

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

**ACADEMIC PROGRAM**  
**(Syllabus)**

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

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.



Ош

### ***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.                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>LO EBP</b>                                                                                                    | <b>Competencies</b>                                                                                                                                                                              | <b>Code of LO of discipline (LOd)and its wording</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>PO7</b> – Is able to apply basic knowledge in the field of diagnostic activities to solve professional tasks. | <b>PC-14</b> - 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; | <b>He knows and understands:</b><br>-Modern diagnostic methods for the most common surgical diseases<br><b>Is able to:</b><br>-Collect medical history, conduct general clinical examination of patients with surgical diseases, and prepare medical documentation.<br><b>Possesses:</b><br>-Palpation, percussion, and auscultation of the thoracic and abdominal organs.<br>Skills to apply skin sutures, treat wounds, probe the stomach, perform a finger examination of the rectum. |
| <b>PO8</b> – Able to apply basic knowledge in the field of therapeutic activities to solve professional problems | <b>PC-17</b> - 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.;   | <b>He knows and understands:</b><br>- Basic rules of antiseptics and asepsis, the main groups of antiseptics.<br><b>Is able to:</b><br>- use medical instruments, knows how to store and sterilize them if necessary.<br><b>Possesses:</b><br>-The technique of working with surgical instruments<br>-perform punctures of joints and cavities<br>- to apply surgical stitches.                                                                                                          |

|                                                                                                                       |                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PO11</b> - He is able to apply basic knowledge in the field of scientific research to solve professional problems. | <b>PC-31</b> - is able and willing to analyze and publicly present medical information based on evidence-based medicine; | <b>Knowledge:</b><br>Fundamentals of scientific research methodology in medicine, ethical principles, statistical methods of data analysis.<br><b>Is able to:</b><br>Conduct a literature search, formulate hypotheses, analyze research results to solve clinical problems.<br><b>Possess:</b><br>Techniques for collecting and processing data in medical experiments, presentation of research results. |
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### Technological map of the discipline

Recommended technological map for one module in the context of one semester (M1):

| Discipline               | Credit | Classroom hours | Independent Work of Students | 1 Module (50 points)   |     |     |        | Exam. (50 points) |
|--------------------------|--------|-----------------|------------------------------|------------------------|-----|-----|--------|-------------------|
|                          |        | 40%             | 60%                          | Ауд. часы              |     | CPC | PK (r) | ИК (E)            |
|                          |        |                 |                              | лек.                   | пр. |     |        |                   |
| ООЦ                      | 3      | 36              | 54                           | 14                     | 22  | 54  |        |                   |
| Points accumulation card |        |                 |                              | 8                      | 8   | 16  | 18     |                   |
| Module and exam results  |        |                 |                              | (M=tcp.+r+s) до 50/ 50 |     |     |        | 50                |
|                          |        |                 |                              | Рдоп. = M1 (30-50)     |     |     |        |                   |
| Final assessment         |        |                 |                              | I = Рдоп. + E          |     |     |        | 100               |

