

SYLLABUS

1. General information on the course

Full course name	First Aid
Full official name of a higher education institution	Sumy State University
Full name of a structural unit	Medical Institute. Department of Emergency Medical Care and Disaster Medicine
Author(s)	Badion Yurii Oleksiiiovych, Shkatula Yurii Vasylovych, Kasian Svitlana Mykolaivna
Cycle/higher education level	The Second Level Of Higher Education, National Qualifications Framework Of Ukraine – The 7th Level, QF-LLL – The 7th Level, FQ-EHEA – The Second Cycle
Semester	18 weeks during the 2nd semester
Workload	The volume of the discipline is 3 ECTS credits, 90 hours, of which 42 hours is contact work with the teacher (6 hours of lectures and 36 hours of practical classes), 48 hours is independent work
Language(s)	Ukrainian, English

2. Place in the study programme

Relation to curriculum	Compulsory course available for study programme "Medicine"
Prerequisites	Medical Chemistry, Ukrainian as a Foreign Language
Additional requirements	There are no specific requirements
Restrictions	There are no specific restrictions

3. Aims of the course

The purpose of the discipline is the theoretical and practical preparation of students for emergency actions and organizational measures aimed at saving and preserving human life in an emergency and minimizing the impact of such a state on his health, carried out at the scene by persons without medical education, but according to their duties must have basic practical skills to save and save the life of a person who is in an emergency.

4. Contents

Topic 1 Fundamentals of normal and pathological anatomy. Fundamentals of normal and pathological physiology.

Anatomical and topographic structure of the human body. Musculoskeletal system. Skeleton and its functions. Bones of the head. The spine and its departments. Chest. Limb bones and pelvic bones. Muscles of the upper and lower extremities. Torso muscles. Respiratory organs. General examination of the respiratory system. The structure of the upper respiratory tract. Significance and mechanism of respiration. Characteristics and frequency of respiratory excursions. Consequences of respiratory arrest. Cardiovascular system. The concept of blood circulation. Blood, its amount in the human body, the consequences of blood loss. Basics of blood circulation: heart, blood vessels. The structure and function of the heart, its role in blood circulation. Trunk vessels, vessels of the upper and lower extremities. Types of bleeding, the importance of timely cessation of bleeding. The value of knowledge of the basics of anatomical structure of the body and systems of the human body to provide home care.

Topic 2 First aid as a discipline. Primary and secondary examination of the victim.

First aid, its relevance, content. The concept of home care. Legal aspects of home care. Place and scope of home care. Inspection of the scene, ensuring personal safety, determining the number of victims and the probable cause of their defeat, calling the ambulance and other rescue services in a dangerous situation, involving random witnesses in the organization of first aid. Personal safety equipment. Contact with the victim. Conducting an initial inspection. Determination of the level of consciousness on the APVU scale. Initial examination of the victim by the method of CABC. Determination of the presence of respiration, its frequency. Assessment of central and peripheral pulse. EMD call rules. Transfer of the victim to a stable position. Technique of performing a secondary examination.

Topic 3 Impaired airway patency. First aid.

Causes of airway obstruction. Signs of complete and partial airway obstruction. Technique of ensuring airway patency (throwing the head; removal of the lower jaw; introduction of the nasopharyngeal and oropharyngeal tubes). Technique of ensuring airway patency in case of foreign body obstruction (Heimlich method, conic puncture (conicotomy)). Features of removal of a foreign body from respiratory tracts of the pregnant woman of the ordinary person, the baby. Barrier devices for artificial lung ventilation. Technique of artificial lung ventilation (mouth to mouth, mouth to nose, mouth to face mask, AMBU bag). Pneumothorax: types, symptoms, home care.

Topic 4 Circulatory and respiratory arrest. Basic life support (cardiopulmonary resuscitation and automatic external defibrillation).

