <i>Preoperative period.</i> <i>Preparation of</i> <i>patient for operation.</i> <i>Post-operative period</i>		Plan 1. Describe the preoperative preparation, goals and objectives. 2.Explain stages of surgical intervention - surgical access, surgical reception, completion of the operation. 3. List the main intraoperative complications - bleeding, organ damage. 4. Tell us how the preoperative preparation of an emergency and planned surgical patient for surgery is carried out. 5. Describe what is postoperative period. 6. What are the goals and objectives of Postoperative period. 7. List possible postoperative complications Assessment: oral , T, ST.	3			COM P,Power point, patients, operations	
<b>Topic 17</b> Radiological diagnosis. History. Classification. X-rays and its side effects.		Plan: 1. Describe the physical foundations of radiation diagnostics. 2. Classify the types and characteristics of ionizing radiation used in medicine. 3. Determine the units of measurement of radioactivity, radiation energy, radiation dose. 4. X-ray cabinet device. 5. Give the concept of radiation protection of personnel and patients, labor protection measures. 6. Basic rules for occupational exposure.  Assessment: oral , T, ST.	3		1, 3, 11, 17	COM P,Power point, patients, operations	
<b>Total model</b>							
<b>TOTAL :</b>			<b>36</b>				

## ***Work of students***

	Topic	Topic for teacher	hrs	Оценочные средства	points			
1	Examination of surgical patients. Writing history of patient.	Write a surgical history of patient	4	Presentation	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/">https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/</a>	404	2 <sup>nd</sup> week

						<a href="https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">OConnell-McCaskie-Sayers/p/book/9780367548117</a>		
2.	<b>Mechanical antiseptics (surgical treatment of wounds), Physical antiseptics (drainage of wounds, types of surgical drains).</b>	Explain mechanical and physical antiseptics?	4	Presentation And PPT	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	3 <sup>rd</sup> week
3	Biological antiseptics: proteolytic enzymes, preparations for passive immunization. Methods of stimulation of nonspecific resistance, drugs that stimulate nonspecific immunity.	Compose and display a list of biological antiseptics	4	Table form	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	4 <sup>th</sup> week
4	Autoclave. Control of sterilization.	Draw a schematic diagram of the Autoclave device.	4	Diagram , chart	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	5 <sup>th</sup> week
5	<b>Suture materials. Types of suture material</b>	<b>Demonstration on a kit</b>	4	<b>Presentation plus demonstration</b>	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	6 <sup>th</sup> week

						<a href="#">Sayers/p/book/9780367548117</a>		
6	Determination of blood groups by the cross method, monoclonal antibodies. Methods for determining the Rh factor.	Demonstration on slide	4	Referat plus demonstration	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	6 <sup>th</sup> week
7	Methods of temporary and final stoppage of bleeding.	Demonstration of various methods	4	Referat	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	7 <sup>th</sup> week
8	Mechanical and physical methods for the final stop of bleeding. Embolization of vessels, effects of low and high temperature	Presentation	4	Presentation	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	7 <sup>th</sup> week
9	Surgical operation. Types of surgical operation. Positioning of patient during operative procedure	Various types of operations and patient positioning	4	Diagrams , chart	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	8th week
10	Laparoscopic Operations.	Take part in laparoscopic procedure.	4	Presentation	10	Bailey & Love Short practice of surgery 28th	404	8 <sup>th</sup> week

	Diathermy. Types. Indications and contraindications					edition(2023) <a href="https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>		
11	Anesthesiology --- the meaning of premedication, the theory of anesthesia.	Explain whole general anesthesia and show intubation	4	MCQS	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	9 <sup>th</sup> week
12	Local anesthesia	Explain whole local anesthesia	4	presentation	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	9 <sup>th</sup> week
13	Epidural and spinal anesthesia	Demonstrate technique	4	Referat and chart	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	10 <sup>th</sup> week
14	General principles of resuscitation . Critical condition of the body and control.	Demonstrate CPR in dimedus	4	Chart with diagrams	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailley--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	10 <sup>th</sup> week

