



Syllabus of discipline

1. General information	
Faculty name	Dentistry
Educational program (industry, specialty, level of higher education, form of education)	22 Healthcare, 221 Dentistry, second (master's) level of higher education, full-time
Educational year	Third
Name of discipline, code (e-mail address on LNMU website)	Surgery, OK 32 https://new.meduniv.lviv.ua/uploads/repository/kaf/kaf_gensurgery/02.%D0%9D%D0%B0%D0%B2%D1%87%D0%B0%D0%BB%D1%8C%D0%BD%D1%96%D0%BF%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%B8/02_%D0%A1%D1%82%D0%BE%D0%BC%D0%B0%D1%82%D0%BE%D0%B%D0%BE%D0%B3%D1%96%D1%87%D0%BD%D0%B8%D0%B9_%D1%84%D0%B0%D0%BA%D1%83%D0%BB%D1%8C%D1%82%D0%B5%D1%82/03_%D0%BA%D1%83%D1%80%D1%81/01_%D0%A5%D1%96%D1%80%D1%83%D1%80%D0%B3%D1%96%D1%8F.pdf
Department (name, address, phone, e-mail)	Department of General surgery, Commercial non-profit enterprise "Lviv city emergency hospital", 1st surgical department (clinical base). Lviv, 9 Mykolaychuk street, tel.: +38-032-258-74-86, fax: +38-032-291-72-31 kaf_gensurgery@meduniv.lviv.ua
Head of the Department (contact e-mail)	Andryushchenko Victor Petrovych, MD, Doc Sci, professor. Tel. +38-032-291-72-31, e-mail: kaf_gensurgery@meduniv.lviv.ua
Educational year (year when discipline is learnt)	Third
Semester (semester when discipline is learnt)	6
Discipline/module type (obligatory/selective)	Obligatory
Teachers (names, surnames, scientific degrees and titles, contact e-mail)	Kushta Yuriy Fedorovych, MD, PhD, associate professor Matviychuk Oleh Bohdanovych, MD, Doc Sci, associate professor Mahlyovanyy Anatoliy Vasylyovych, MD, PhD, associate professor Paranyak Mykola Romanovych, MD, PhD, assistant professor kaf_gensurgery@meduniv.lviv.ua
Erasmus (availability of discipline for students within the program Erasmus+)	No
Person responsible for the syllabus (person to be commented on the syllabus, contact e-mail)	Kushta Yuriy Fedorovych, MD, PhD, associate professor kaf_gensurgery@meduniv.lviv.ua

Amount of ECTS credits	3
Number of hours (lectures / practical classes / independent work of students)	90
Education language	English
Consultations	According to schedule
Address, telephone and rules of operation of the clinical base (if necessary)	Department of General surgery, Commercial non-profit enterprise "Lviv city emergency hospital", 1st surgical department (clinical base). Lviv, 9 Mykolaychuk street, tel.: +38-032-258-74-86, fax: +38-032-291-72-31 kaf_gensurgery@meduniv.lviv.ua

2. Brief annotation of course

The discipline "Surgery" provides students of the Faculty of dentistry of the 3rd year of study the possibility to acquire knowledge and practical skills that allow the specialist to quickly and correctly navigate in situations where patients have acute surgical pathology and other emergencies, avoid fatal mistakes or waste of time and take priority steps that will save a person's life and / or become a good basis for his successful further treatment in the hospital. Mastering the discipline is based on the knowledge gained by students in the study of anatomy, biology, physiology, general surgery and other basic subjects. When mastering the discipline "Surgery", it is rational to introduce into the educational process modern world developments and standards in surgery and emergency care with extensive use of comprehensive practice-oriented learning. The curriculum of the discipline "General surgery" is compiled in accordance with the requirements of Laws of Ukraine: "On Education", "On Higher Education", "On Scientific and Scientific-Technical Activity", "On Information"; regulations of the Cabinet of Ministers of Ukraine; orders of the Ministry of Education and Science and the Ministry of Health of Ukraine and other current legislation governing the organization of the educational process and the training of specialists in higher medical educational institutions of the Ministry of Health of Ukraine, in particular, Letter of the State Institution 01-9 / 87; Letter of the Ministry of Health of Ukraine dated 26.07.2016 №23-01-9 / 268; Order of the Ministry of Education and Science of Ukraine dated 16.10.2009, №943 "On introduction of the European credit transfer system in higher educational institutions of Ukraine"; Resolution of the Cabinet of Ministers of Ukraine dated 29.04.2015 №266 "On approval of the list of branches of knowledge and specialties in which higher education is conducted", Letter of the State Institution "Central Methodical Cabinet for Higher Medical Education of the Ministry of Health of Ukraine" dated 12.01.2018, № 23-01-9 / 7; Order of the Rector of Danylo Halytskyi Lviv national medical university dated 15.12.2017, № 3474-z.

