

FEDERAL STATE BUDGET EDUCATIONAL INSTITUTION
OF HIGHER EDUCATION
"ROSTOV STATE MEDICAL UNIVERSITY"
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION

Faculty of Education of foreign students, residents and postgraduates

CONFIRM

Supervisor
educational program



/ E.S. Belousova /
(FULL NAME.)

(signature)

20.05.2023

DISCIPLINE WORKING PROGRAM

GENERAL SURGERY

Speciality 31.05.01 General medicine

Form of education full-time

Rostov-on-Don
2023

I. GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE

Purpose mastering the discipline “General Surgery” is to form students’ understanding of the main directions of surgical work: compliance with the rules of asepsis and antisepsis when performing surgical operations, stopping bleeding and compensating for blood loss; training students in the basic principles of diagnosis and treatment of the most common surgical diseases and first aid in emergency conditions.

Tasks studying the discipline “General Surgery” is teaching students:

- purposefully find out the patient’s complaints and the history of the development of the disease, conduct physical examinations of the surgical patient (examination, palpation, percussion, auscultation), outline a plan for examining the surgical patient;
- organize surgical activities in compliance with the rules of asepsis in the premises of a surgical hospital and clinic;
- determine main surgical syndromes and diagnose the main types of purulent-septic diseases (etiology, pathogenesis, classification, clinical picture, basic principles of diagnosis and treatment of the most common surgical diseases) in accordance with the standards of medical care approved by the Ministry of Health of the Russian Federation;
- training students to provide first aid in the event of emergency conditions in accordance with the standards of medical care approved by the Ministry of Health of the Russian Federation;
- familiarizing students with the principles of organization and operation of medical institutions of various types;
- developing skills in studying scientific literature and official statistical reviews;
- formation of communication skills with patients, taking into account ethics and deontology, depending on the identified pathology and characterological characteristics of patients;
- developing student communication skills with the team.

II. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The process of studying the discipline is aimed at developing the following competencies in accordance with the Federal State Educational Standard of Higher Education and the EP of Higher Education in this specialty:

b) general professional (OPK):

OPK-4, OPK-7

c) professional (PC):

PK-3

III. THE PLACE OF DISCIPLINE IN THE STRUCTURE OF EP VO

3.1. The academic discipline “General Surgery” is basic (B1.B.45)

3.2. The formation of the above competencies is facilitated by the study of the following previous disciplines:

- Chemistry
- Biochemistry
- Microbiology, virology
- Fundamental medicine

3.3. The discipline “General Surgery” creates the prerequisites for the formation of these competencies by the following disciplines:

- Topographic anatomy and operative surgery
- Immunology
- Dermatovenereology
- Neurology, medical genetics, neurosurgery
- Psychiatry, medical psychology
- Otorhinolaryngology

- Ophthalmology
- Forensic Medicine
- obstetrics and gynecology
- Pediatrics
- Propaedeutics of internal diseases
- Faculty therapy
- Occupational diseases
- Hospital therapy
- Endocrinology
- Infectious diseases
- Phthysiology
- Outpatient therapy
- Anesthesiology, resuscitation, intensive care
- Faculty Surgery
- Urology
- Hospital surgery
- Pediatric surgery
- Dentistry
- Oncology, radiation therapy
- Traumatology, orthopedics

**IV. CONTENT AND STRUCTURE OF THE
DISCIPLINE Labor intensity of the discipline in 3
7 hours 252**

4.1. Sections of the discipline studied in semesters 5 and 6

Section number	Section name	Number of hours					
		Total	Contact work				SRS
			L	WITH	ET C	LR	
Semester 5							
1	General questions of surgery	64	8		thirty		26
2	Fundamentals of Clinical Surgery	44	8		18		18
Total for the semester		108	16		48		44
Interim certification form (test/test with assessment/exam)		test					
Semester 6							
1	General questions of surgery	22	2		12		8
2	Fundamentals of Clinical Surgery	86	14		36		36
Total for the semester		108	16		48		44
Interim certification form (test/test with assessment/exam)		Exam (36)					
<i>Total for the discipline:</i>		252	32		96		88