						<a href="https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">28th-Edition/ OConnell- McCaskie- Sayers/p/book/ 9780367548117</a>		
15	The device and organization of the work of the departments of radiation diagnosis. Principles of anti-radiation protection.	Participate in radiology department	4	Presentation	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	11 <sup>th</sup> week
16	USG, CT scan	Participate in radiology department	4	Diagrams of USG & CT scan	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	11 <sup>th</sup> week
17	MRI	Participate in radiology department	4	Diagrams of MRI	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	12 <sup>th</sup> week
18	Endoscopic of GIT.	Participate in radiology department	4		10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.rouledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	404	12 <sup>th</sup> week

**Plan of organization ISW(teacher based) for teacher**

	Тема СРСП	Задание для СРСП	Час ы	Оценочные средства	Ба лл	Образовател ьные ресурсы	Ауд.	Срок сдачи
1	<i>Suture materials. Types of suture material.</i>	Show how to place sutures on the skin.	2	presentation	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.routledge.com/Bailey-Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.routledge.com/Bailey-Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	403	29.09-05.10.24
2	<i>Mechanical antiseptics (surgical treatment of wounds),</i>	PPT	2	presentation	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.routledge.com/Bailey-Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.routledge.com/Bailey-Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	403	20.10-26.10.24
3	<i>Methods of temporary and final stoppage of bleeding.</i>	Demonstrate methods to stop temporary bleeding	2	presentation	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.routledge.com/Bailey-Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.routledge.com/Bailey-Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	403	17.11-23.11.24
4	<i>General principles of resuscitation. Critical condition of the body and control.</i>	Demonstrate the technique of performing CPR	3	presentation	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.routledge.com/Bailey-Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.routledge.com/Bailey-Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	403	08.12-14.12.24

						<a href="https://www.routledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>		
--	--	--	--	--	--	---	--	--

LECTURER \_\_\_\_\_ Syed Ali Abbas Rahat

**Plan of organization ISW(teacher based) for lecturer**

	Тема СРСП	Задание для СРСП	Час ы	Оценочн ые средства	Ба лл	Образователь ные ресурсы	Ауд .	Срок сдачи
1	Surgical operation. Types of surgical operation. Positioning of patient during operative procedure	Various types of operations and patient positioning	3	Diagrams , chart	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.routledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.routledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	400	20.10-26-10
2	General anesthesia-complete procedure	Explain whole general anesthesia and show intubation	3	MCQS and demonstration	10	Bailey & Love Short practice of surgery 28th edition(2023) <a href="https://www.routledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.routledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a>	400	17.11-23.11

LECTURER \_\_\_\_\_ Syed Ali Abbas Rahat



1-Module - 25 marks	2-Module – 25 marks
<ul style="list-style-type: none"> <li>✓ ISW - 4-marks</li> <li>✓ ISWT- 4-marks</li> <li>✓ Practical classes, current control- 4-marks</li> <li>*Lecturer current control- 4 marks</li> <li>✓ CURRENT control - 9 marks</li> </ul> <p><b>Total 25 marks</b></p>	<ul style="list-style-type: none"> <li>✓ ISW - 4-marks</li> <li>✓ ISWT- 4-marks</li> <li>✓ Practical classes, current control- 4-marks</li> <li>*Lecturer current control- 4 marks</li> <li>✓ CURRENT control - 9 marks</li> </ul> <p><b>Total 25 marks</b></p>
<b>Final exam –50 marks</b>	

**Course policy** (depending on the subject, some elements of the course policy can be changed):

1. Attendance and participation in classes
  - Requirements for attendance of lectures and practical classes
  - Rules of conduct in classes
  - Consequences of absences without a valid reason
2. Academic honesty and plagiarism
  - Definition of plagiarism and academic dishonesty
  - Consequences of plagiarism and cheating on exams
3. Deadlines and penalties for late submission of work
  - Deadlines for homework, projects and other work
  - Penalties for missing deadlines
4. Retake and appeals policy
  - Conditions and procedure for retaking exams and tests
  - Rules for filing appeals against grades
5. Use of gadgets in classes
  - Permission or prohibition of the use of phones, laptops and other devices in lectures
6. Rules for the formatting of works and references
  - Requirements for the formatting of written work, citations and bibliography
7. Consultations and the teacher's office hours

Consultation schedule and the teacher's office hours for individual consultations and admission of independent work.

