

SYLLABUS

INTERNATIONAL EUROPEAN
UNIVERSITY



SCHOOL OF
MEDICINE

GENERAL SURGERY

2023



SYLLABUS



Discipline				
		GENERAL SURGERY		
Teacher(s)				
		Gennadiy Dmitrievich Babenkov		
Profile of the teacher(s)				
		https://medicine.ieu.edu.ua/pro-yemsh/kafedry/kafedra-klinichnykh-dystsyplin		
Consultations				
Face-to-face consultations		Second Thursday of the month from 15:00 to 16:00		
Online consultations		Fourth Friday of the month from 15:00 to 16:00		
Contact phone number				
		+380 954110441		
E-mail				
		genadiybabenkov@ieu.edu.ua		
Discipline page				
		https://medicine.ieu.edu.ua/pro-yemsh/kafedry/kafedra-klinichnykh-dystsyplin		
Form of final control		test	differentiated credit	exam

☐☐☒

1 Brief summary of the discipline

"General Surgery" is a clinical discipline, during the study of which students acquire basic theoretical knowledge

students acquire basic theoretical knowledge on the organisation of surgical care, desmurgy, organisation of sanitary and epidemiological regime in a surgical clinic, bleeding and its control, transfusiology, anaesthesiology and resuscitation, various traumatic lesions, surgical infection, transplantation, oncology, examination of a surgical patient, patient care, etc. Mastering the theoretical material is accompanied by the acquisition of relevant integral, general and professional competences.

2 Prerequisite for the course

The discipline "General Surgery" is based on the knowledge gained by students in the study of such fundamental disciplines as anatomy, histology, physiology, pathological anatomy, pathological physiology, propedeutics of internal medicine, pharmacology, It also lays the foundation for the study of clinical surgery, traumatology and orthopedics, urology, neurosurgery, obstetrics, gynaecology, anaesthesiology, intensive care and other disciplines that involve the use of surgical methods of treatment.

3 Purpose and objectives of the discipline

The purpose of teaching the discipline "General Surgery" is to provide students with knowledge of the organisation of surgical care, recognition of the main pathological processes and injuries, the basics of clinical examination of surgical patients and the principles of surgical treatment.

The main objectives of the discipline "General Surgery" are: - mastering the basic measures necessary to organise work in the surgical department and ensure the prevention of the occurrence and spread of hospital-acquired infections; - acquiring practical skills in applying bandages using various dressings; Acquiring practical skills to provide first aid in such conditions as bleeding, closed soft tissue injury, bone fracture, dislocation, prolonged compression syndrome, wound, burn, frostbite; --- Acquiring practical skills to prepare and transfuse donor blood components; Acquisition of knowledge on the basics of local and general anaesthesia, the ability to choose the method of anaesthesia depending on the patient's condition and existing surgical pathology; acquisition of practical skills for diagnosis and differential diagnosis of various surgical infectious processes, the ability to choose a treatment programme and prophylaxis for surgical infection; to acquire knowledge of the basics of plastic surgery and transplantation, to master the deontological and legal aspects of transplantation; to acquire skills and abilities to examine a surgical patient and record the results in the relevant medical documentation; to form moral, ethical and deontological qualities in professional communication with the patient.

4 Learning outcomes

PLO-1	Have a thorough knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integrating knowledge. To be responsible for professional development, the ability to further professional learning with a high level of autonomy
PLO-3	Specialised conceptual knowledge that includes scientific achievements in the field of healthcare and is the basis for research, critical understanding of problems in the field of medicine and related interdisciplinary issues
PLO-4	Identify and identify the leading clinical symptoms and syndromes (according to list 1); using standard methods, using preliminary data from the patient's history, examination of the patient, knowledge of the person, his/her organs and systems, establish a preliminary clinical diagnosis of the disease (according to list 2).