SRS- independent work of students
 L- lectures
 WITH– seminars (in accordance with the RUP)
 LR –laboratory work (in accordance with the RUP)
 ETC– practical exercises (in accordance with the RUP, they include clinical practical exercises)

4.2. Contact work

Lectures

Section number	Lecture no.	Lecture topics	Number of hours
Semester 5			
1	1.	Concept of surgery. A brief history of surgery. Current state of surgery. Organizational and legal foundations of surgical activity. Ethics and deontology in surgery.	2
1	2.	Asepsis, organization of the work of the surgical department and operating unit, preparation of the surgeon's hands and the surgical field for surgery. Antiseptics (mechanical, physical, biological, chemical, mixed).	2
1	3.	Bleeding. Blood clotting disorder at surgical patients and methods of their correction.	2
1	4.	Transfusion of blood and its components. Transfusion of blood substitutes. Fluid and electrolyte disturbances in surgical patients and principles of infusion therapy	2
2	5.	Wounds, phases of the wound process. Treatment of wounds.	2
2	6.	Thermal burns. Chemical burns.	2
2	7.	Cold injury. Electrical injury.	2
2	8.	Fractures. Dislocations. Clinic, diagnosis, treatment. Transport immobilization. Plaster technique.	2
Total hours per semester			16
Semester 6			
2	1.	Closed soft tissue injuries. Long-term crush syndrome, positional crush syndrome.	2
2	2.	General issues regarding head, chest and abdomen injuries	2
2	3.	General issues of purulent-septic surgery. Purulent diseases of the skin and subcutaneous tissue. Purulent diseases of the hand, cellular spaces and glandular organs	2
2	4.	Surgical sepsis. Endotoxemia. General question set: pathogenesis, clinical picture, diagnosis and treatment of purulent diseases of serous cavities	2
2	5.	Purulent diseases of bones and joints. Fundamentals of surgery for parasitic diseases.	2

2	6.	Acute anaerobic and putrefactive surgical infection. Specific surgical infection. Basics of surgery regional circulatory disorders.	2
2	7.	Fundamentals of surgical oncology. Developmental defects. Fundamentals of Plastic Surgery	2
1	8.	Stages of treatment of a surgical patient (first aid, outpatient surgery, inpatient surgery)	2
Total hours per semester			16
<i>Total hours discipline:</i>			32

Seminars, practical work

Section number	Seminar No., PR	Topics of seminars, practical work	Quantity hours	Forms of current control
Semester 5				
1	1	Organization of the work of the surgical department and operating unit.	3	Oral survey
1	2	Asepsis. Prevention of airborne infection	3	Oral survey
1	3	Asepsis. Prevention of contact and implantation infection	3	Oral survey
1	4	Mechanical and physical antiseptics.	3	Oral survey
1	5	Chemical, biological and mixed antiseptics	3	Testing, solving situational problems, oral survey
1	6	Bleeding, blood loss. Blood clotting disorders in surgical patients	3	Oral survey
1	7	Transfusion of blood and its components.	3	Oral survey
1	8	Transfusion of blood substitutes. Fluid and electrolyte disturbances in surgical patients and principles of infusion therapy.	3	Oral survey, abstract (UIRS)
1	9	Complications during blood and blood substitute transfusions	3	Testing, solving situational problems, oral survey
2	10	Wounds. Phases of the wound process.	3	Oral survey
2	eleven	Treatment of wounds.	3	Oral survey
2	12	Thermal and chemical burns	3	Oral survey, abstract (UIRS)

Section number	Seminar No., PR	Topics of seminars, practical work	Quantity hours	Forms of current control
2	13	Electrical injury, cold injury.	3	Testing, solving situational problems, oral survey
2	14	General issues in surgery of injuries. First aid for critical conditions. Fractures. Clinic, diagnosis, treatment.	3	Oral survey
2	15	Dislocations. Clinic, diagnosis, treatment. Transport immobilization. Plaster technique.	3	Testing, solving situational problems, oral survey
1	16	Desmurgy. Non-operative surgical technique: probing, catheterization, injections.	3	Oral survey
Total hours per semester			48	
Semester 6				
2	1	Closed injuries of soft tissues and tendons. Long-term crush syndrome, positional compression syndrome	3	Oral survey, abstract (UIRS)
2	2	Closed and open injuries to the head, chest and abdomen	3	Testing, solving situational problems, oral questioning, abstract (UIRS)
1	3	Inpatient surgery. Preoperative period. Operation period. Postoperative period.	3	Oral survey
2	4	Purulent diseases of the skin and subcutaneous tissue (furuncle, carbuncle, hidradenitis, abscess, phlegmon, erysipelas, erysipeloid)	3	Oral survey
2	5	Purulent diseases of the hand, cellular spaces and glandular organs (felon, lymphadenitis, mastitis, mumps, paraproctitis, paracolicitis, mediastinitis)	3	Testing, solving situational problems, oral survey