3. The purpose and objectives of the course

1. The purpose of the course - the acquisition of theoretical and practical knowledge of etiology, pathogenesis, typical clinical manifestations, diagnostic methods, conservative and surgical treatment, rehabilitation of surgical pathology within the relevant training program of a dentist, taking into account the peculiarities of this specialty.
2. Learning objectives - mastering the knowledge, skills and abilities to ensure the adaptation of students to patients with a surgical pathology; ability to choose appropriate medical and diagnostic manipulations, provide emergency care to patients with surgical pathology.
3. Competences and learning outcomes, the formation of which provides the study of the discipline:
 - integral: the ability to solve complex tasks and practical problems in the field of professional activity 22 "Healthcare", which involves the application of certain theoretical knowledge, skills, practical skills and techniques of the relevant professional direction;
 - general: ability to apply knowledge in real-life situations; conducting research at the appropriate level; adaptation and acting in new situations, activities in autonomous and command work, evaluation and quality assurance of work performed; communication both orally and in writing; search, process and analysis of information from various sources; identification and solution of

problems; making substantiated decisions; forming basic ideas that promote the development of general culture and socialization of the individual, ethical values; ability to understand the causal links of society with their use in professional and social activities on the basis of fundamental sciences, as well as activities in accordance with the basic safe and ethical principles (motives).

- special (professional, subject): understanding of the basic principles of the organization of surgical care to the population; clinical-laboratory and additional methods of diagnosis of surgical pathology; etiology, pathogenesis, clinic, diagnosis and methods of treatment of surgical diseases (within the curriculum); etiological, pathogenetic factors, clinical manifestations and diagnosis of emergencies; tactics of emergency surgical care; organization of medical and evacuation measures, first aid for various types of injuries.

4. Course details

1. The subject of study of the discipline are the main manifestations of surgical diseases, the principles of correct interpretation of clinical information obtained during the examination of the patient and the basic principles of treatment of patients with surgical pathology.

2. Interdisciplinary connections in the study of the discipline: normal and pathological anatomy, normal and pathological physiology, histology and pharmacology, propaedeutics of internal medicine, pharmacology.

3. Learning outcomes: Integrative final program learning outcomes, the formation of which is facilitated by the discipline: apply knowledge in practical situations; perform experimental research and demonstrate skills on professional topics; adapt to new situations; work effectively both autonomously and as part of a team; be responsible for the work performed in order to achieve the set goal; use information and communication technologies to solve various scientific and professional problems; search for information in various sources to solve problems of the specialty; make substantiated decisions with the awareness of their consequences; show the ability of public, business and scientific communication; adhere to the code of professional ethics, moral norms and values, rules of etiquette; understand the basic principles of labour protection and safety in the field of professional activity; know the techniques of first aid for various types of injuries, principles of first aid for emergencies and accidents; ability to diagnose and choose appropriate medical and diagnostic manipulations; provide emergency care to patients with surgical pathology.

Learning outcomes for the discipline: mastering the basic principles of surgical care; clinical-laboratory and additional methods for diagnosing surgical pathology of the body; etiology, pathogenesis, clinic, diagnosis and methods of treatment of surgical diseases (within the curriculum); etiological, pathogenetic factors, clinical manifestations and diagnosis of emergencies; tactics of emergency surgical care; organization of medical and evacuation measures; conducting the main methods of general clinical examination of the patient (survey, examination, palpation, auscultation, percussion); determining the scope of additional studies and analysis of the data to establish a preliminary diagnosis; performing general medical manipulations (dressings, injections, gastric lavage, hemostasis, local anesthesia etc.); providing the necessary assistance in case of short-term loss of consciousness, collapse, shock, coma, allergic reactions, asphyxia, acute abdomen, trauma, bleeding, burns, frostbite; assistance in emergency operations; keeping medical records.