### Calendar and thematic plan of lectures

| № week. | Topic name                                                                                                                                                                               | Number of hours | Marks |                                     |                    |       |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------------------------------------|--------------------|-------|
|         |                                                                                                                                                                                          |                 | Visit | Test (for TC), oral, written survey | keeping a workbook | Total |
|         | <b>1- module</b>                                                                                                                                                                         |                 |       |                                     |                    |       |
| 1.      | Diseases of thyroid gland. Congenital heart diseases. Eisenmenger complex, tricuspid atresia, coarctation of the aorta, transposition of blood vessels. Tetrad, triad, pentad of Fallot. | 2               | 1     | 2                                   | 1                  | 4     |
| 2.      | Congenital heart diseases.PDA,VSD AND ASD. Arterial disorders. Anuerysm and types of aneurysm,Abdominal aortic aneurysm.                                                                 | 2               | 1     | 2                                   | 1                  | 4     |
| 3.      | Obliterans thrombanginitis. Raynaud's disease.                                                                                                                                           | 2               | 1     | 2                                   | 1                  | 4     |
| 4.      | Diseases of veins. Varicose veins.                                                                                                                                                       | 2               | 1     | 2                                   | 1                  | 4     |
| 5.      | Deep vein thrombosis and pulmonary embolism                                                                                                                                              | 2               | 1     | 2                                   | 1                  | 4     |
| 6.      | Surgical anatomy of mediastinum. Mediastinitis.                                                                                                                                          | 2               | 1     | 2                                   | 1                  | 4     |
| 7.      | Surgical anatomy of thorax region. Physiology of lungs & pleura. Pleural effusion. Pneumothorax and its types. Hemothorax                                                                | 2               | 1     | 2                                   | 1                  | 4     |
|         | <b>Total</b>                                                                                                                                                                             | 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. Thyrotoxicosis.Graves’ disease. Hashimoto thyroiditis. Riedel’s thyroiditis.                                                                                  | <a href="https://youtu.be/BuTCrvz-TA?si=O4x1RR_oieaDIMAaw">https://youtu.be/ BuTCrvz-TA?si=O4x1RR_oieaDIMAaw</a>                                                                                                                     | 2               | 1     | 2                                   | 1                  | 4     |  |
| 2.      | Diseases of parathyroid gland. Primary and secondary hyperparathyroidism.                                                                                                                                | <a href="https://youtu.be/BuTCrvz-TA?si=O4x1RR_oieaDIMAaw">https://youtu.be/ BuTCrvz-TA?si=O4x1RR_oieaDIMAaw</a>                                                                                                                     | 2               | 1     | 2                                   | 1                  | 4     |  |