Secti on number	Seminar No., PR	Topics of seminars, practical work	Qua ntit y hours	Forms of current control
2	6	General purulent infection - sepsis. Endotoxycosis.	3	Oral survey, abstract (UIRS)
2	7	Purulent diseases of serous cavities.	3	Oral survey, abstract (UIRS)
2	8	Purulent diseases of bones and joints	3	Testing, solving situational problems, oral questioning
1	9	Methodology for examining a surgical patient.	3	Oral survey
1	10	Patient supervision. Patient education to monitor basic physiological indicators.	3	Educational disease history
2	eleven	Anaerobic and putrefactive surgical infection. Specific surgical infection	3	Oral survey, abstract (UIRS)
2	12	Fundamentals of surgery for regional circulatory disorders. (Necrosis, gangrene, ulcers, fistulas)	3	Oral survey
2	13	Basics of surgical oncology	3	Oral survey
2	14	Developmental defects. Fundamentals of Plastic Surgery	3	Oral survey
2	15	Basics of surgery for parasitic diseases	3	Testing, solving situational problems, oral questioning
1	16	Outpatient surgery. Structure of the surgical service of the clinic, trauma center.	3	Oral survey
Total hours per semester			48	

Section number	Seminar No., PR	Topics of seminars, practical work	Quantity hours	Forms of current control
<i>Total hours discipline:</i>			96	

4.3. Independent work of students

Section number	Type of independent work of students	Number of hours	Forms of current control
Semester 5			
1	Preparation for classes	16	Oral survey
	Preparation for current control	10	Testing, solving situational problems
2	Preparation for classes	10	Oral survey
	Preparation for current control	8	Testing, solving situational problems
Total hours per semester		44	
Semester 6			
1	Preparation for classes	4	Oral survey
	Preparation for current control	2	Testing, solving situational problems
	Disease history	2	Protection of medical history
2	Preparation for classes	18	Oral survey
	Preparation for current control	10	Testing, solving situational problems tasks
	Essay	8	Defense of the abstract
Total hours per semester		44	
<i>Total hours discipline:</i>		88	

V. ASSESSMENT MATERIALS FOR CURRENT CONTROL,

INTERMEDIATE CERTIFICATION

(are an appendix to the work program).

VI. EDUCATIONAL AND METHODOLOGICAL SUPPORT OF DISCIPLINE

6.1. Printed publications

6.1.1. Main literature.

1. Gostishchev V.K. General surgery: textbook: [Rec. GOU VPO "Moscow Medical Academy named after I.M. Sechenov] / V.K. Gostishchev. - 5th ed., revised and supplemented. - M: GEOTAR-Media, 2020. - 727 p.
2. Gostishchev V.K. General surgery: textbook [Electronic resource] / V. K. Gostishchev. - 5th ed., revised. and additional - M.: GEOTAR-Media, 2015.
3. Order of the Ministry of Health of the Russian Federation dated May 10, 2017 N 203n "On approval of criteria for assessing the quality of medical care" <https://www.edu-med.ru/medinfo/ocenka-kachestva>