[https://www.oshsu.kg/storage/uploads/files/21684124788ilovepdf\\_merged\\_\(1\).pdf](https://www.oshsu.kg/storage/uploads/files/21684124788ilovepdf_merged_(1).pdf)

(A clear statement of the course policy in the syllabus helps students understand the teacher's expectations and the rules that must be followed during the course, as well as to avoid misunderstandings in the learning process).

### **Assessment System**

***Declaration of Academic Integrity: Students taking this course must submit a declaration requiring them to comply with the university's policy on academic integrity. Regulation "Organization of the educational process at OshSU" A-2024-0001, 2024.01.03.2024***

### Evaluation of students

Criteria	Description	Evaluation Method	Rating Scale
Participation	Level of engagement in class activities and discussions	Observation, teacher notes	4-Excellent / 3- Good / 2-Satisfactory / 1-Poor
Homework Completion	Timeliness and completeness of homework assignments	Homework records	4 -Excellent / 3- Good / 2- Satisfactory / 1-Poor
Clinical Knowledge	Understanding of cancer biology, staging, diagnostics, and treatment protocols	Case-based discussions, simulations, MCQs, oral questioning, role-play	4 -Excellent / 3- Good / 2- Satisfactory / 1-Poor
Collaboration	Ability to work well with peers during group tasks	Peer review, group observation	4 -Excellent / 3- Good / 2- Satisfactory / 1-Poor
Problem-Solving Skills	Applies logic and reasoning to solve clinical problems	In-class exercises, activities	4 -Excellent / 3- Good / 2- Satisfactory / 1-Poor
Creativity	Shows originality in assignments and presentations	Project-based tasks	4 -Excellent / 3- Good / 2- Satisfactory / 1-Poor
Time Management	Manages time effectively to complete tasks	Task logs, observations	4 -Excellent / 3- Good / 2- Satisfactory / 1-Poor
Self-Assessment	Ability to reflect on own strengths and areas for improvement	Student journals, checklists	4 -Excellent / 3- Good / 2- Satisfactory / 1-Poor

*The points of the course (100 points):*

1-Module - 25 marks	2-Module – 25 marks
<ul style="list-style-type: none"> <li>✓ ISW - 4-marks</li> <li>✓ ISWT- 4-marks</li> <li>✓ Practical classes, current control- 4-marks</li> <li>*<b>Lecturer</b> current control- 4 marks</li> <li>✓ CURRENT control - 9 marks</li> </ul> <p><b>Total 25 marks</b></p>	<ul style="list-style-type: none"> <li>✓ ISW - 4-marks</li> <li>✓ ISWT- 4-marks</li> <li>✓ Practical classes, current control- 4-marks</li> <li>*<b>Lecturer</b> current control- 4 marks</li> <li>✓ CURRENT control - 9 marks</li> </ul> <p><b>Total 25 marks</b></p>
<b>Final exam –50 marks</b>	

- *SFWT-selfwork with teacher; SFW-Selfwork; BC-boundary control; FC-final control.*

### Course Grading Scale

Point grade	Letter grade	Traditional grading
87 – 100	A	excellent
80 – 86	B	good
74 – 79	C	
68 -73	D	satisfactory
31 – 67	E	
0-31	FX	unsatisfactory

### Educational resources

(use the full link and indicate where the texts/materials can be accessed)