4	Learning outcomes
PLO-5	Collect complaints, anamnesis of life and disease, assess the patient's psychomotor and physical development, condition of organs and body systems, based on on the basis of laboratory and instrumental examination results, evaluate information on the diagnosis (according to list 4), taking into account the patient's age.
PLO-6	Establish the final clinical diagnosis by making an informed decision and analysing the obtained subjective and objective data of clinical, additional examination, differential diagnostics, in compliance with the relevant ethical and legal standards, under the supervision of a supervising physician in a healthcare facility (according to list 2).
PLO-7	To prescribe and analyse additional (mandatory and optional) methods of examination (laboratory, functional and/or instrumental) (according to the list 4), patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).
PLO-8	Determine the main clinical syndrome or what causes the severity of the victim's/injured person's condition (according to list 3) by making an informed decision and assessing the person's condition in any circumstances (in a healthcare facility, outside the facility). healthcare facility, outside the facility), including in an emergency situation and hostilities, in the field, in conditions of lack of information and limited time.
PLO- 9	Determine the nature and principles of treatment of patients (conservative, surgical) with diseases (according to list 2), taking into account the patient's age, in a health care facility, outside it and at the stages of medical evacuation, including in the field, based on a preliminary clinical diagnosis, observing the relevant ethical and legal standards, by making an informed decision according to existing algorithms and standard schemes, if necessary, expanding the standard scheme to be able to justify personalised recommendations under the supervision of a supervising physician in a medical institution.
PLO- 10	Determine the necessary work, rest and nutrition regime based on the final clinical diagnosis, in compliance with relevant ethical and legal standards, by making an informed decision according to existing algorithms and standardised schemes.
PLO- 14	Determine the tactics and provide emergency medical care for urgent conditions (list 3) in a time-limited environment in accordance with existing clinical protocols and standards of care.
PLO- 17	Perform medical manipulations (according to List 5) in a healthcare facility, at home or at work based on a preliminary clinical diagnosis and/or patient's condition indicators by making an informed decision, in compliance with the relevant ethical and legal standards.
PLO- 18	Determine the state of functioning and limitations of a person's vital activity and the duration of disability with the preparation of relevant documents, in a healthcare facility, based on data on the disease and its course, the person's professional activity, etc. Maintain medical records for the patient and the population on the basis of regulatory documents.
PLO- 21	Find the necessary information in professional literature and databases from other sources, analyse, evaluate and apply this information.
PLO- 22	Apply modern digital technologies, specialised software, statistical methods of data analysis and statistical methods of data analysis to solve complex healthcare problems.
PLO- 24	Organise the necessary level of individual safety (own and those under their care) in the event of typical hazardous situations in the individual field of activity. and those he/she cares about) in the event of typical hazardous situations in the individual field of activity.



SYLLABUS



PLO- 25	Clearly and unambiguously communicate own knowledge, conclusions and arguments on healthcare and related issues to specialists and non-specialists.
PLO- 27	Communicate fluently in the state language and English, both orally and in writing, to discuss professional activities, research and projects.

5 Кредити ECTS

The discipline takes 90 hours of 3 ECTS credits to study.

6 Structure of the discipline

Topic	Lecture	Practice	Indiv.
Topic 1: Asepsis in surgery. Modern methods of antisepsis and their characteristics.	2	2	2
Topic 2. Desmurgia	-	2	2
Topic 3. Preoperative period. Surgical operation. Fundamentals of minimally invasive and organ-preserving surgery.	2	2	3
Topic 4. Postoperative period	-	2	2
Topic 5. Local anaesthesia in surgical practice. Principles of general anaesthesia in surgery	2	2	2
Topic 6: Fundamentals of resuscitation.	-	2	3
Topic 7. The concept of bleeding and blood loss. Classification of bleeding.	1	2	2
Topic 8: The concept of blood groups and Rh factor. Methods of their determination.	1	2	3
Topic 9: Components, blood products and blood substitutes, haemotransfusion and blood substitute transfusion techniques. Errors and complications in the transfusion of blood and blood substitutes.	2	2	3
Topic 10. Clinical, laboratory and instrumental methods of examination of surgical patients.	-	2	2
Topic 11. Closed injuries of soft tissues, skull, chest and abdomen. Semiotics of bone and joint injuries and joints	-	2	3
Topic 12: Polytrauma. Multiple injuries, combined and combined injuries. Traumatic shock. Prolonged compression syndrome: pathogenesis, clinic, diagnosis, first aid, principles of treatment.	2	2	3
Topic 13. Semiotics of wounds. Phases of the wound process. Treatment of fresh wounds. Basic principles of treatment of infected and purulent wounds		2	3
Topic 14: Burns, classification, clinic. Burn injury. Frostbite.	2	2	3



