

Документ подписан простой электронной подписью  
Информация о владельце:  
ФИО: Ястребов Олег Александрович  
Должность: Ректор  
Дата подписания: 28.05.2026 12:33:12  
Уникальный программный ключ:  
ca953a0120d891083f939673078ef1a989dae18a

**Federal State Autonomous Educational Institution of Higher Education  
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA  
NAMED AFTER PATRICE LUMUMBA  
RUDN University  
Institute of Medicine**

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educational division (faculty/institute/academy) as higher education programme developer

## **COURSE SYLLABUS**

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**Surgical diseases**

course title

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**Recommended by the Didactic Council for the Education Field of:**

**31.05.03 Dentistry**

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field of studies / speciality code and title

**The course instruction is implemented within the professional education programme of higher education:**

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**Dentistry**

higher education programme profile/specialisation title

**2026**

## 1. COURSE GOAL(s)

The discipline "Surgical diseases" is included in the program of the specialty "Dentistry" in the field of "Dentistry" and is studied in the 6th semester of the 3rd year. The discipline is implemented by the Department of Faculty Surgery. The discipline consists of 3 sections and 18 topics.

The goal of the course "Surgical Diseases" is to teach students about the diagnosis of major diseases studied in the course of surgical diseases.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Surgical Diseases" is aimed at the development of the following competences /competences in part: GPC-5, GPC-6, GPC-7.

*Table 2.1. List of competences that students acquire through the course study*

| <b>Competence code</b> | <b>Competence descriptor</b>  | <b>Competence formation indicators<br/>(within this course)</b>   |
|------------------------|---|---|
| GPC-5                  | Being able to examine patients to determine a diagnosis when solving professional tasks   | GPC-5.1.Gathering anamnesis by analyzing the patient's complaints, making a physical examination at a dental appointment.   |
|                        |   | GPC-5.2.Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient.   |
|                        |   | GPC-5.3.Compiling medical documentation for a patient in accordance with regulatory requirements.   |
| GPC-6                  | Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks  | GPC-6.1.Developing a plan for dental disease treatment taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the medical care standards. |
|                        |   | GPC-6.2.Selecting medical products (including dental materials) for drawing up a comprehensive plan for dental disease treatment. Following up the treatment of a patient.  |
|                        |   | GPC-6.3.Assessing the possible side effects of taking medicinal drugs.  |
| GPC-7                  | Being able to organize work and take professional decisions in case of emergency conditions, amid emergencies, epidemics, and in the foci of mass destruction | GPC-7.1.Being able to use the algorithm for providing first aid in emergency conditions, including in extreme conditions and foci of mass destruction.  |
|                        |   | GPC-7.2. Identifying conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and acute respiratory failure.  |
|                        |   | GPC-7.3.Providing emergency medical care to patients with conditions that pose a threat to the patient's life, including clinical death (cessation of the vital organs functions(blood circulation and (or) breathing).   |

## 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective\* component of (B1) block of the higher educational programme curriculum.

\* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

*Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results*

| <b>Competence code</b> | <b>Competence descriptor</b>  | <b>Previous courses/modules*</b>  | <b>Subsequent courses/modules*</b>                           |
|------------------------|---|---|--|
| GPC-5                  | Being able to examine patients to determine a diagnosis when solving professional tasks   | Radiation diagnostics<br>Propaedeutic of internal diseases<br>General surgery | Internal diseases<br>Emergency Medicine<br>Internal diseases |
| GPC-6                  | Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks  | Radiation diagnostics<br>Propaedeutic of internal diseases<br>General surgery | Internal diseases<br>Emergency Medicine<br>Internal diseases |
| GPC-7                  | Being able to organize work and take professional decisions in case of emergency conditions, amid emergencies, epidemics, and in the foci of mass destruction | Radiation diagnostics<br>Propaedeutic of internal diseases<br>General surgery | Internal diseases<br>Emergency Medicine<br>Internal diseases |

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 3 credits (108 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)\**

| <b>Type of academic activities</b>                            | <b>Total academic hours</b> | <b>Semesters/training modules</b> |
|---|-----------------------------|-----------------------------------|
|   |                             | 6                                 |
| <i>Contact academic hours</i>                                 | 54                          | 54                                |
| including:  | -                           | -                                 |
| Lectures (LC)   | -                           | -                                 |
| Lab work (LW)   | 54                          | 54                                |
| Seminars (workshops/tutorials) (S)                            | -                           | -                                 |
| <i>Self-studies</i>   | 51                          | 51                                |
| <i>Evaluation and assessment (exam/passing/failing grade)</i> | 3                           | 3                                 |
| <b>Course workload</b>  | academic                    | 108                               |
|   |                             | 108                               |

|  |         |   |   |
|--|---------|---|---|
|  | hours   |   |   |
|  | credits | 3 | 3 |