<b>Electronic resources</b>	<ol style="list-style-type: none"> <li>1. Learn surgeryonline <a href="https://learnsurgeryonline.com/">https://learnsurgeryonline.com/</a></li> <li>2. Web Surg <a href="https://websurg.com/en/">https://websurg.com/en/</a></li> <li>3. Journal for surgical education <a href="https://www.sciencedirect.com/journal/journal-of-surgical-education">https://www.sciencedirect.com/journal/journal-of-surgical-education</a></li> <li>4. <a href="https://www.ijsed.com/">https://www.ijsed.com/</a> International journal of surgical education</li> <li>5. <a href="https://www.bjsacademy.com/">https://www.bjsacademy.com/</a> Leading surgical education</li> <li>6. <a href="https://www.cochranelibrary.com/">https://www.cochranelibrary.com/</a> <a href="https://onlinelibrary.wiley.com/">https://onlinelibrary.wiley.com/</a></li> </ol>
<b>Electronic books</b>	<p><b>BASIC LITERATURE:</b></p> <ol style="list-style-type: none"> <li>1. Bailey &amp; Love Short practice of surgery 28<sup>th</sup> edition(2023) <a href="https://www.routledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117">https://www.routledge.com/Bailey--Loves-Short-Practice-of-Surgery---28th-Edition/OConnell-McCaskie-Sayers/p/book/9780367548117</a></li> <li>2. Clinical surgery by S.Das. 13<sup>th</sup> edition. <a href="https://www.flipkart.com/manual-clinical-surgery-13ed-2018/p/itm4x57ze2842ex">https://www.flipkart.com/manual-clinical-surgery-13ed-2018/p/itm4x57ze2842ex</a></li> <li>3. Diagnostic imaging 5<sup>TH</sup> edition by Armstrong Wastie &amp; Rockall <a href="https://www.amazon.com/Diagnostic-Imaging-Peter-Armstrong/dp/1405102306">https://www.amazon.com/Diagnostic-Imaging-Peter-Armstrong/dp/1405102306</a></li> <li>4. Schwartz principles of surgery 11<sup>th</sup> edition <a href="https://accessmedicine.mhmedical.com/book.aspx?bookID=2576">https://accessmedicine.mhmedical.com/book.aspx?bookID=2576</a></li> <li>5. Textbook of Surgery 4<sup>th</sup> edition ( 2020) <a href="https://www.wiley.com/en-sg/Textbook+of+Surgery%2C+4th+Edition-p-9781119468165">https://www.wiley.com/en-sg/Textbook+of+Surgery%2C+4th+Edition-p-9781119468165</a></li> <li>6. Sabiston Textbook of surgery 21<sup>st</sup> edition (2021) <a href="https://shop.elsevier.com/books/sabiston-textbook-of-surgery/townsend/978-0-323-64062-6">https://shop.elsevier.com/books/sabiston-textbook-of-surgery/townsend/978-0-323-64062-6</a></li> </ol> <p><b>ADDITIONAL LITERATURE :</b></p> <ol style="list-style-type: none"> <li>1. Manipal Manual of Surgery 4<sup>th</sup> edition <a href="https://archive.org/details/5-6115972440968397055/page/59/mode/2up">https://archive.org/details/5-6115972440968397055/page/59/mode/2up</a></li> <li>2. SRB'S Manual of Surgery 3<sup>rd</sup> edition <a href="https://www.amazon.com/SRBS-Manual-Surgery-3-Bhat/dp/8184485514">https://www.amazon.com/SRBS-Manual-Surgery-3-Bhat/dp/8184485514</a></li> </ol>

	<p>3. <i>Surgery Essence by Dr.Pritesh. 4<sup>th</sup> edition</i>  <a href="https://neetpgguide.xyz/2021/04/27/surgery-essence-by-dr-pritesh-singh-4th/">https://neetpgguide.xyz/2021/04/27/surgery-essence-by-dr-pritesh-singh-4th/</a></p> <p>4. <i>Kirk's Basic surgical techniques 7<sup>th</sup> edition</i>  <a href="https://www.amazon.com/Kirks-Basic-Surgical-Techniques-Fiona/dp/0702073229">https://www.amazon.com/Kirks-Basic-Surgical-Techniques-Fiona/dp/0702073229</a></p> <p>5. Oxford hand book of operative surgery 3<sup>rd</sup> edition.  <a href="https://academic.oup.com/book/30064">https://academic.oup.com/book/30064</a></p> <p>6. Oxford hand book of clinical surgery 5th edition.  <a href="https://global.oup.com/academic/product/oxford-handbook-of-clinical-surgery-9780198799481?cc=kg&amp;lang=en&amp;">https://global.oup.com/academic/product/oxford-handbook-of-clinical-surgery-9780198799481?cc=kg&amp;lang=en&amp;</a></p>
--	---

Зав. каф. к.м.н. доцент Каримова Н. А.

\_\_\_\_\_

Председатель УМС ММФ Доцент, Базиева А. М.

\_\_\_\_\_

Руководитель ООП «Лечебное дело» (GM)  
 к.м.н. доцент Бугубаева М. М.

Head of the department

Karimova N. A.

Chairwoman of SMC SDT

Bazieva A. M.

Senior Lecturer

Syed Ali Abbas Rahat