The process of dying of the organism. Terminal states (before agony, agony, clinical death). Signs and patterns of violation of vital functions until their complete cessation. Terminal pause. The concept of clinical death, its symptoms, the most common causes of acute disorders and circulatory and respiratory arrest. Cardiac fibrillation as the most common cause of circulatory arrest. Absolute and relative signs of biological death. Causes of inefficient blood circulation. Diagnosis of sudden death. The concept of cardiopulmonary resuscitation (CPR), the possibility of resuscitation depending on the time that has elapsed since the cessation of cardiac activity and respiration and its general rules. Algorithms for resuscitation by one and two rescuers. Ensuring airway patency. Determination of the presence of respiration. Determination of pulse in the carotid artery. Cardiopulmonary resuscitation. Chest pressure technique. Technology of cardiopulmonary resuscitation in the presence of an automatic defibrillator. Criteria for effectiveness and termination of resuscitation measures. Errors and complications that occur during cardiopulmonary resuscitation. Legal and ethical aspects of cardiopulmonary resuscitation.

Topic 5 First aid for bleeding. Basics of desmurgia.

Causes and signs of external bleeding. The concept of critical external bleeding. Methods and techniques for temporarily stopping external bleeding: lifting the limb, pressure on the wound, tamponade of the wound, pressure bandage (Israeli bandage). Indications and technique of applying different types of harnesses and improvised twists. Indications and rules for the use of chemicals to stop bleeding. Causes and signs of internal bleeding. Home care for internal bleeding. The concept of collapse and shock, the causes of their occurrence, recognition and provision of home care. The concept of desmurgia. Characteristics of modern dressings. Types of bandages. Basic rules for applying bandages. Rules of asepsis and antiseptics in the field, the use of regular and improvised means of bandaging. Rules and techniques for applying bandages to the head, chest and abdomen. Occlusal chest bandage. Bandages on the extremities - circular, spiral, on the finger and toes of the hand and foot, spike-shaped on the hand.

Topic 6 First aid for injuries and wounds. Transport immobilization.

Classification, mechanism, types of injuries. Signs of injury, the concept of combined, connecting, multiple injury. Mechanical trauma, characteristics of the wound, its signs, basic classifications. Priorities of the rescuer's actions at the scene, methods of detailed examination of the victim, types of injuries that require immediate response. Rules and methods of transport immobilization. Modern means of immobilization and transportation of victims. The use of improvised means of transportation. Basics of caring for the injured. The mechanism of chest injury and methods of examination of the thoracic cavity. Concepts and types of pneumothorax, hemothorax, heart trauma, airway obstruction. Rules of carrying out inspection at injuries of an abdominal cavity and a pelvis. Technique of first aid for penetrating injuries of the chest, abdomen and pelvis. Errors that occur when providing home care. Features of the rules of transportation of victims with penetrating injuries of the chest, abdomen and pelvis. Definition of fractures, classification of fractures, their features. Diagnosis of dislocations, home care. Complications of this injury, which are often the direct cause of death. The technique of the sequence of examination of the victim in case of suspicion of a fracture. Basic rules and methods of applying immobilization tires made of service and improvised materials. Preparation of victims for transportation.

<p>Topic 7 First aid for injuries caused by physical environmental factors.</p> <p>The concept of thermal, chemical and radiation burns and frostbite. Stages of burns and frostbite, their characteristics. Determination of depth and area of thermal burns. Causes and signs of low temperature (hypothermia, frostbite), home care. Actions of acids and alkalis, home care. Features of care for eye burns of various etiologies. The concept of electric shock. Differential diagnosis of "electric tags" and gunshot wounds. Defeat by technical electric current and lightning. Actions at the scene when providing assistance to the affected electric shock.</p>
<p>Topic 8 Defeat by poisonous and potent substances. Bites of venomous snakes and insects. First aid for acute poisoning.</p> <p>Clinical and toxicological classification of toxic substances. The nature of the defeat of potent toxic substances. First aid in case of poisoning by toxic substances of different groups. Safety measures during the provision of medical care to the victim. Basic principles of detoxification. Gastric and intestinal lavage. The use of sorbents. Prevention of poisoning.</p>
<p>Topic 9 First aid for the most common emergencies.</p> <p>Causes, diagnosis and home care for fainting, coma of unknown etiology, convulsions, heart pain (angina, heart attack), stroke, acute abdominal pain, poisoning by an unknown substance or gas, hanging. Asphyxia and its varieties: obstructive, strangulation, stenotic, compression, neuro-paralytic, central. Drowning, its signs. First aid. Assistance on the water: recognizing the drowning person, approaching him, transporting him to shore. Home care for drowning.</p>
<p>Topic 10 Final modular control</p> <p>Solving situational problems with the use of simulation equipment (mannequins of the human body and medical simulators); final testing.</p>