## 5. COURSE CONTENTS

*Table 5.1. Course contents and academic activities types*

| <b>Name of the discipline section</b>                        | <b>Topic name<br/>Content of the section</b>   | <b>Type of educational work*</b> |
|--|--|----------------------------------|
| <b>Section 1.<br/>Diseases of the gastrointestinal tract</b> | 1.1<br>Appendicitis. Acute appendicitis. Complications of appendicitis. Chronic appendicitis.<br>Appendicitis. Acute appendicitis. Clinic. Diagnostics. Treatment. Complications of appendicitis. Clinic. Diagnostics. Treatment. Chronic appendicitis. Clinic. Differential diagnosis. Indications for surgery.   | <b>LW</b>                        |
|  | 1.2<br>Hernias. Inguinal hernia. Congenital inguinal hernias. Femoral hernias. Umbilical and hernia of the white line of the abdomen. Strangulated hernia.<br>Hernias. The General notion about hernias. Types of hernias. Inguinal hernia. Congenital inguinal hernias. Femoral hernias. Umbilical and hernia of the white line of the abdomen. Anatomy. Differential diagnosis Clinic. Surgical treatment. Strangulated hernia. Views. Clinic. Diagnostics. Treatment. Clinic, diagnosis. Features of operational equipment. | <b>LW</b>                        |
|  | 1.3<br>Calculous cholecystitis. Acute cholecystitis. Chronic cholecystitis.<br>Calculous cholecystitis. Acute cholecystitis. Clinic. Diagnostics. Treatment. Complications of cholecystitis. Chronic cholecystitis. Clinic. Diagnostics. Treatment. Type of operation.   | <b>LW</b>                        |
|  | 1.4<br>Mechanical jaundice.<br>Mechanical jaundice. Reasons. Diagnostic method. Treatment.   | <b>LW</b>                        |
|  | 1.5<br>Pancreatitis. Acute pancreatitis. Chronic pancreatitis.<br>Pancreatitis. Acute pancreatitis. Classification. Clinic. Diagnostics. Treatment. Complications. Chronic pancreatitis. Classification. Clinic. Methods of diagnosis and surgical treatment.  | <b>LW</b>                        |
|  | 1.6<br>Liver disease. Liver cancer. Portal hypertension syndrome. Cirrhosis. Echinococcus of the liver.<br>Liver disease. Liver cancer. Views. Diagnostic method. Treatment. Portal hypertension syndrome. Cirrhosis. Diagnostics. Complications. Clinic. Treatment. Echinococcus  | <b>LW</b>                        |

|  |  |    |
|--|--|----|
|  | of the liver. Species. Diagnosis. Treatment.   |    |
|  | 1.7<br>Diseases of the stomach and duodenum. Gastric and duodenal ulcer. Complications of duodenal ulcer.<br>Diseases of the stomach and duodenum. Gastric and duodenal ulcer. Conservative therapy. Indications for surgical treatment. Methods of surgical treatment. Complications of duodenal ulcer. Clinic. Diagnostics. Treatment. | LW |
|  | 1.8<br>Stomach cancer. Cancer of papilla Vateri.<br>Stomach cancer. Classification. Clinic. Diagnostics. Type of operation. Cancer of papilla Vateri. Clinic. Diagnostics. Treatment.  | LW |
|  | 1.9<br>Bowel disease. Crohn disease. Ulcerative colitis.<br>Bowel disease. Crohn disease. Ulcerative colitis. Clinic. Diagnostics. Treatment. Complications.   | LW |
|  | 1.10<br>Diverticulosis of the large intestine. Colon cancer.<br>Diverticulosis of the large intestine. Complications. Diagnostics. Treatment. Colon cancer. Clinic. Diagnostics. Treatment.  | LW |
|  | 1.11<br>Diseases of the rectum. Hemorrhoids. Benign tumors of the rectum. Rectal cancer.<br>Diseases of the rectum. Hemorrhoids. Complications. Diagnostics. Treatment. Benign tumors of the rectum. Clinic. Diagnostics. Treatment. Rectal cancer. Diagnostics. Treatment.  | LW |
|  | 1.12<br>Intestinal obstruction. Mechanical and dynamic intestinal obstruction.<br>Intestinal obstruction. Classification. Clinic. Methods of conservative and surgical treatment. Mechanical and dynamic intestinal obstruction. Classification. Reasons. Views. Clinic. Diagnostics. Treatment.   | LW |
|  | 1.13<br>Peritonitis.<br>Peritonitis. Classification. Etiopathogenesis. Clinic. Treatment. Ways to reduce mortality.  | LW |
|  | 1.14<br>Special research methods.<br>Special research methods. Methods of endoscopic diagnosis of diseases of the digestive system. Modern methods of early diagnosis of tumors of the digestive tract.<br>X-ray contrast methods for the study of bile ducts.   | LW |
| <b>Section 2.<br/>Vascular<br/>diseases.</b> | 2.1<br>Varicose disease.<br>Varicose disease. Diagnostics. Clinic, complications. Treatment.   | LW |