SYLLABUS



Topic 15. Semiotics of acute nonspecific surgical soft tissue infection. Semiotics of purulent diseases of the hand, bones, joints and synovial bags.		2	3
Topic 16. Semiotics of acute and chronic specific surgical infection.	2	2	3
Total	3,0 credits / 90 hours	16	32

7

Signs of discipline

Term of Teaching	Semester	International disciplinary integration	Course (year of study)	Cycles: general training/ vocational training/ free choice
0,5 year	V	Yes	3st	Vocational training

8

Evaluation system and requirements

Current control is carried out on the basis of control of theoretical knowledge, practical skills and abilities. The forms of current control are: oral questioning (frontal, individual, combined), interview; practical testing of the formed professional skills (conducted on the basis of the results of solving clinical cases, working with medical documentation, performing practical skills, working at the patient's bedside); test control ("open" and "closed" test tasks).

Current control is mandatory. When assessing the mastery of each topic in all disciplines of the curriculum, the student is given grades on a 4-point (traditional) scale for current learning activities, taking into account the approved assessment criteria for the discipline. All types of work provided by the curriculum are taken into account. The student must receive a grade for each topic. The teacher conducts a survey of each student in the group at each lesson and gives a grade in the student's attendance and performance record on a traditional scale ("5", "4", "3", "2").

When assessing a student's current learning activities, 20% of the grade is based on the student's independent work, which takes into account the knowledge of the topic of the independent lesson and the work in the notebook.

The final (summative) control is carried out: in the form of a written control work, which includes test tasks, theoretical questions; control of practical skills (solving clinical cases, assessing the correctness of practical skills - a practice-oriented exam).

In accordance with the specifics of professional training, preference is given to test and practice-oriented control.

The final control of the discipline is based on the control of theoretical knowledge, practical skills and abilities.

The exam is a form of final control of the student's mastery of theoretical and practical material in the discipline.

The maximum number of points for a discipline is 200 points. The ratio between the results of the assessment of current learning activities and the final control of knowledge is 60% and 40%.

The study of the discipline ends with the final control in the form of a differential test.

QR Code: <https://ieu.edu.ua/docs/pol-ornzvoems.pdf>

9

Conditions for admission to the final control

Only those students who have no academic debt (all missed classes have been made up) and whose average grade for the current academic activity in the discipline is at least "3" are allowed to take the differential examination.

The maximum number of points that a student can score for current academic activities to be admitted to the exam is 120 points and is determined as the sum of the arithmetic mean of all grades received in the semester.



SYLLABUS



9

Conditions for admission to the final control

The minimum number of points that a student must score for current academic activities to be admitted to the exam is 72 points. Recalculation of the average grade for current academic performance (on a 120-point scale)

QR Code: <https://ieu.edu.ua/docs/pol-ornzvoems.pdf>

10

Discipline policy

A prerequisite for a successful educational process is personal compliance by each student of a higher education institution with the rules of conduct accepted both at the university and in society. The future doctor must have a high level of behavioural culture, behave with dignity, tact, and self-control.

The student must be on time for classes and wear academic medical uniform (white coat or surgical suit). The student must adhere to the schedule of the educational process, come to class prepared on the topic of the lesson. During the class, the student should not leave the classroom without the permission of the teacher; use a mobile phone and other means of communication and information without the permission of the teacher, engage in outside activities, distract other students. When writing different types of papers, students must adhere to the rules of academic integrity.

The teacher must adhere to the implementation of the curriculum, objectively assess students' knowledge and skills. During the educational process, the teacher must be aware of anti-corruption measures and not engage in corrupt activities.

11

Policy on absences and late assignments

A student who, for valid reasons, confirmed by documentary evidence, was not subject to current control has the right to pass the current control within two weeks after returning to study.