5. Intended learning outcomes of the course

After successful study of the course, the student will be able to:

LO1	Collect medical information about the patient and analyze clinical data, establish a provisional and clinical diagnosis of disease.
LO2	To determine the principles of treatment and treatment modality and to perform medical procedures.
LO3	Diagnose medical emergencies, determine the approach to emergency medical care, implement medical evacuation procedures.
LO4	Solve medical problems in new or unfamiliar environments given incomplete or limited information, taking into account aspects of social and ethical responsibility.

6. Role of the course in the achievement of programme learning outcomes

Programme learning outcomes achieved by the course.

For 222 Medicine:

PO1	To detect and identify the leading clinical symptoms and syndromes (according to the List 1); to establish the most probable nosological or syndromic preliminary clinical diagnosis of diseases (according to the List 2) using standard methods, preliminary data of the patient's anamnesis, patient's examination data, and knowledge about a human, his organs and systems.
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PO5	To detect the key clinical syndrome or the reason for patient's condition severity (according to the List 3) via informed decision and evaluation of the person's state under any circumstances (at home, in the street, at a healthcare facility), including under emergency and military operation conditions, in the field, with a lack of information and limited time.
PO6	To determine the nature and treatment principles (conservative, operative) in patients with diseases (according to the List 2) at a healthcare facility, at patient's home or during medical evacuation process (including in the field), based on the provisional clinical diagnosis and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures based on the principles of evidence-based medicine; if needed to go beyond the standard scheme, to substantiate the personalized recommendations under control of a supervising doctor at a medical facility.
PO11	To determine the appropriate approach in emergency medical care case under any circumstances, adhering to the relevant ethical and legal norms, by making an informed decision based on the main clinical syndrome (disease severity) and emergency diagnosis (according to the List 3) using standard schemes under limited time conditions based on the principles of evidence-based medicine.
PO12	To provide emergency medical assistance under any circumstances, adhering to the relevant ethical and legal norms, by making an informed decision based on the main clinical syndrome (disease severity) and emergency diagnosis (according to the List 3) using standard schemes and predetermined approach under limited time conditions based on the principles of evidence-based medicine.
PO13	To organize medical evacuation procedures among the population and the military under emergency and military operation conditions (including in the field), and during the phases of medical evacuation, given the existing system of medical evacuation provision.
PO14	To perform medical procedures (according to the List 5) at a medical facility, at home or at work on the basis of a provisional clinical diagnosis and/or health parameters through making an informed decision and adhering to the relevant ethical and legal norms.
PO15	To perform procedures related to emergency medical assistance within a limited time and under any circumstances, using standard schemes on the basis of a medical emergency diagnosis (according to the List 3).

7. Teaching and learning activities

7.1 Types of training

Topic 1. Fundamentals of normal and pathological anatomy. Fundamentals of normal and pathological physiology.

pr.tr.1 "Fundamentals of normal and pathological anatomy. Fundamentals of normal and pathological physiology."

Anatomical and topographic structure of the human body. Musculoskeletal system. Skeleton and its functions. Bones of the head. The spine and its departments. Chest. Limb bones and pelvic bones. Muscles of the upper and lower extremities. Torso muscles. Respiratory organs. General examination of the respiratory system. The structure of the upper respiratory tract. Significance and mechanism of respiration. Characteristics and frequency of respiratory excursions. Consequences of respiratory arrest. Cardiovascular system. The concept of blood circulation. Blood, its amount in the human body, the consequences of blood loss. Basics of blood circulation: heart, blood vessels. The structure and function of the heart, its role in blood circulation. Trunk vessels, vessels of the upper and lower extremities. Types of bleeding, the importance of timely cessation of bleeding. The study of this topic involves theoretical work in the classroom.

Topic 2. First aid as a discipline. Primary and secondary examination of the victim.

lect.1 "First aid as a discipline. Primary and secondary examination of the victim."