|  |   |    |
|--|---|----|
|  | 2.2<br>Atherosclerosis of vessels of the lower extremities.<br>Atherosclerosis of vessels of the lower extremities. Clinic. Diagnostics. Treatment. Complications. Differential diagnosis of atherosclerosis and obliterating endarteritis of the lower extremities.                                    | LW |
| <b>Section 3.<br/>Diseases of the mammary and thyroid glands</b> | 3.1<br>Breast disease. Benign breast tumors. Breast cancer.<br>Breast disease. Benign breast tumors. Views. Method of treatment. Breast cancer. Classification. Clinic. Diagnosis, treatment.   | LW |
|  | 3.2<br>Thyroid disease. Thyrotoxic goiter. Graves' disease. Endemic goiter.<br>Thyroid disease. Thyrotoxic goiter. Clinic. Diagnostics. Treatment. Graves' disease. Clinic. Diagnostics. Treatment. Endemic goiter. Classification, diagnosis. Treatment, prevention. Complications of thyroid surgery. | LW |

\* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

## 6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

*Table 6.1. Classroom equipment and technology support requirements*

| <b>Classroom type</b>         | <b>Equipment of the classroom</b>   | <b>Specialized educational/laboratory equipment, software and materials for the development of the discipline (if necessary)</b>  |
|-------------------------------|---|---|
| Computer lab                  | A computer classroom for conducting classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with personal computers (in the amount of 1 pc.), a blackboard (screen) and multimedia presentation equipment. | Software: Microsoft products (OS, office suite, including MSOffice/Office 365), laptops, multimedia projectors. Surgery videos. Digital versions of lectures and seminars on surgery, video materials from foreign surgical clinics, handouts in the form of tests, posters, methodological publications. |
| Self-studies                  | A classroom for students' independent work (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS.  | Software: Microsoft products (OS, office suite, including MSOffice/Office 365), laptops, multimedia projectors. Surgery videos. Digital versions of lectures and seminars on surgery, video materials from foreign surgical clinics, handouts in the form of tests, posters, methodological publications. |
| An auditorium at the clinical | An auditorium for laboratory work and clinical classes,   | Laboratory and diagnostic equipment of the clinical bases of the department.  |

|   |   |   |
|---|---|---|
| base of the department for conducting laboratory and clinical classes | individual consultations, ongoing monitoring and intermediate certification, equipped with a set of specialized furniture and equipment | Software: Microsoft products (OS, office suite, including MSOffice/Office 365), laptops, multimedia projectors. Surgery videos. Digital versions of lectures and seminars on surgery, video materials from foreign surgical clinics, handouts in the form of tests, posters, methodological publications. |
|---|---|---|

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### 1. *Main readings:*

2. Kuzin M.I., Kuzin N.M., Kubyshkin V.A. and others. Surgical diseases. - 5th ed., reprint. and additional – M.: GEOTAR-Media, 2022. - 1024 p.: ill. Textbook of the Ministry of Health of the Russian Federation.
3. Surgical diseases. Edited by Saveliev V.S., Kiriyenko A.I. – M.:GEOTAR-MEDIA, 2017-720 p., 2 volumes. Textbook.
4. Pautkin Yu.F., Klimov A.E. Pogosov A.G. Student practice in a surgical clinic. – M.: RUDN, 2011. Study guide

### *Additional readings:*

Fedorov A.G., Davydova S.V., Ivanov V.A., Klimov A.E. Acute pancreatitis. Pancreatonecrosis. Textbook. M. 2021. RUDN Publishing House.