5. Program learning outcomes

List of learning outcomes

Code of learning outcome	The content of the learning outcome	Reference for code of learning outcome
Um-1	Collect data on patient complaints, anamnesis of illness, life history, conduct and evaluate the results of physical examination.	PR-1
Um-2	Evaluate information about the diagnosis, applying a standard procedure based on the results of laboratory and instrumental studies.	PR-2
Um-3	Highlight the leading clinical symptom or syndrome. Establish the most probable or	PR-3

	syndromic diagnosis of the disease. Assign laboratory and / or instrumental examination the patient. Carry out differential diagnosis of diseases. Establish a preliminary and clinical diagnosis.	
AV-1	Determine the necessary mode of work and rest in the treatment of the disease.	PR-4
AV-2	Determine the necessary therapeutic nutrition in the treatment of the disease.	PR-5
K-1	Determine the principles and type of treatment (conservative, operative) of disease.	PR-6
AV-3	Determine the tactics of emergency medical care based on the diagnosis of emergency condition.	PR-7
AV-4	Provide emergency medical care based on an emergency diagnosis.	PR-8
AV-5	Provide emergency medical care based on an emergency diagnosis. Organize medical evacuation measures among the population and military persons, taking into account the existing medical and evacuation support systems.	PR-9
K-2	Perform medical manipulations.	PR-11
K-3	Investigate volumes and effectiveness activities of a doctor, department, healthcare institution; identify faults in activities and their reasons. Carry out the selection and use of unified clinical protocols for the provision of medical care, developed on the basis of evidence-based medicine; develop and use local health care protocols. Carry out quality control of medical care; identify factors that hinder the improvement of the quality and safety of medical care. Estimate the cost of medical services; substantiate the choice of an adequate method of payment and the choice of rational forms of organization of health care services. Apply methods of economic analysis when choosing methods of diagnosis, prevention, treatment, rehabilitation.	PR-19
K-4	Organize the work of medical staff to form rational medical routes of patients; organize interaction with colleagues, organizations and institutions; promote medical services.	PR-20
K-5	Form goals and determine the structure of personal activities.	PR-21
AV-6	Follow a healthy lifestyle, use the techniques of self-control.	PR-22

Zn-1	Be aware of and guided in own activities by civil rights, freedom and responsibilities to raise the general educational and cultural level.	PR-23		
Zn-2	Adhere to the requirements of ethics, bioethics and deontology in own professional activities.	PR-24		
AV-7	Organize the necessary level of safety in typical dangerous situations in the individual field of activity.	PR-25		
6. Course format and scope				
Course form (<i>specify full-time or part-time</i>)	Full-time			
Type of lessons	Amount of hours	Amount of groups		
Lectures	10	12		
Practical	30	12		
Independent	50	12		
7. Topics and content of the course				
Code of lesson type	Topic	Content	Code of education result	Teacher
L-1	Shock. Therapy of shock. Cardio-pulmonary resuscitation in an in-patient medical facility	Information on shock, intensive care, cardio-pulmonary resuscitation techniques is covered. Training tables, presentations	K-1, K-3	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
L -2	General concepts of surgical infection. Modern principles of antibiotic therapy	Information on types of surgical infection and principles of antibiotic therapy is covered. Training tables, presentations	K-1, K-2	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
L -3	Vascular diseases	Information on the main vascular diseases is covered. Training tables, presentations	K-4	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
L -4	Abdominal hernias.	Information on herniology and methods of treatment of hernias is covered. Training tables, presentations	K-1, K-2	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
L -5	Acute surgical pathology of the abdominal cavity.	The information on acute surgical pathology of	K-1, K-2, K-5	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A.