First aid, its relevance, content. The concept of home care. Legal aspects of home care. Inspection of the scene, ensuring personal safety, determining the number of victims and the probable cause of their defeat, calling the ambulance and other rescue services in a dangerous situation, involving random witnesses in the organization of first aid. Personal safety equipment. Conducting an initial inspection. Technique of performing a secondary examination.

pr.tr.2 "First aid as a discipline."

First aid, its relevance, content. The concept of home care. Legal aspects of home care. Place and scope of home care. Inspection of the scene, ensuring personal safety, determining the number of victims and the probable cause of their defeat, calling the ambulance and other rescue services in a dangerous situation, involving random witnesses in the organization of first aid. Personal safety equipment. Contact with the victim. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

pr.tr.3 "Primary and secondary examination of the victim."

Conducting an initial inspection. Determination of the level of consciousness on the APVU scale. Initial examination of the victim by the method of SAVS. Determination of the presence of respiration, its frequency. Assessment of central and peripheral pulse. SMD call rules. Transfer of the victim to a stable position. Technique of performing a secondary examination. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

Topic 3. Impaired airway patency. First aid.

pr.tr.4 "Impaired airway patency. First aid."

Anatomical and physiological features of the respiratory tract. Causes of airway obstruction. Signs of complete and partial airway obstruction. Technique of ensuring airway patency (throwing the head; removal of the lower jaw; introduction of the nasopharyngeal and oropharyngeal tubes). Technique of ensuring airway patency in case of foreign body obstruction (Heimlich method, conic puncture (conicotomy)). Features of removal of a foreign body from the respiratory tract of a pregnant woman, obese person, baby. Barrier devices for artificial lung ventilation. Technique of artificial lung ventilation (mouth to mouth, mouth to nose, mouth to face mask, AMBU bag). Pneumothorax: types, symptoms, home care. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

Topic 4. Circulatory and respiratory arrest. Basic life support (cardiopulmonary resuscitation and automatic external defibrillation).

lect.2 "Circulatory and respiratory arrest. Basic life support (cardiopulmonary resuscitation and automatic external defibrillation)."

The process of dying of the organism. Terminal states (before agony, agony, clinical death). The concept of cardiopulmonary resuscitation (CPR), the possibility of resuscitation depending on the time that has elapsed since the cessation of cardiac activity and respiration and its general rules. Algorithms for resuscitation by one and two rescuers. Criteria for effectiveness and termination of resuscitation measures. Errors and complications that occur during cardiopulmonary resuscitation. Legal and ethical aspects of cardiopulmonary resuscitation.

pr.tr.5 "Circulatory and respiratory arrest. Basic life support (cardiopulmonary resuscitation and automatic external defibrillation)."

The process of dying of the organism. Terminal states (before agony, agony, clinical death). Signs and patterns of violation of vital functions until their complete cessation. Terminal pause. The concept of clinical death, its symptoms, the most common causes of acute disorders and circulatory and respiratory arrest. Cardiac fibrillation as the most common cause of circulatory arrest. Absolute and relative signs of biological death. Causes of inefficient blood circulation. Diagnosis of sudden death. The study of this topic involves theoretical work in the classroom.

pr.tr.6 "Circulatory and respiratory arrest. Basic life support (cardiopulmonary resuscitation and automatic external defibrillation)."

The concept of cardiopulmonary resuscitation (CPR), the possibility of resuscitation depending on the time that has elapsed since the cessation of cardiac activity and respiration and its general rules. Algorithms for resuscitation by one and two rescuers. Ensuring airway patency. Determination of the presence of respiration. Determination of pulse in the carotid artery. Cardiopulmonary resuscitation. Chest pressure technique. Technology of cardiopulmonary resuscitation in the presence of an automatic defibrillator. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

pr.tr.7 "Circulatory and respiratory arrest. Basic life support (cardiopulmonary resuscitation and automatic external defibrillation)."

Criteria for effectiveness and termination of resuscitation measures. Errors and complications that occur during cardiopulmonary resuscitation. Legal and ethical aspects of cardiopulmonary resuscitation. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

Topic 5. First aid for bleeding. Basics of desmurgia.

pr.tr.8 "First aid for bleeding."