A student who was absent from classes without valid reasons, did not participate in the current control activities, did not eliminate academic debt, is not allowed to take the final semester control of knowledge in this discipline, and on the day of the exam, the academic staff member gives the grade "not admitted" in the examination record. Retaking the differentiated test in the discipline is assigned subject to the completion of all types of educational, independent (individual) work provided for in the working curriculum of the discipline and is carried out in accordance with the schedule of liquidation of academic debt approved by the directorate.

QR Code: <https://ieu.edu.ua/docs/pol-ornzvoems.pdf>

12

Academic integrity policy

Participants in the educational process are guided by the principles of academic integrity

QR Code: <https://ieu.edu.ua/images/AndreyContent/docs/16.pdf>

13

Recommended sources of information

Basic:

1. General surgery: a textbook for students of higher education institutions / edited by professors: Y.S. Bereznitsky, M.P. Zakharash, V.G. Mishalov, V.O. Shidlovsky - 2nd edition - Vinnytsia: Nova Knyha, 2020. 344 p. : ill.
2. General Surgery: a basic textbook [for students of higher education institutions - medical universities, institutes and academies] / edited by S.D. Khimich, M.D. Zheliba ; S.D. Khimich, M.D. 26Zheliba, I.D. Gerich [et al.
3. Surgery. In 2 volumes: textbook [for students of higher medical schools]. Vol. 1 / edited by P. Kondratenko, V. Rusin; S. Boyko, O. Boldizhar, P. Boldizhar [et al: New Book, 2019. 702 p.
4. Surgery: a textbook in two volumes [for students enrolled in higher medical schools and postgraduate education institutions of the Ministry of Health of Ukraine in the specialties of "Medical care" and "Nursing"]. Vol. 1: General surgery with the main types of surgical pathology. Treatment of a patient in a



SYLLABUS



- surgical hospital / R.O.Sabadyszyn, V.O.Ryzhkovskiy, O.V.Markovych [et al: Nova Knyha, 2018. 782 p.
5. Surgery: a textbook in two volumes [for students enrolled in higher medical schools and postgraduate education institutions of the Ministry of Health of Ukraine in the specialities of "Medical care" and "Nursing"]. T. 2 : Special surgery / R.O. Sabadyszyn, V.O. Ryzhkovskiy, O.V. Markovych [et al: Nova Knyha, 2018. 588 p.
6. Pantyo V. I. General surgery: a textbook / V. I. Pantyo, V. M. Shimon, O. O. Boldi Zhar - Uzhhorod: IBA, 2020. - 464 p.
7. Surgery: textbook for students of higher medical educational institutions / K. M. Amosova [et al: Ya. S. Bereznyts'kyy, V. G. Mishalov, M. P. Zakharash ; reviewed by V. V. Grubnik, P. D. Fomin. - 3rd ed. - Vinnytsia: Nova Knyha, 2021. - 712 p.
8. Vascular and Endovascular Surgery at a Glance / by Morgan Mcmonagle, Matthew Stephenson/2014/160 p.
9. Maingot's Abdominal operations. 13th edition/ Stanly W. Ashley, Michael G.Zinner/ 2018.
10. Purulent-septic surgery: a textbook / S.D. Shapoval - K. : VSV "Medicine", 2019. 192 p.

Additional.

1. Babkina O. Diagnostics of injuries of the digestive tract in mechanical trauma: monograph / O. Babkina, I. Korobko. - 2018.
2. Babkina O. P. Study of abdominal trauma by laboratory methods: monograph / O. Babkina. - 2018.
3. Danchyn A.O. Principles of medical triage, medical care, and determination of the order of evacuation of wounded with combat neurosurgical injuries in the system of medical evacuation support of the Armed Forces of Ukraine: method. Guidelines / A. Danchyn, O. Danchyn ; edited by I. Khomenko - Kyiv : Lazurit-Polygraph, 2016. 40 p. : tables, illustrations.
4. Emergency medical care for servicemen at the pre-hospital stage in armed conflicts : textbook / M. I. Badiuk [et al.
5. General surgery with the main types of surgical pathology. Treatment of a patient in a surgical hospital / R. Sabadyszyn [et al.
6. Application of innovative technologies in the surgical treatment of purulent necrotic wounds of soft tissues / O. M. Petrenko [et al. Kyiv : LAT and K, 2018. 254 p. : tab.
7. Surgery : textbook in two volumes. Vol. 1 General surgery with the main types of surgical pathology. Treatment of a patient in a surgical hospital / R. O. Sabadyszyn [et al: Nova Knia, 2018. 782 p. : tab.

