

# SYLLABUS

## 1. General information on the course

<b>Full course name</b>	Forensic Medicine. Medical Law in Ukraine
<b>Full official name of a higher education institution</b>	Sumy State University
<b>Full name of a structural unit</b>	Academic and Research Medical Institute. Кафедра патологічної анатомії
<b>Author(s)</b>	Budko Hanna Yuriivna
<b>Cycle/higher education level</b>	The Second Level Of Higher Education, National Qualifications Framework Of Ukraine – The 7th Level, QF-LLL – The 7th Level, FQ-EHEA – The Second Cycle
<b>Semester</b>	18 weeks across 7 semester, 20 weeks across 8 semester
<b>Workload</b>	5 ECTS credits, 150 hours, of which 36 hours are hours of work with a teacher (hours of practical working). 114 hours - independent work of the student.
<b>Language(s)</b>	English

## 2. Place in the study programme

<b>Relation to curriculum</b>	Elective course available for study programme "Medicine"
<b>Prerequisites</b>	There are no specific pre-requisites
<b>Additional requirements</b>	There are no specific requirements
<b>Restrictions</b>	There are no specific restrictions

## 3. Aims of the course

The goal of the discipline "Forensic Medicine" is the formation of students' theoretical knowledge about: the method of examining the scene of the incident; methods examining: dead, living persons, material evidence and conducting commission examinations of forensic medicine in Ukraine. The main task of "Medical Law of Ukraine" is to improve the legal framework in accordance with international standards; introduction of legal mechanisms to ensure citizens' constitutional rights to health care.

## 4. Contents

<b>Module 1. Procedural bases and structure of Forensic Service in Ukraine. Forensic Thanatology.</b>
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Topic 1 The object and purpose of forensic medicine. The history of its development, procedural and organizational basis of the forensic examination.

Forensic Medicine, definition, its content and tasks. Forensic Examination, its role in the work of law enforcement agencies and health care of Ukraine. Formation of Forensic Medicine and Forensic Examination. Forensic Examination as one of the types of Forensic Examinations and evidence in court proceedings. Work with theoretical material in the classroom under the guidance of the teacher, tests (MIX learning) and independent preparation for practical classes.

Topic 2 Forensic thanatology. Probable and absolute signs of death. Demonstration of autopsy.

The doctrine of death in Forensic Medicine. Dying and its stages. Terminal condition and its forensic significance. Statement of the fact of death. Diagnosis of clinical and biological death, probable and absolute signs of death. Forensic methods of establishing the statute of limitations for death. Demonstration of the method of autopsy of the deceased in the section hall of the Department of Pathology of the Academic and Research Medical Institute of Sumy State University (Pryvokzalna St., 31, the morgue of the Sumy Regional Hospital) in real time; work with the teacher in classrooms using video, photo materials, presentations; tests (MIX learning); independent work of students.

Topic 3 Forensic examination of newborn corpses. Demonstration of autopsy.

Features of forensic examination and technique of autopsy of newborns. Establishment of newborn, full-term, maturity, live birth, viability and life expectancy after childbirth. Causes of fetal and newborn death: before, during and after birth. Infanticide: active and passive. Demonstration of the method of autopsy of the deceased in the section hall of the Department of Pathology of the Academic and Research Medical Institute of Sumy State University (M. Vovchka St., 2, the morgue of the Hospital 5) in real time; work with the teacher in classrooms using video, photo materials, presentations; tests (MIX learning); independent work of students.

Topic 4 Forensic Medical Examination of Sudden Death. Demonstration of autopsy.

The concept of Sudden Death and its risk factors. Diagnosis of Sudden Death in diseases of various organs and organ systems during pregnancy, childbirth, from infectious diseases. Determination of thanatogenesis in a combination of different nosological forms of disease and injury. Principles of forensic diagnosis and expert opinions. Medical Death Certificate. Demonstration of the method of autopsy of the deceased in the section hall of the Department of Pathology of the Academic and Research Medical Institute of Sumy State University (Pryvokzalna St., 31, the morgue of the Sumy Regional Hospital) in real time; work with the teacher in classrooms using video, photo materials, presentations; tests (MIX learning); independent work of students.

**Module 2. Forensic medical examination of victims, accused and other persons (living persons).**

Topic 5 Forensic medical examination of victims, accused and other persons. Reasons and procedure. Establishing the degree of gravity of the physical injuries. Forensic medical examination of controversial sexual conditions and sexual crimes.