| 3.      | Heart surgery – general characteristics Acquired heart diseases (stenosis and regurgitation). Surgical treatment.                                                                                        | <a href="https://youtu.be/Iow9etJ4mqo?si=S_bk416DG_nqB5SE">https://youtu.be/Iow9etJ4mqo?si=S_bk416DG_nqB5SE</a>                                                                                                                      | 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. Congenital heart diseases.PDA,VSD AND ASD. | <a href="https://youtu.be/pNn7pICPAvU?si=aiSHyKvvyZxBUjhY">https://youtu.be/pNn7pICPAvU?si=aiSHyKvvyZxBUjhY</a><br><a href="https://youtu.be/sqk9ZuYLEDE?si=5VGfA3C7MQyaAD5k">https://youtu.be/sqk9ZuYLEDE?si=5VGfA3C7MQyaAD5k</a>   | 2               | 1     | 2                                   | 1                  | 4     |  |
| 5.      | Arterial disorders. Anuerysm and types of aneurysm,Abdominal aortic aneurysm.                                                                                                                            | <a href="https://youtu.be/4QvHj5wXdWA?s=i=kU6z2Pmpe-9WcAN3">https://youtu.be/4QvHj5wXdWA?s=i=kU6z2Pmpe-9WcAN3</a>                                                                                                                    | 2               | 1     | 2                                   | 1                  | 4     |  |
| 6.      | Aortic dissection. CABG.Diseases of veins. Varicose veins. Obliterans thrombanginitis. Raynaud's disease.                                                                                                | <a href="https://youtu.be/uCfzd1W99lk?si=L1JdbrpDH0fiqIYT">https://youtu.be/uCfzd1W99lk?si=L1JdbrpDH0fiqIYT</a><br><a href="https://youtu.be/4QvHj5wXdWA?s=i=VxOcf9ijJxNJRLf6">https://youtu.be/4QvHj5wXdWA?s=i=VxOcf9ijJxNJRLf6</a> | 3               | 1     | 2                                   | 1                  | 4     |  |
| 7.      | Deep vein thrombosis and pulmonary embolism. Surgical anatomy of mediastinum. Mediastinitis.                                                                                                             | <a href="https://youtu.be/jJ66zfDy2TM?si=pMe9R8-yNzIXRtmv">https://youtu.be/jJ66zfDy2TM?si=pMe9R8-yNzIXRtmv</a><br><a href="https://youtu.be/S-e-JqMrHU?si=eJzYD8A83nUSLrFK">https://youtu.be/ S-e-JqMrHU?si=eJzYD8A83nUSLrFK</a>    | 3               |       |                                     |                    |       |  |
| 8.      | Surgical anatomy of thorax region. physiology of lungs & pleura. Bronchiectasis. Empyema of lungs.                                                                                                       | <a href="https://youtu.be/XzmvG3pgRVo?si=zUshocClSaXbBwrp">https://youtu.be/XzmvG3pgRVo?si=zUshocClSaXbBwrp</a>                                                                                                                      | 3               | 1     | 2                                   | 1                  | 4     |  |
| 9.      | Pleural effusion. Pneumothorax and its types. Hemothorax.                                                                                                                                                | <a href="https://www.youtube.com/watch?v=EAg-hXN8TSs">https://www.youtube.com/watch?v=EAg-hXN8TSs</a><br><a href="https://youtu.be/tFYAj0r823M?si=7Op4a9X5cgJwb2b">https://youtu.be/tFYAj0r823M?si=7Op4a9X5cgJwb2b</a>               | 3               | 1     | 2                                   | 1                  | 4     |  |
|         | Total                                                                                                                                                                                                    |                                                                                                                                                                                                                                      | 22              | 1     | 2                                   | 1                  | 4     |  |
|         | Exam                                                                                                                                                                                                     |                                                                                                                                                                                                                                      |                 |       |                                     |                    | 50    |  |