1. Lebedev N.V., Klimov A.E., Barkhudarov A.A., Klimentko A.S. Acute pancreatitis: Clinic. Diagnostics. Treatment. Textbook. M. 2021. RUDN Publishing House.
2. Klimov A.E., Uzoma C.C., Mylnikov A.G., Barkhudarov A.A., Klimentko A.S. Colonic diverticular disease. Textbook. M. 2022. RUDN Publishing House
3. Surgical diseases. Edited by A.F.Chernousov, M.: GEOTAR-Media, 2014
4. Zatevakhin I.I., Kiriyenko A.I., Kubyshkin V.A. Abdominal surgery. National Leadership. - M.: GEOTAR-MEDIA, 2016 - 912c
5. Saveliev V.S., Kiriyenko A.I. National Guidelines "Clinical surgery" in 3 volumes. - M.: GEOTAR-Media, 2008 - 2010.
6. Klimov A.E., Barkhudarov A.A., Popov V.S. and others. Collection of test tasks on the discipline "Faculty surgery". M. 2019. RUDN Publishing House
7. Shine M., Rogers P., Assalia A. "Common sense in emergency abdominal surgery, 3rd edition, Russian Surzhinet, 2015, 651 p.
8. Kiriyenko A.I., Chernyavsky A.M., Andriyashkin V.V. (ed.) "Thromboembolism pulmonary arteries: how to treat and prevent." - M.: MIA, 2015.
9. Kiriyenko A.I., Panchenko E.P., Andriyashkin V.V. "Venous thrombosis in the practice of a therapist and surgeon." - M.: PLANIDA, 2012
10. Clinical recommendations. Acute appendicitis in adults. [https://cr.minzdrav.gov.ru/preview-cr/325\\_2](https://cr.minzdrav.gov.ru/preview-cr/325_2)
11. Clinical recommendations. Inguinal and femoral hernia. [https://cr.minzdrav.gov.ru/preview-cr/684\\_2](https://cr.minzdrav.gov.ru/preview-cr/684_2)
12. Clinical recommendations. Postoperative ventral hernia. [https://cr.minzdrav.gov.ru/preview-cr/685\\_2](https://cr.minzdrav.gov.ru/preview-cr/685_2)

13. Clinical recommendations. Cholecystitis. [https://cr.minzdrav.gov.ru/preview-cr/819\\_1](https://cr.minzdrav.gov.ru/preview-cr/819_1)
14. Clinical recommendations. Acute pancreatitis. [https://cr.minzdrav.gov.ru/preview-cr/903\\_1](https://cr.minzdrav.gov.ru/preview-cr/903_1)
15. Clinical recommendations. Chronic pancreatitis. [https://cr.minzdrav.gov.ru/preview-cr/273\\_5](https://cr.minzdrav.gov.ru/preview-cr/273_5)
16. Clinical recommendations. Cirrhosis and fibrosis of the liver. [https://cr.minzdrav.gov.ru/preview-cr/715\\_1](https://cr.minzdrav.gov.ru/preview-cr/715_1)
17. Clinical recommendations. Liver cancer (hepatocellular). [https://cr.minzdrav.gov.ru/preview-cr/1\\_3](https://cr.minzdrav.gov.ru/preview-cr/1_3)
18. Clinical recommendations. Peptic ulcer disease. [https://cr.minzdrav.gov.ru/preview-cr/277\\_2](https://cr.minzdrav.gov.ru/preview-cr/277_2)
19. Clinical recommendations. Stomach cancer. [https://cr.minzdrav.gov.ru/preview-cr/574\\_1](https://cr.minzdrav.gov.ru/preview-cr/574_1)
20. Clinical recommendations. Crohn's disease. [https://cr.minzdrav.gov.ru/preview-cr/176\\_2](https://cr.minzdrav.gov.ru/preview-cr/176_2)
21. Clinical recommendations. Ulcerative colitis. [https://cr.minzdrav.gov.ru/preview-cr/193\\_2](https://cr.minzdrav.gov.ru/preview-cr/193_2)
22. Clinical recommendations. Diverticular disease. [https://cr.minzdrav.gov.ru/preview-cr/179\\_3](https://cr.minzdrav.gov.ru/preview-cr/179_3)
23. Clinical recommendations. Hemorrhoids. [https://cr.minzdrav.gov.ru/preview-cr/178\\_2](https://cr.minzdrav.gov.ru/preview-cr/178_2)
24. Clinical recommendations. Acute non-cancerous intestinal obstruction. [https://cr.minzdrav.gov.ru/preview-cr/327\\_3](https://cr.minzdrav.gov.ru/preview-cr/327_3)
25. Clinical recommendations. Acute intestinal obstruction of tumor etiology. [https://cr.minzdrav.gov.ru/preview-cr/462\\_2](https://cr.minzdrav.gov.ru/preview-cr/462_2)
26. Clinical recommendations. Rectal cancer. [https://cr.minzdrav.gov.ru/preview-cr/554\\_3](https://cr.minzdrav.gov.ru/preview-cr/554_3)
27. Clinical recommendations. Varicose veins of the lower extremities. [https://cr.minzdrav.gov.ru/preview-cr/680\\_2](https://cr.minzdrav.gov.ru/preview-cr/680_2)
28. Clinical recommendations. Benign breast dysplasia. [https://cr.minzdrav.gov.ru/preview-cr/598\\_3](https://cr.minzdrav.gov.ru/preview-cr/598_3)
29. Clinical recommendations. Breast cancer. [https://cr.minzdrav.gov.ru/preview-cr/379\\_4](https://cr.minzdrav.gov.ru/preview-cr/379_4)