Causes and signs of external bleeding. The concept of critical external bleeding. Methods and techniques for temporarily stopping external bleeding: lifting the limb, pressure on the wound, tamponade of the wound, pressure bandage (Israeli bandage). Indications and technique of applying different types of harnesses and improvised twists. Indications and rules for the use of chemicals to stop bleeding. Causes and signs of internal bleeding. Home care for internal bleeding. The concept of collapse and shock, the causes of their occurrence, recognition and provision of home care. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

pr.tr.9 "Basics of desmurgia."

The concept of desmurgia. Characteristics of modern dressings. Types of bandages. Basic rules for applying bandages. Rules of asepsis and antiseptics in the field, the use of regular and improvised means of bandaging. Rules and techniques for applying bandages to the head, chest and abdomen. Occlusal chest bandage. Bandages on the extremities - circular, spiral, on the finger and toes of the hand and foot, spike-shaped on the hand. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

Topic 6. First aid for injuries and wounds. Transport immobilization.

lect.3 "First aid for injuries and wounds. Transport immobilization."

Classification, mechanism, types of injuries. Signs of injury, the concept of combined, connecting, multiple injury. Rules and methods of transport immobilization. Modern means of immobilization and transportation of victims. The use of improvised means of transportation. Basics of caring for the injured.

pr.tr.10 "First aid for injuries and wounds."

Classification, mechanism, types of injuries. Signs of injury, the concept of combined, connecting, multiple injury. Mechanical trauma, wound characteristics, its signs, basic classifications. Priorities of the rescuer's actions at the scene, methods of detailed examination of the victim, types of injuries that require immediate response. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

pr.tr.11 "First aid for injuries and wounds."

Head and spine injuries. Features of examination of the victim with suspicion of spinal cord injury. The mechanism of chest injury and methods of examination of the thoracic cavity. Concepts and types of pneumothorax, hemothorax, heart trauma, airway obstruction. Rules of inspection at injuries of an abdominal cavity and a pelvis. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

pr.tr.12 "Transport immobilization."

Definition of fractures, classification of fractures, their features. Diagnosis of dislocations, home care. The technique of the sequence of examination of the victim in case of suspicion of a fracture. Rules and methods of transport immobilization. Modern means of immobilization and transportation of victims. Basics of care for the injured. Basic rules and methods of applying immobilization tires made of service and improvised materials. Preparation of victims for transportation. The use of improvised means of transportation. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

Topic 7. First aid for injuries caused by physical environmental factors.

pr.tr.13 "First aid for injuries caused by physical environmental factors."

The concept of thermal, chemical and radiation burns and frostbite. Stages of burns and frostbite, their characteristics. Determination of depth and area of thermal burns. Causes and signs of low temperature (hypothermia, frostbite), home care. Actions of acids and alkalis, home care. Features of care for eye burns of various etiologies. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

pr.tr.14 "First aid for injuries caused by physical environmental factors."

The concept of electric shock. Differential diagnosis of "electric tags" and gunshot wounds. Defeat by technical electric current and lightning. Actions at the scene when providing assistance to the affected electric shock. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

Topic 8. Defeat by poisonous and potent substances. Bites of venomous snakes and insects. First aid for acute poisoning.

pr.tr.15 "Defeat by poisonous and potent substances. Bites of venomous snakes and insects. First aid for acute poisoning."

Clinical and toxicological classification of toxic substances. The nature of the defeat of potent toxic substances. First aid in case of poisoning by toxic substances of different groups. The study of this topic involves theoretical work in the classroom.

pr.tr.16 "Defeat by poisonous and potent substances. Bites of venomous snakes and insects. First aid for acute poisoning."

Safety measures during the provision of medical care to the victim. Basic principles of detoxification. Gastric and intestinal lavage. The use of sorbents. Prevention of poisoning. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

Topic 9. First aid for the most common emergencies.

pr.tr.17 "First aid for the most common emergencies."

Causes, diagnosis and home care for fainting, coma of unknown etiology, convulsions, heart pain (angina, heart attack), stroke, acute abdominal pain, poisoning by an unknown substance or gas, hanging. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

pr.tr.18 "First aid for the most common emergencies."

Asphyxia and its varieties: obstructive, strangulation, stenotic, compression, neuro-paralytic, central. Drowning, its signs. First aid. Assistance on the water: recognizing the drowning person, approaching him, transporting him to shore. Home care for drowning. The study of this topic involves practice-oriented training in a simulation center using mannequins of the human body and medical training equipment.