### Thematic plans for students' independent work

|    | Topic                                                                                                                                     | Task for ISW                            | Hours | Marks | Reference                                                                                                                                                                                                 | Deadline              |
|----|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 1  | Preoperative preparation and postoperative management of surgical patients. Clinical anatomy of the abdomen.                              | Making diagram                          | 3     | 5     | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919</a> | 1 <sup>st</sup> week  |
| 2. | Endemic goiter – definition, distribution sites, classification, etiopathogenesis, clinic, prevention and treatment                       | PPT                                     | 3     | 5     | <a href="https://youtu.be/MKQ2YfsSSOY?si=2SM35ucAxIJCp6n">https://youtu.be/MKQ2YfsSSOY?si=2SM35ucAxIJCp6n</a>                                                                                             | 2 <sup>nd</sup> week  |
| 3  | Congenital heart diseases.                                                                                                                | Making diagram                          | 3     | 5     | <a href="https://youtu.be/Kdl96iHMaPs?si=agjVg7kKbtJjqGO2">https://youtu.be/Kdl96iHMaPs?si=agjVg7kKbtJjqGO2</a>                                                                                           | 3 <sup>th</sup> week  |
| 4  | Prevention of vascular diseases.                                                                                                          | solving situational case study cards(5) | 3     | 5     | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919</a> | 4 <sup>th</sup> week  |
| 5  | Aortic coarctation                                                                                                                        | PPT                                     | 3     | 5     | <a href="https://youtu.be/0n3zTrZ_1Wk?si=QnWvKA3KZt0GEdW-">https://youtu.be/0n3zTrZ_1Wk?si=QnWvKA3KZt0GEdW-</a>                                                                                           | 5 <sup>th</sup> week  |
| 6  | Methods of surgery – closed and open methods, commissurotomy and prosthetics of heart valves.                                             | referat                                 | 3     | 5     | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919</a> | 6 <sup>th</sup> week  |
| 7  | <a href="#">Transplantation</a>                                                                                                           | Presentatio<br>n                        | 3     | 5     | <a href="https://youtu.be/8HB_clfPgTY?si=Y2yguqYhVUgsIbjM">https://youtu.be/8HB_clfPgTY?si=Y2yguqYhVUgsIbjM</a>                                                                                           | 7 <sup>th</sup> week  |
| 8  | Inguinal hernia & types                                                                                                                   | Presentatio<br>n                        | 3     | 5     | <a href="https://youtu.be/wRSBLQtgv5w?si=UC_Ly-2Vz1z7XEf">https://youtu.be/wRSBLQtgv5w?si=UC_Ly-2Vz1z7XEf</a>                                                                                             | 8 <sup>th</sup> week  |
| 9  | Thyroiditis, strumitis – definition, clinic, complications, types of chronic thyroiditis (Riedel's goiter, Hashimoto's goiter), treatment | Referat                                 | 3     | 5     | <a href="https://youtu.be/fzplcC8qeg8?si=lHDxmZdPa6f7WWwe">https://youtu.be/fzplcC8qeg8?si=lHDxmZdPa6f7WWwe</a>                                                                                           | 9 <sup>th</sup> week  |
| 10 | Pulmonary embolism – frequency, clinic and treatment                                                                                      | Making diagram                          | 3     | 5     | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1885&amp;id4=2.2.81.1#books01920">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1885&amp;id4=2.2.81.1#books01920</a> | 10 <sup>th</sup> week |
| 11 | Acute arterial thrombosis – degrees and treatment                                                                                         | PPT                                     | 3     | 5     | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1884&amp;id4=2.2.81.1#books01918">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1884&amp;id4=2.2.81.1#books01918</a> | 11 <sup>th</sup> week |
| 12 | Aortic bifurcation embolism – etiopathogenesis, clinic and treatment                                                                      | Making diagram                          | 3     | 5     | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919</a> | 12 <sup>th</sup> week |
| 13 | Risk factors and prevention of thromboembolic complications.                                                                              | solving situational case study cards(5) | 3     | 5     | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1886&amp;id4=2.2.81.1#books01921">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1886&amp;id4=2.2.81.1#books01921</a> | 13 <sup>th</sup> week |
| 14 | Anatomy, topography and physiology of the lungs and pleura.                                                                               | PPT                                     | 3     | 5     | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=285&amp;id4=#books00282">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=285&amp;id4=#books00282</a>                   | 14 <sup>th</sup> week |
| 15 | Basic, additional diagnostic methods, diagnostic operations on the chest.                                                                 | referat                                 | 3     | 5     | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919</a> | 15 <sup>th</sup> week |

| 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          | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1885&amp;id4=2.2.81.1#books01920">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1885&amp;id4=2.2.81.1#books01920</a> |
| 2. Oxford Handbook of Operative Surgery                          | Anil Agarwal, Neil Borley, Greg McLatchie                               | 2017          | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1884&amp;id4=2.2.81.1#books01918">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1884&amp;id4=2.2.81.1#books01918</a> |
| 3. Bailey Love's Short Practice of Surgery                       | Henry Hamilton Bailey, Robert J. McNeill Love                           | 2018          | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1883&amp;id4=2.2.81.1#books01919</a> |
| 4. Surgical Care at the District Hospital                        | Jean C. Emmanuel                                                        | 2000          | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1886&amp;id4=2.2.81.1#books01921">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=1886&amp;id4=2.2.81.1#books01921</a> |
| 5. Manipal manual of Surgery 4th edition                         | Rajagopal Shenoy, Anitha Shenoy                                         | 2014          | <a href="https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=285&amp;id4=#books00282">https://ibooks.oshsu.kg/book/?lg=1&amp;id_parent=376&amp;id1=285&amp;id4=#books00282</a>                   |

#### QR CODE for literary books



#### Программное обеспечение и Интернет-ресурсы:

1. MedLine – [http:// www.medline](http://www.medline) – catalog.ru
2. ScientificNefworh - <http://nature.web.ru>
3. Медицински книги - <http://www.medicbooks.info>