6.1.2. Additional literature.

1. Petrov S.V. General surgery: Appendix to the textbook on CD / [Electronic resource]. - M: GEOTAR-Media, 2007.
2. Chernov V.N. General surgery. Practical lessons: textbook. manual for medical students. universities/ V.N. Chernov, A.I. Maslov. - M.-Rostov n/d: Publishing center "MarT", 2004. - 256 p.
3. Necrosis, gangrene, ulcers, fistulas: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / V.N. Chernov, I.E. Tolstov; Rostov n/d, publishing house RostGMU, 2012. - 41 p.
4. Asepsis and antiseptics. Organization and stages of surgical care. Desmurgy: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / Belik B.M. Maslov A.I., Efanov S.Yu., Rodakov A.V. Rostov n/d, publishing house Diapazon-Plus LLC, 2022. – 56 p.
5. Bleeding. Blood loss. Organization of diagnostic and treatment care for patients with acute ulcerative gastroduodenal bleeding: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / Maslov A.I., Skorlyakov V.V. Rostov n/d, publishing house "Diapazon-Plus" LLC, 2016. – 46 p.
6. Transfusion of blood and its components. Transfusion of blood substitutes and blood products. Errors, dangers and complications during blood transfusion: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / Belik B.M., Maslov A.I., Skorlyakov V.V. Rostov n/d, publishing house "Diapazon-Plus" LLC, 2015. 52 p.
7. Wounds and wound infection. Treatment of wounds. Burns, electrical injuries, frostbite: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / Belik B.M. Maslov A.I., Babiev V.F., Rodakov A.V.. Rostov n/d, publishing house "Diapazon-Plus" LLC, 2018/ - 87 p.
8. General issues of surgical infection. Purulent diseases of soft tissues and glandular organs: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / Belik B.M., Maslov A.I., Rodakov A.V. Rostov n/d, publishing house "Diapazon-Plus" LLC, 2022. 68 p.
9. General issues of injury surgery: educational method. manual for 3rd year students of medical, pediatric, medical-prophylactic and dental faculties / Belik B.M., Maslov A.I., Skorlyakov V.V., Baev O.V., Rodakov A.V. Rostov n/d, publishing house "Diapazon-Plus" LLC, 2017. - 41 p.
10. Purulent diseases of serous cavities. General issues of surgical infection. Sepsis. educational method. manual for 3rd year students of medical, pediatric, medical

preventive and dental faculties / Belik B.M. Maslov A.I., Efanov S.Yu., Skorlyakov V.V., Rodakov A.V. Rostov n/d, publishing house, Diapazon-Plus LLC, 2020. – 65 p.

11. Acute purulent diseases bones and joints: educational method. manual for students / comp.: S.S. Keshchyan, V.V. Skorlyakov; under general ed. V.N. Chernova; Height. state honey. univ. – Rostov n/d: Publishing house of Rostov State Medical University, 2010. - 24 p.

12. General issues of oncology: educational method. manual for students/comp.: V.N. Chernov, A.I. Maslov; Height. state honey. university, department general surgery. - ed. 2nd, revised – Rostov n/d: Publishing house of Rostov State Medical University, 2014. - 62 p.

13. Educational and methodological manual on preparing a medical record (medical history) of an inpatient patient for students / compiled by: V.V. Skorlyakov, A.I. Maslov; under general ed. V.N. Chernova; Height. state honey. university, department general surgery. – Rostov n/d: Publishing house RostGMU, 2014. - 37 p.

14. Purulent diseases of the fingers and hand: educational method. a manual for teachers, students of medical universities, interns, residents, doctors / V.N. Chernov, B.M. Belik, A.I. Maslov; Height. state honey. univ. – Rostov n/d: Publishing house RostGMU, 2005. – 79 p.

15. Impaired blood and lymph circulation: educational method. manual for 3rd year students of medical, pediatric, medical-preventive and dental faculties / V.N. Chernov, I.E. Tolstoy; Height. state honey. university, department total surgery. – Rostov n/d: Publishing house RostGMU, 2012. - 41 p.