		abdominal organs is covered Training tables, presentations		V. Paranyak M. R.
P-1	Shock. Therapy of shock. Cardio-pulmonary resuscitation in an in-patient medical facility	Know the main manifestations of shock and intensive care of shock. Be able to perform cardiopulmonary resuscitation. Appliance for practicing skills, educational films, schemes, tables, presentations	Zn-1, Zn-2, Um-1, AV-2	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-2	Acute purulent surgical soft tissue infection. Osteomyelitis. Surgical complications of diabetes. Sepsis. Principles of antibiotic therapy	Know the main manifestations of acute purulent surgical infection, sepsis, the principles of conservative and surgical treatment. Appliance for practicing skills, educational films, schemes, tables, presentations. Demonstration of thematic patients	Zn-1, Zn-2, K-2, K-3	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-3	Acute specific surgical infection. Anaerobic infection. Tetanus. Diphtheria of wounds. Anthrax. Chronic specific surgical infection.	Know the main manifestations of acute specific surgical infection, the concept of chronic specific surgical infection and methods of its prevention. Appliance for practicing skills, educational films, schemes, tables, presentations	Zn-1, K-5, AV-1, AV-2, AV-4	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-4	Mediastinitis. Etiology, pathogenesis, clinic, diagnosis, treatment. Phlegmons of the neck.	Know the main manifestations of mediastinitis and phlegmon of the neck, modern methods of treatment. Educational films,	Zn-1, Zn-2, Um-2, AV-1, K-3	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.

		schemes, tables, presentations. Demonstration of thematic patients.		
P-5	Endemic and sporadic goiter. Thyrotoxicosis. Diffuse toxic and nodular toxic goiter. Thyroiditis. Thyroid cancer.	Know the manifestations of thyroid diseases. Be able to examine patients and determine the optimal method of treatment. Educational films, schemes, tables, presentations. Demonstration of thematic patients	Zn-1, Um-3, K-5	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-6	Diseases of the breast. Acute mastitis. Dyshormonal diseases of the breast. Breast cancer.	Know the manifestations of breast diseases. Be able to examine patients and determine the optimal method of treatment. Educational films, schemes, tables, presentations. Demonstration of thematic patients.	Zn-1, Um-2, K-4, K-5	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-7	Diseases of the esophagus. Esophageal diverticula. Esophagitis. Injuries, foreign bodies of the esophagus. Cardiospasm. Burns, scarring of the esophagus. Esophageal cancer.	Know the manifestations of diseases of the esophagus. Be able to examine patients and determine the optimal method of treatment. Educational films, schemes, tables, presentations. Demonstration of thematic patients.	Zn-1, Um-2, K-4, K-5	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-8	Thrombophlebitis. Phlebothrombosis. Post-thrombophlebitic syndrome. Varicose veins of the lower extremities. Obliterating atherosclerosis. Obliterating	Know the manifestations of diseases of arterial, venous and lymphatic vessels. Be able to examine patients and determine the optimal method of treatment.	Zn-1, K-2, Um-2	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.

	endarteritis. Raynaud's disease. Lerish and Takayashi syndrome.	Educational films, schemes, tables, presentations. Demonstration of thematic patients.		
P-9	General herniology. Inguinal, femoral, umbilical, postoperative, diaphragmatic and other types of hernias. Complications of hernias.	Know the manifestations of the main types of hernias. Be able to examine patients and determine the optimal method of treatment. Educational films, schemes, tables, presentations. Demonstration of thematic patients.	Zn-1, Um-2, K-4, K-5	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-10	Acute appendicitis. Complications of acute appendicitis.	Know the manifestations of acute appendicitis. Be able to examine patients and determine the optimal method of treatment. Educational films, schemes, tables, presentations. Demonstration of thematic patients.	Zn-1, Um-2, K-4, K-5	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-11	Gallstone disease. Acute cholecystitis. Chronic cholecystitis. Minimally invasive surgery. Acute pancreatitis.	Know the manifestations of acute cholecystitis and pancreatitis. Be able to examine patients and determine the optimal method of treatment. Educational films, schemes, tables, presentations. Demonstration of thematic patients.	Zn-1, Um-2, K-3	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-12	Acute intestinal obstruction. Peritonitis.	Know the manifestations of acute intestinal obstruction and peritonitis. Be able to examine patients and determine the optimal method of	Zn-1, Um-2, K-3	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.