Topic 10. Final modular control

assessm.19 "Final modular control" (full-time course)

Solving situational problems with the use of simulation equipment (mannequins of the human body and medical simulators); final testing.

7.2 Learning activities

LA1	Lectures
LA2	Execution of practical tasks
LA3	Solving situational problems
LA4	Work with textbooks and relevant information sources
LA5	Practice of practical skills in the simulation center
LA6	E-learning in systems (MIX, LecturED SSU, Google software)
LA7	Independent work of students
LA8	Preparation for current and final control

8. Teaching methods

Course involves learning through:

TM1	Interactive multimedia lectures
TM2	Practical training

TM3	Practically-oriented training in the form of trainings with the decision of situational problems
TM4	Simulation training
TM5	Case-study
TM6	Independent learning

Lectures provide students with materials that are the basis for self-study of higher education. Lectures are complemented by practical classes that give students the opportunity to acquire theoretical knowledge and apply practical knowledge to provide first aid to victims in an emergency or emergency. Independent learning will be facilitated by preparation for lectures, practical classes, as well as work in groups of 2-3 students to prepare presentations, which will then be analyzed, discussed and demonstrated in the report on the implementation of practice-oriented learning. While preparing for presentations based on the results of practice-oriented learning, students develop skills of independent learning, rapid critical reading, synthesis and analytical thinking.

Case studies and practice-oriented training in the training class for first aid to the simulated victim in an emergency will promote the development of communication skills and the ability to work in a team, leadership, the ability to take responsibility and make informed decisions, the ability to work in critical conditions, the ability to manage conflicts.

9. Methods and criteria for assessment

9.1. Assessment criteria

ECTS	Definition	National scale	Rating scale
	Outstanding performance without errors	5 (Excellent)	$170 \leq RD \leq 200$
	Above the average standard but with minor errors	4 (Good)	$140 \leq RD < 169$
	Fair but with significant shortcomings	3 (Satisfactory)	$120 \leq RD < 139$
	Fail – some more work required before the credit can be awarded	2 (Fail)	$0 \leq RD < 119$

9.2 Formative assessment

FA1	Interviews and oral comments of the teacher on his results
FA2	Testing / surveys within the topics of practical classes
FA3	Checking the results of solving situational practice-oriented tasks, specific situations
FA4	Discussion and self-correction of the work done by students
FA5	Teacher's instructions in the process of performing practical tasks
FA6	Самостійне виконання студентами ситуаційних вправ на практичних заняттях та їх обговорення.

9.3 Summative assessment

SA1	Testing and surveys within the topics of the discipline
SA2	Execution of individual and group practical tasks
SA3	Compilation of the final modular control

Form of assessment:

2 semester		200 scores
SA1. Testing and surveys within the topics of the discipline		60
	10x6	60
SA2. Execution of individual and group practical tasks		60
	10x6	60
SA3. Compilation of the final modular control		80
	Answer to theoretical questions, performing a practical task of providing home care to a simulated patient	80

Form of assessment (special cases):

2 semester		200 scores
SA1. Testing and surveys within the topics of the discipline		60
	Тести на платформі MIX (10x6)	60
SA2. Execution of individual and group practical tasks		60
	Using technical means of communication (Google Meet, Zoom) (10x6)	60
SA3. Compilation of the final modular control		80
	E-learning in the MIX system, LecturED SSU, using Google Meet, Zoom	80

Evaluation of success at the end of the study of the discipline. The form of final control is a differentiated test, which is conducted at the end of the course in the form of theoretical and practical tasks. To obtain an overall positive grade in the discipline, the student must receive at least 60% of correct answers from the theoretical part of the test and at least 60% of correct answers from the practical part. The theoretical task is carried out in the form of a test control (100 tests with a choice of the correct answer) for 2 hours. The practical task is carried out in the form of the decision, presentation and discussion of a clinical situational task. The assessment of each student is based on the effectiveness of his work in providing emergency care to a simulated victim in an emergency in accordance with standard assessment maps.