16. Closed soft tissue injuries, long-term crush syndrome, positional compression syndrome. Closed and open injuries to the head, chest, abdomen: educational method. aid for students / comp. O.V. Baev, V.V. Skorlyakov; under general ed. V.N. Chernova. – Rostov n/a: Publishing house RostGMU, 2010

17. [Order Ministry of Health of the Russian Federation dated December 20, 2012](#)

[No.1125n"Ob approval of the standard primary health care malignant neoplasms connective soft tissues stages I-IV \(examination during dispensary observation\)"](#)

<http://www.rosminzdrav.ru/documents/8246-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-20-dekabrya-2012-g-1125n-ob-utverzhenii-standarta-pervichnoy-mediko-sanitarnoy-pomoschi-pri-zlokachestvennyh-novoobrazovaniyah-soeditelnoy-i-myagkih-tkaney-i-iv-stadii-obsledovanie-pri-provedenii-dispansernogo-nablyudeniya>

18. Order of the Ministry of Health of the Russian Federation of December 20, 2012 city No. 1120n "On approval of the standard of emergency medical care in case of injury electric shock"

<http://www.rosminzdrav.ru/documents/8658-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-20-dekabrya-2012-g-1120n-ob-utverzhenii-standarta-skoroy-meditsinskoy-pomoschi-pri-porazhenii-elektricheskim-tokom>

19. Order of the Ministry of Health of the Russian Federation of December 20, 2012 No. 1123n "On approval of the standard of emergency medical care for abdominal injuries, lower back" <http://www.rosminzdrav.ru/documents/8659-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-20-dekabrya-2012-g-1123n-ob-utverzhenii-standarta-skoroy-meditsinskoy-pomoschi-pri-travmah-zhivota-nizhney-chasti-spiny>

20. Order of the Ministry of Health of the Russian Federation of December 20, 2012 No. 1278n "On approval of the standard of emergency medical care for burns, hypothermia"

<http://www.rosminzdrav.ru/documents/8660-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-20-dekabrya-2012-g-1278n-ob-utverzhenii-standarta-skoroy-meditsinskoy-pomoschi-pri-ozhogah-gipotermii>

21. Order of the Ministry of Health of the Russian Federation dated December 24, 2012 No. 1389n "On approval of the standard of emergency medical care for thoracic injuries cells"

<http://www.rosminzdrav.ru/documents/8663-prikaz-ministerstva-zdravoohraneniya-rossiyskoy-federatsii-ot-24-dekabrya-2012-g-1389n-ob-utverzhenii-standarta-skoroy-meditsinskoy-pomoschi-pri-travmah-grudnoy-kletki>

22. Order of the Ministry of Health of the Russian Federation dated December 24, 2012 No. 1390n "On approval of the standard of emergency medical care for head injuries"
<http://www.rosminzdrav.ru/documents/8664-prikaz-ministerstva-zdravooхранeniya-rossiyskoy-federatsii-ot-24-dekabrya-2012-g-1390n-ob-utverzhenii-standarta-skoroy-meditsinskoy-pomoschi-pri-travmah-golovy>
23. Order of the Ministry of Health of the Russian Federation dated December 24, 2012 No. 1399n "On approval of the standard of emergency medical care for the syndrome prolonged compression"
<http://www.rosminzdrav.ru/documents/8669-prikaz-ministerstva-zdravooхранeniya-rossiyskoy-federatsii-ot-24-dekabrya-2012-g-1399n-ob-utverzhenii-standarta-skoroy-meditsinskoy-pomoschi-pri-sindrome-dlitelnogo-sdavleniya>
24. Order of the Ministry of Health of the Russian Federation dated December 28, 2012 No. 1604n "On approval of the standard of emergency medical care for frostbite"
<http://www.rosminzdrav.ru/documents/8687-prikaz-ministerstva-zdravooхранeniya-rossiyskoy-federatsii-ot-28-dekabrya-2012-g-1604n-ob-utverzhenii-standarta-skoroy-meditsinskoy-pomoschi-pri-otmorozheniyah>
25. Order of the Ministry of Health of the Russian Federation of December 20, 2012 city No. 1262n "About approval standard of primary health care for bursitis elbow joint"
<http://www.rosminzdrav.ru/documents/8408-prikaz-ministerstva-zdravooхранeniya-rossiyskoy-federatsii-ot-20-dekabrya-2012-g-1262n-ob-utverzhenii-standarta-pervichnoy-mediko-sanitarnoy-pomoschi-pri-bursite-loktevogo-otrostka>
26. Burnshock <http://society-of-surgeons.rf/upload/Diagnostika-i-lechenie-ozhogovogo-shoka2.pdf>
27. Local treatment burns <http://society-of-surgeons.rf/upload/Mestnoe-konservativnoe-lechenie-postradavshih-ot-ozhogov2.pdf>
28. Peritonitis http://society-of-surgeons.rf/upload/nkr_peritonit_ispr_1-3.pdf
29. Abdominal sepsis http://society-of-surgeons.rf/upload/nkr_peritonit.doc