		treatment. Educational films, schemes, tables, presentations. Demonstration of thematic patients.		
P-13	Cure of patients. Principles of medical documentation of a surgical department	Know the scheme of examination of surgical patients and principles of medical documentation.	Zn-2, K-2, K-5, AV-2, AV-6	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-14	Cure of patients.	Know the scheme of examination of surgical patients and principles of medical documentation. Be able to have a dialogue with the patient	Zn-2, K-2, K-5, AV-2, AV-6	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
P-15	Defense of educational case history.	Be able to present a case history, make a differential diagnosis and determine the optimal method of treatment and provide recommendations for outpatient treatment	Um-1, Um-2, Um-3, AV-4, AV-7, K-5	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
S-1	-			
SRS-1	Classification of antibacterial drugs by mechanism and type of action for antibiotic prophylaxis and antibiotic therapy. Categories of surgical operations depending on the risk of infectious complications. The mechanism of preventive use of antibiotics. Principles of antibiotic prophylaxis. Criteria for drug selection for antibiotic prophylaxis. Regimens of antibiotic prophylaxis	Carry out independent preparation for the specified topic	AV-2, K-4	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.

	during surgical operations depending on the category of operations. Principles of antimicrobial therapy of surgical infections. Empirical antimicrobial therapy of surgical infection.			
SRS-2	Portal hypertension syndrome (PHS): causes, pathogenesis, classification. Clinical manifestations of PHS and its complications. Diagnosis, differential diagnosis. Conservative and surgical treatment Liver transplantation. Actions of a general practitioner in case of PHS in a patient. Rehabilitation of patients.	Carry out independent preparation for the specified topic	AV-2, K-4	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
SRS-3	Diabetic foot syndrome: causes, pathogenesis, classification. Clinical manifestations, variants of the clinical course, complications. Diagnosis, differential diagnosis. Conservative and surgical treatment of diabetic angiopathy, infected foot in diabetic neuropathy, patients with multifocal atherosclerotic arterial lesions. Actions of the doctor at detection at the patient of a syndrome of a diabetic foot. Rehabilitation of patients.	Carry out independent preparation for the specified topic	AV-2, K-4	Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.
SRS-4	Diseases of the	Carry out	AV-2, K-4	Kushta Y. F.

	<p>parathyroid and adrenal glands. Hypoparathyroidism, ulcerogenic endocrine diseases (primary hyperparathyroidism, Zolinger-Ellison syndrome), pathogenesis, clinical features, diagnosis and treatment. Adrenal diseases: Cushing's syndrome, pheochromocytoma, Addison's disease, pathogenesis, clinical features, diagnosis and treatment.</p>	independent preparation for the specified topic		<p>Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.</p>
SRS-5	<p>Socio-legal aspects of transplantology. Fundamentals of transplant immunology. Indications and contraindications to transplantation of the heart, lungs, liver, pancreas, kidneys. Methods of donor selection, storage of donor organs and their transportation.</p>	Carry out independent preparation for the specified topic	AV-2, K-4	<p>Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.</p>
SRS-6	<p>Palliative surgery, goals and objectives, psychological and ethical aspects of palliative care. Pain syndrome, classification, diagnosis. Methods of treatment of pain syndrome. Methods of palliative treatment of diseases, tumours and disorders of the digestive system. Methods of palliative treatment of diseases, tumours and disorders of the respiratory tract and mediastinum. Methods of palliative treatment of diseases, tumours and disorders</p>	Carry out independent preparation for the specified topic	AV-2, K-4	<p>Kushta Y. F. Matviychuk O. B. Mahlyovanyy A. V. Paranyak M. R.</p>

	of the genitourinary system. Methods of palliative treatment of diseases and tumors of the skin and soft tissues.			
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8. Verification of learning outcomes

Current control

is carried out during training sessions and aims to check the mastering of educational material by students (describe the forms of current control during training lessons). Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. The final grade for the current educational activity is set on a 4-point (national) scale