10. Learning resources

10.1 Material and technical support

MTS1	Computers, computer systems and networks
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MTS2	Multimedia, video and audio, projection equipment (video cameras, projectors, screens, smart boards, etc.)
MTS3	Educational training simulators for medical purposes
MTS4	Simulation medical equipment
MTS5	Reference materials (printed and electronic)

10.2 Information and methodical support

Essential Reading	
1	Екстрена та невідкладна медична допомога. Том І: допомога травмованим на догоспітальному етапі: національний підручник / В.О. Крилюк, С.О. Гур'єв, Г.В. Загорій, А.А. Гудима, Н.І. Іскра та ін. – Київ. – 2017. – 504 с.
2	Медичний захист військ: навчальний посібник / [С.О. Гур'єв, Ю.В. Шкатула, В.П. Печиборщ та ін.] – Суми: Сумський державний університет, 2017. – 175 с.
3	Методичні вказівки до практичного заняття «Базове підтримання життя» з дисципліни «Домедична допомога» згідно з умовами Болонського процесу / Ю. В. Шкатула, Ю. О. Бадіон. – Суми: СумДУ, 2019. – 19 с.
4	Методичні вказівки до практичного заняття «Гострі отруєння» з дисципліни «Екстрена допомога при невідкладних станах» згідно з умовами Болонського процесу / Ю. В. Шкатула, Ю. О. Бадіон. – Суми: СумДУ, 2020. – 23 с.
5	Наказ МОЗ України від 05.06.2019 № 1269. Новий клінічний протокол «Екстрена медична допомога: догоспітальний етап» // Режим доступу: https://moz.gov.ua/uploads/2/12737-dn_20190605_1269_dod.pdf .
Supplemental Reading	
1	Екстрена медична допомога (догоспітальні протоколи): посібник // за редакцією професора О.В. Богомолець, професора Г.Г. Роціна. – Київ. Юстон. – 2016. – 212 с.
2	Екстрена медична допомога: догоспітальний етап – алгоритми маніпуляції (базовий рівень). – Г.Г. Роцін, А.А. Гудима, В.Ю. Кузьмін та ін. – К., 2012–84 с.
3	Методичні вказівки до практичного заняття «Утоплення» з дисципліни «Екстрена допомога при невідкладних станах» згідно з умовами Болонського процесу / Ю. В. Шкатула, Ю. О. Бадіон. – Суми: СумДУ, 2020. – 16 с.
4	Методичні вказівки до практичного заняття «Тактична медицина. Методи припинення зовнішньої кровотечі» з дисципліни «Медичний захист військ» згідно з умовами Болонського процесу / Ю. В. Шкатула, Ю. О. Бадіон. – Суми: СумДУ, 2018. – 29 с.
5	Методичні вказівки до практичного заняття «Множинні, поєднані, комбіновані пошкодження. Політравма» з дисципліни «Травматологія та ортопедія» згідно з умовами Болонського процесу / Ю. В. Шкатула, Ю. О. Бадіон. – Суми : СумДУ, 2014. – 22 с.

6	Методичні вказівки до практичного заняття «Транспортна іммобілізація» з дисципліни «Медицина надзвичайних ситуацій» згідно з умовами Болонського процесу / Ю. В. Шкатула, Ю. О. Бадіон. – Суми: СумДУ, 2015. – 34 с.
7	Методичні вказівки до практичного заняття «Множинні, поєднані, комбіновані пошкодження. Політравма» з дисципліни «Травматологія та ортопедія» згідно з умовами Болонського процесу / Ю. В. Шкатула, Ю. О. Бадіон. – Суми : СумДУ, 2014. – 22 с.
Web-based and electronic resources	
1	Інформаційно правовий портал «Законо України»: Режим доступу: http://uazakon.com/ .
2	Постанова КМУ «Про затвердження Положення про організацію оповіщення і зв'язку у надзвичайних ситуаціях» // Режим доступу: http://zakon2.rada.gov.ua/laws/show/192-99-%D0%BF .
3	Сайт Верховної Ради України: Режим доступу: http://zakon.rada.gov.ua/ .
4	Сайт Державної служби України з надзвичайних ситуацій: Режим доступу: http://www.mns.gov.ua/ .
5	Сайт Міністерства охорони здоров'я України: Режим доступу: http://www.moz.gov.ua/ .