6.2. Internet resources

ELECTRONIC EDUCATIONAL RESOURCES	Access to the resource
Electronic library Rost State Medical University .– URL: http://109.195.230.156:9080/opac/	Unlimited access
Student Advisor [Kits: "Medicine. Healthcare. IN"; "Medicine. Healthcare. SPO"; "Psychological Sciences"] : Electronic library system. – Moscow: LLC "Polytekhresurs" - URL: https://www.studentlibrary.ru + opportunities for inclusive education	Unlimited access
Doctor's consultant. Electronic medical library: Electronic library system. – Moscow: LLC "Higher School of Organization and Management of Healthcare. Comprehensive medical consulting." - URL: http://www.rosmedlib.ru + opportunities for inclusive education	Unlimited access
Scientific electronic library eLIBRARY .- URL: http://elibrary.ru	Ope naccess
National Electronic Library. - URL: http://neb.rf/	Access from library computers
Federal Center for Electronic Educational Resources. - URL: http://srtv.fcior.edu.ru/	Ope naccess
Electronic Library of the Russian Foundation for Basic Research (RFBR). - URL: http://www.rfbr.ru/rffi/ru/library	Ope naccess

Federal Electronic Medical Library of the Russian Ministry of Health. - URL: https://femb.ru/femb/	Open access
Cochrane Library: official website ; "Open Access" section. - URL: https://cochranelibrary.com/about/open-access	Content open access
Cochrane Russia: Russian branch Cochranecooperation / RMANPO. – URL: https://russia.cochrane.org/	Open access content
Webmedinfo.ru: website [open information and educational medical resource]. - Moscow. - URL: https://webmedinfo.ru/	Open access
Med-Edu.ru: medical educational video portal. - URL: http://www.med-edu.ru/ . Free registration.	Open access
Doctor's world: professional portal [information resource for doctors and students]. - URL: https://mirvracha.ru .	Free registration
DoctorSPB.ru: information-reference portal about medicine [for students and doctors]. - URL: http://doctorspb.ru/	Open access
BEARWEST : Russian doctor portal [library, knowledge base]. - URL: https://medvestnik.ru	Open access
Russian doctor: website [news for doctors and medical archive. magazines] / ID "Russian doctor". - URL: https://rusvrach.ru/	Open access
Medline.Ru: scientific biomedical journal : online electronic publication. - URL: http://www.medline.ru	Open access
Medical Bulletin of the South of Russia: electron. magazine / RostSMU. - URL: http://www.medicalherald.ru/jour	Open access
Ministry of Health of the Russian Federation: official website. - URL: https://minzdrav.gov.ru	Open access

6.3. Guidelines for students on mastering the discipline

Studying the discipline should culminate in mastering the necessary professional knowledge, skills and abilities. This result can be achieved only after very significant efforts, and not only effort and ability will be important, but also a well-thought-out organization of educational activities, including the correct organization of time.

First of all, it is necessary in a timely manner - at the very beginning of the semester - to familiarize yourself with this work program, which indicates how much information should be learned, what skills to acquire to successfully master the discipline, what tasks to complete in order to get a decent grade. All types of classes are distributed throughout the semester systematically, taking into account the necessary time expenditure.

One of the main components of successful mastery of the discipline is regular attendance at lectures and practical classes.

At the lecture, the teacher informs students about new achievements in medical science, about the main provisions of the academic discipline, reveals the features of each specific topic, and introduces the problems in this section of science; orients in the sequence of development of theories, views, ideas, explains basic scientific concepts, reveals the meaning of terms - that is, educational information has already been processed by the teacher and becomes more adapted and easier for students to understand.

The development of practical skills and abilities takes place in practical classes, where students have the opportunity to apply the knowledge they have already acquired in practice, to practice practical skills and abilities.

You should prepare for a practical lesson in advance, having an idea of the course and requirements of each lesson. During practical classes you can directly

design requirements.