Code of learning result	Code of lesson type	Way of evaluation of learning results	Criteria of positive evaluation
Zn-1, Zn-2, Um-1, AV-2	P-1	Oral questioning, application of programmed control means	At least 50% correct answers
Zn-1, Zn-2, K-2, K-3	P-2	Oral questioning, application of programmed control means, demonstration of practical skills by students	At least 50% of correct answers, correct demonstration of practical skills
Zn-1, K-5, AV-1, AV-2, AV-4	P-3	Oral questioning, application of programmed control means, demonstration of practical skills by students	At least 50% of correct answers, correct demonstration of practical skills
Zn-1, Zn-2, Um-2, AV-1, K-3	P-4	Oral questioning, application of programmed control means, demonstration of practical skills by students	At least 50% of correct answers, correct demonstration of practical skills
Zn-1, Um-3, K-5	P-5	Oral questioning, application of programmed control means	At least 50% correct answers
Zn-1, Um-2, K-4, K-5	P-6	Oral questioning, application of programmed control means, demonstration of practical skills by students	At least 50% of correct answers, correct demonstration of practical skills
Zn-1, Um-2, K-4, K-5	P-7	Oral questioning, application of programmed control means, demonstration of practical skills by students	At least 50% of correct answers, correct demonstration of practical skills
Zn-1, K-2, Um-2	P-8	Oral questioning, application of programmed control means	At least 50% correct answers
Zn-1, Um-2, K-4, K-5	P-9	Oral questioning, application of programmed control means, demonstration of practical skills by students	At least 50% of correct answers, correct demonstration of practical skills
Zn-1, Um-2, K-4, K-5	P-10	Oral questioning, application of programmed control means	At least 50% correct answers
Zn-1, Um-2, K-3	P-11	Oral questioning, application of programmed control means	At least 50% correct answers
Zn-1, Um-2, K-3	P-12	Oral questioning, application of programmed control means	At least 50% correct answers
Zn-2, K-2, K-5, AV-2, AV-6	P-13	Oral questioning, application of programmed control means	At least 50% correct answers
Zn-2, K-2, K-5, AV-2, AV-6	P-14	Oral questioning, application of programmed control means	At least 50% correct answers

Um-1, Um-2, Um-3, AV-4, AV-7, K-5	P-15	Oral questioning, application of programmed control means	At least 50% correct answers
AV-2, K-4	SRS-1	The level of independent education, its quality and adequacy	Quality and completeness of the presented material
AV-2, K-4	SRS-2	The level of presentation or abstract on the selected topic	Quality and completeness of the presented material
AV-2, K-4	SRS-3	The level of independent education, its quality and adequacy	Quality and completeness of the presented material
AV-2, K-4	SRS-4	The level of independent education, its quality and adequacy	Quality and completeness of the presented material
AV-2, K-4	SRS-5	The level of independent education, its quality and adequacy	Quality and completeness of the presented material
AV-2, K-4	SRS-6	The level of independent education, its quality and adequacy	Quality and completeness of the presented material
Final control			
General evaluation system	Participation in the work during the semester / exam - 100% / 0% According to 200-point scale		
Evaluation scales	Traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale		
Conditions of access to final control	The student attended all classes and gained at least 120 points for current them		
Type of final control	Methods of final control		Criteria of positive evaluation
Credit	All topics must be passed. Grades from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulation "Criteria, rules and procedures for evaluating the results of student learning activities"		<i>The maximum amount of points is 200. The minimum amount of points is 120</i>
Examination criteria / differential credit			
Exam	-		-
Differential credit			
<p><i>The maximum number of points a student can score for the current learning activity for access to the exam (differentiated test) is 120 points.</i></p> <p><i>The minimum number of points a student must score for the current learning activity for access to the exam (differentiated test) is 72 points.</i></p> <p><i>The calculation of the number of points is based on the grades obtained by the student on a 4-point (national) scale during the study of the discipline, by calculating the arithmetic mean (CA), rounded to two decimal digits. The resulting value is converted into points using a multi-point scale as follows:</i></p> $x = \frac{CA \times 120}{5}$			
Criteria for assessing an objective structured practical (clinical) exam / complex of practice-oriented exam			
Master's thesis			
9. Course policy			

To ensure academic integrity, students need to master the ability to: act in professional and educational situations from the standpoint of academic integrity and professional ethics; independently perform educational tasks; correctly refer to sources of information in case of borrowing ideas, statements, information; be aware of the importance of the norms of academic integrity, evaluate examples of human behavior in accordance with norms of academic integrity; give a moral assessment of one's own actions and correlate them with moral and professional norms.

10. References

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11. Equipment, logistic and software of the discipline / course

12. Additional information

Teaching the discipline at lectures is provided by methodical developments, visual resources (presentations, educational films), information resources of departments.

Teaching the discipline in practical classes is provided by methodological developments, topics of independent and individual tasks, visual aids (presentations, educational films, mannequins and other tools for practicing practical skills of resuscitation, hemostasis etc.), information resources of departments, algorithms for practical skills and structured algorithms skills control. Independent and individual work in the study of the discipline is provided by methodological developments for independent work of students.

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