13

Recommended sources of information

1. Surgery of purulent-necrotic complications in diabetic foot syndrome: monograph / I. Dziubanovskiy [et al: Ukrmedkn., 2018. 316 p.
2. Urgent abdominal surgery: a textbook for medical students and surgeons during the passage of TU cycles / V.I. Lyakhovsky, I.I. Nemchenko, O.M. Lyulka et al: LLC "Firm "Techservice", 2018. - 224 p.
3. Moore K. L. Clinical Anatomy by Regions / K. L. Moore, A. F. Dalley, A. M. R. Agur. - 8th ed. - Philadelphia [etc.]: Wolters Kluwer, 2018. - XXXV, 1153 p. : il. - (International edition.
4. Current Diagnosis & Treatment: Surgery. 15th edition (2020). Edited by Gerard
5. M. Doherty. Copyright © 2020 by McGraw-Hill Education.
6. Schwartz's Principles of Surgery 11th Edition, (2 Vols. Set) International Edition. F. Charles Brunicaudi. Copyright © 2020 by the McGraw-Hill Companies.
7. 27. USMLE Step 2 CK Lecture Notes 2022: 5-book set (Kaplan Test Prep)

Information resources:

Coursera

Lectures by world-class professors and reinforced through interactive exercises. coursera.org CSurgeries

Library of surgical procedures created by surgeons for surgeons. csurgeries.com DNA Tube

Videos, animations, and slideshows from scientific studies, lectures, and seminars. dnatube.com EyeTube

High quality ophthalmic surgical videos and panel discussions. eyetube.net Free Medical Videos

Archive of popular and engaging medical videos from around the Internet. freemedicalvideos.com

FutureLearn: Healthcare and Medicine

Offers a diverse selection of courses from leading European universities. futurelearn.com - Geeky Medics

Free videos, revision notes, OSCE guides, and MCQs for medical students. geekymedics.com GrepMed



SYLLABUS



Community-sourced medical image and video repository. grepmed.com HealthTalk.org
Videos of patients sharing real life experiences with various health conditions. healthtalk.org Khan Academy
Academic videos and lectures on medicine and the healthcare system. khanacademy.org Mayo Clinic Videos
Surgical procedure videos and interviews with Mayo Clinic doctors, sorted by specialty.
medprofvideos.mayoclinic.org
MedicalVideos.com
Library of medical videos covering everything from anesthesia to vascular x-ray imaging.
medicalvideos.com
Medscape Video
Expert interviews and perspectives as well as procedure videos. medscape.com MEDtube
Education platform offering thousands of videos for healthcare professionals. medtube.net MIT Open
CourseWare
Lectures and course materials for students, teachers, and self-learners. ocw.mit.edu OnlineMedEd
70+ hours of whiteboard lessons covering 250+ topics across 19 specialties. onlinemeded.org

13

Recommended sources of information

PBS: Health Videos
Free videos from your favorite PBS programs, including NOVA and Frontline. pbs.org TED Health
Fascinating presentations by the world's leading thinkers and doers. ted.com The Doctor's Channel
Short and to-the-point video clips on the latest medical news, ideas, and
information. thedoctorschannel.com VuMedi
Physician only site providing thousands of videos from leading institutions. vumedi.com - Registration
Required
WebSurg
European site created by surgeons for surgeons, in order to help with surgical training. websurg.com

14

Tips for successful studying on the course

If you want to be successful in this discipline, you need to:

1. Be active, persistent, inquisitive, consistent
2. Be tidy and polite
3. Systematically prepare for practical classes
4. Perform tasks for independent work and defend them in class.
5. To be present at the class in a medical gown
6. To solve tests and tasks independently, to work actively in class.
7. Prepare presentations and crosswords on the discipline. Participate in student scientific conferences and engage in research work in the department's scientific circles.

I wish you perseverance, dedication and motivation to learn. And then success will come to you! See you in class!

Don't forget your medical gowns!