When preparing for the exam, it is necessary to simultaneously study the relevant theoretical and practical sections of the discipline.

The recommendations given above will allow you to complete all assignments in a timely manner, obtain the necessary professional skills and abilities, as well as a decent grade, and avoid the need to waste time on retraining and retaking the subject.

VII. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE

7.1. Educational and laboratory equipment. During the study of the discipline, surgical inpatient wards are used (surgical department No. 1, No. 2 of the Municipal Budgetary Institution of Public Health No. 1 of Rostov-on-Don - 100 beds, trauma center of the Municipal Budgetary Institution of Public Health No. 1 of Rostov-on-Don - 100 beds, polyclinic of the Municipal Budgetary Institution of Health No. 1 of Rostov-on-Don - 100 beds Hospital No. 1 in Rostov-on-Don, burn center emergency hospital No. 2 in Rostov-on-Don), laboratory of the regional blood transfusion station, training rooms

(12) for student work, equipped with a set of tables and posters, a lecture hall with 120 seats, equipped with a multimedia complex (laptop, projector, screen), a computer class with 14 seats, a medicine simulation room equipped with a mannequin, a dressing table, and instruments.

7.2. Technical and electronic means. During the course of mastering the discipline, the following technical and electronic means are used:

- Electronic presentations of lectures
- Sets of posters (“Basics of resuscitation”, “Cancer”, “Bedsore”, “Diseases of the digestive system”, “Skin”, “Deep vein thrombosis”, “Hand and wrist”)
- Full-size manikin for performing catheterization, probing and dressing skills
- Dummy upper limb for performing injection skills, applying and removing sutures
- Set of dummies “Wounds”
- Computer class for 12 seats

No.	Name of special premises and premises for independent work	Equipment of special rooms and rooms for independent work
1.	<p>344010, Rostov region, Rostov-on-Don, <i>etc.</i> Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Liter 0A, basement) Lecture room No. 4. Classroom for conducting lecture-type classes in the discipline “General surgery”</p>	<p>The premises are equipped specialized educational furniture tables-1, chairs-95 Technical training aids, employees for representation educational informationbig Audience: Core E Workstation7400monitor mouse-1; X-ray viewer N-48-1</p>
2.	<p>344010, Rostov region, Rostov-on-Don, <i>etc.</i> Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor) Auditorium No. 23a (study room No. 3). Class room practical type, group consultationsindividual consultations, currentcontrol of intermediate certification discipline "General Surgery"</p>	<p>The premises are equipped specialized educationalfurniturechairs-10. A set of demonstration equipment and educational visual aids, providing thematic illustrations, negatoscope-1.</p>

3.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor)</p> <p>Auditorium No. 21a (study room No. 4).Class room practical type, group consultationsindividual consultations, currentcontrol of intermediate certification discipline "General Surgery"</p>	<p>The premises are equipped specialized</p> <p>educationalfurniturechairs-10. A set of demonstration equipment and educational visual aids, providing thematic illustrations, negatoscope-1.</p>
4.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor)</p> <p>Auditorium No. 21b, 21e, 21v121g (study room No. 5). A room for conducting practical classes, group consultations, individual consultations, ongoing monitoring of intermediate certification in discipline "General Surgery"</p>	<p>Room</p> <p>staffedspecialized</p> <p>educationalfurniture - chairs-10. Set of demo equipment and educational visual aidsbenefits, providingthematic illustrations, X-ray viewer-1.</p>
5.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor)</p> <p>Auditorium No. 13a, 13b (study room No. 6). A room for conducting practical classes, group consultations, individual consultations, current control of intermediate certification in the discipline "General Surgery"</p>	<p>The premises are equipped specialized</p> <p>educationalfurniture - chairs-10. A set of demonstration equipment and educational visual aids, providing thematic illustrations, negatoscope-1.</p>
6.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor)</p> <p>Auditorium No. 13b (study room No. 7).Class room practical type, group consultationsindividual consultations, current control of intermediate certification Bydiscipline "General Surgery"</p>	<p>Room</p> <p>staffedspecialized</p> <p>educationalfurniture - chairs-10. Set of demo equipment and educational visual aidsbenefits, providingthematic illustrations, X-ray viewer-1.</p>
7.	<p>344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/ Tekucheva105/243/264(No. 41, Letter 0, basement floor)</p> <p>Auditorium No. 15 (study room No. 8).</p>	<p>Room</p> <p>staffedspecialized</p> <p>educationalfurniture - chairs-10. Set of demo equipment and educational visual aids benefits providing</p>