### **Database, information and referral systems and search systems.**

1. EBS RUDN and third-party EBS, to which university students have access on the basis of concluded contracts:
  - RUDN Electronic Library system - EBS RUDN <http://lib.rudn.ru/MegaPro/Web>
  - EBS "University Library Online" <http://www.biblioclub.ru>
  - ABS Yurayt <http://www.biblio-online.ru>
  - EBS "Student Consultant" [www.studentlibrary.ru](http://www.studentlibrary.ru)
  - EBS "Troitsky Bridge"
2. Databases and search engines
  - electronic Fund of legal and normative-technical documentation <http://docs.cntd.ru/>
  - search engine Yandex <https://www.yandex.ru/>
  - Google search engine <https://www.google.ru/>
3. Additional materials:

- Gastrointestinal endoscopy portal. The portal contains constantly updated videos, reports, articles, reports on diagnostic and operative endoscopy; there is an extensive selection of links to Internet resources on endoscopy, gastroenterology, search engines for access to medical journals. <http://www.gi-endo.ru/>
- Website ENDOSCOPY.RU. A website where you can find complete and professional information about modern achievements, possibilities and prospects of diagnostic and therapeutic endoscopy. Of particular interest is the subsection "Methodological recommendations". <http://www.endoscopy.ru/>
- Medical portal MedUniver. The portal contains a medical photo atlas, videos on various branches of medicine, and a medical electronic library. <http://meduniver.com/>
- Portal about surgery. Contains materials on the most common surgical diseases (clinic, diagnosis and treatment). <http://www.hyurg.com/>
- Medical video portal. The site contains video recordings of lectures from leading Russian medical universities; surgical operations with comments; presentations at scientific medical congresses and conferences; three-dimensional animated videos that clearly demonstrate the work of various organs and systems; educational materials on fundamental sciences; directory of medical sites; a forum for the exchange of views; information about medical institutions. <http://www.med-edu.ru/>

*Educational and methodological materials for students' independent work in the development of the discipline/module\*:*

1. Guidelines for the implementation and execution of control and independent work on the discipline

\* - all educational and methodological materials for students' independent work are placed in accordance with the current procedure on the page of the discipline in TUIS!

## **8. EVALUATION MATERIALS AND POINT-RATING SYSTEM FOR ASSESSING THE LEVEL OF COMPETENCE FORMATION IN THE DISCIPLINE**

Evaluation materials and point-rating system\* for assessing the level of competence formation (GPC-5, GPC-6, GPC-7) based on the results of mastering the discipline «Surgical diseases» are presented in the Appendix to this Work Program.

### **DEVELOPERS:**

Associate Professor, Department  
of Faculty Surgery

\_\_\_\_\_  
position, department name

\_\_\_\_\_  
signature

A.A. Barkhudarov

\_\_\_\_\_  
initials, last name

Assistant Professor, Department  
of Faculty Surgery

\_\_\_\_\_  
position, department name

\_\_\_\_\_  
signature

A.S. Berisha

\_\_\_\_\_  
initials, last name

### **HEAD OF THE DEPARTMENT:**

Head of the Department of  
Faculty Surgery

\_\_\_\_\_  
position, department name

\_\_\_\_\_  
signature

A.E. Klimov

\_\_\_\_\_  
initials, last name

### **HEAD OF THE PROGRAMME:**

Deputy Director of MI

\_\_\_\_\_  
position, department name

\_\_\_\_\_  
signature

S.N. Razumova

\_\_\_\_\_  
initials, last name