	A room for conducting practical classes, group consultations, individual consultations, ongoing monitoring of intermediate certification in discipline "General Surgery"	thematic illustrations, X-ray viewer-1.
8.	344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Letter 0, basement floor) Auditorium No. 46 (study room No. 9). Class room practical type, group consultations individual consultations, current control of intermediate certification By discipline "General Surgery",	The premises are equipped specialized educational furniture - chairs-10. A set of demonstration equipment and educational visual aids, providing thematic illustrations, negatoscope-1.
9	344010, Rostov region, Rostov-on-Don, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Letter 0, basement floor) Auditorium No. 50 (Training room No. 2, computer lab). Classroom for conducting classes on computer control discipline "General Surgery".	The premises are equipped specialized furniture tables, chairs – 12. Linux computer 1. LG 13 monitor. Asus laptop 1. WI FI ORTION access point 12. BenQ MX661 projector
10.	344010, Rostov region, Rostov-on-Don, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Liter O, 1st floor) Auditorium No. 19a, 20e (Training room No. 1) Class room practical type, group consultations individual consultations, current control of intermediate certification discipline "General Surgery",	Furniture set "Vector 4"
elev en.	344010, Rostov region, Rostov-on-Don, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Liter O, 2nd floor) Auditorium No. 38 (Training room No. 10) Class room practical type, group consultations individual consultations, current control of intermediate certification discipline "General Surgery"	Room staffed specialized educational furniture - chairs-10. Set of demo equipment and educational visual aids benefits, providing thematic illustrations, X-ray viewer-1.
12.	344010, Rostov region, Rostov-on-Don, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Liter O, 2nd floor) Auditorium No. 37 (Training room No. 11)	Room staffed specialized educational furniture - chairs-10. Set of demo equipment and educational visual aids benefits,

	Class room practical type, group consultations	providing
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	individual consultations, ongoing monitoring of intermediate certification in the discipline "General Surgery"	thematic illustrations, X-ray viewer-1.
13.	344010, Rostov region, Rostov-on-Don, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Liter O, 2nd floor) Auditorium No. 25a (Training room No. 12) Class room practical type, group consultations individual consultations, current control of intermediate certification discipline "General Surgery"	Room staffed specialized educational furniture - chairs-10. Set of demo equipment and educational visual aids benefits, providing thematic illustrations, X-ray viewer-1.
14.	344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38/57-59/212-214 (No. 41, Liter A-Ya, 2nd floor, 4th floor, Liter B-A, 6th floor) 344022, Rostov region, Rostov-on-Don, st. Adygei/Pushkinskaya 12/191. Special premises For independent work - library reading rooms, physics department auditorium, Department of Automation and Quality Monitoring training in the discipline "General Surgery"	Computer equipment with an Internet connection and access to the EIOS RostSMU
15.	344010, Rostov region, Rostov-on-Don, pr. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Letter 0, basement floor) Auditorium No. 22 (student wardrobe). Room for storing clothes of students in the discipline "General Surgery"	
16.	344010, Rostov region, Rostov-on-Don, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Letter 0, basement floor) Audience No. 49 (practical skills room) A room for conducting practical classes, group consultations, individual consultations, ongoing monitoring of intermediate certification in the discipline "General Surgery".	The premises are equipped sets of demonstration equipment and educational visual aids benefits, providing thematic illustrations: dummy upper limb for performing injections and suturing - 1, full-size human phantom for performing catheterization and probing of physiological orifices and applying dressings - 1, set dummies "Wounds" - 1.
17.	344010, Rostov region, Rostov-on-Don, etc. Voroshilovsky/Varfolomeeva/Tekucheva 105/243/264 (No. 41, Letter 0, basement floor) Auditorium No. 51	Storage furniture educational equipment: cabinet - 2

	Storage room And preventive maintenance of educational equipment in the discipline "General Surgery"	
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