Reasons for Forensic Examination of Living Persons. Legal classification of bodily injuries according to their severity in accordance with the Criminal Code of Ukraine. Criteria for the degree of gravity of the physical injuries in accordance with the current "Rules of forensic determination of the degree of gravity of the physical injuries". Features of examination in cases of disputed sexual conditions and sexual crimes. Work in classrooms with medical documentation and forensic medical reports; analysis of situational tasks using video and photo materials under the guidance of the teacher; tests (MIX learning). Independent work of student.

**Module 3. Forensic examination of injuries and death from mechanical factors. Forensic Toxicology.**

Topic 6 General issues of Forensic Traumatology. Forensic examination of injuries with blunt and sharp objects.

Definition of "Trauma". Classification of injuries depending on the active factor, nature and degree of gravity. Types of blunt and sharp objects, the mechanism of causing damage. Morphological features of bodily injuries caused by blunt and sharp objects. Modern methods for determining the viability and age of injury. Causes of death from mechanical trauma caused by blunt and sharp objects. Work in classrooms under the guidance of a teacher with macropreparations of various injuries, with medical documentation, conclusions of forensic medical examination, photo and video materials, analysis of situational tasks; tests (MIX learning). Independent work of student.

Topic 7 Forensic examination of injuries in cases with Traffic Accidents.

Injury and its types. Forensic features of different types of injuries. Classification of traffic injuries. Car injury and its main types. Relationship between the phases of car injury with the mechanism of damage. Features of the inspection of the place of the traffic accident. Work in classrooms under the guidance of a teacher with macropreparations of various injuries, with medical documentation, conclusions of forensic medical examination, photo and video materials, analysis of situational tasks; tests (MIX learning). Independent work of student.

Topic 8 Forensic examination of Gunshot Trauma. Forensic examination of Mechanical Asphyxia.

The concept of gunshot injuries. Firearms, their types. Shot mechanism. Additional shot factors. Signs of a contact shot, from close and distance shot. Determining the entrance and exit bullet holes when firing at different distances on clothing and skin. Concepts of hypoxia, asphyxia and mechanical asphyxia. Clinical picture of the terminal state during mechanical asphyxia, stage of the course. General asphyxial symptoms. Classification of mechanical asphyxia. Work in classrooms under the guidance of a teacher with macropreparations of various injuries, with medical documentation, conclusions of forensic medical examination, photo and video materials, analysis of situational tasks; tests (MIX learning). Independent work of student.

Topic 9 General information about poisons, their mechanism of action. Basics of forensic diagnosis of poisoning.

The concept of poisons and poisoning. Conditions of action of poisons. Stages of poisoning. Peculiarities of examination of the scene of suspected death from poisoning. Requirements for a forensic medical examination of a corpse in case of suspected poisoning. Rules for removing organs and tissues from a corpse for laboratory research. Classification of poisons. Work in educational auditoriums under the guidance of a teacher with medical documentation, conclusions of forensic medical examination, photographic materials, analysis of situational tasks; tests (MIX learning). Independent work of student.

Topic 10 Poisons with mainly local action (corrosive). Poisons with mostly general action (resorptive).

Characteristics and forensic diagnosis of poisoning by corrosive poisons (acids and caustics meadows). Characteristics and forensic diagnosis of blood poisoning (carbon monoxide, methemoglobin formers); destructive (metalloids - mercury, copper, lead, thallium, arsenic); nervous and functional (ethyl alcohol, sleeping pills, alkaloids, drugs, hydrogen sulfide, poisonous chemicals - phosphorus compounds). Work in classrooms under the guidance of a teacher with photographic materials, analysis of situational tasks; tests (MIX learning). Independent work of student.

#### **Module 4. Medical Law of Ukraine**

Topic 11 General concepts and system of Legal Law in Ukraine.

Concepts: state, its forms and functions; power, society, laws. Types of social norms depending on the method of their formation and provision. Elements of the rule of law. Implementation of law. Stages of legal regulation. Components of legal personality. Classifications of legal facts. Types of behavior. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

Topic 12 Legal basis of health care organization in Ukraine.

Medical care and service: legal essence and characteristics. Legal status of subjects of medical legal relations - human rights in the field of health care. Legal status of medical workers under the legislation of Ukraine; legal regulation of labor activity of medical workers. Subjects of health insurance. Rights and responsibilities of health insurance entities. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

Topic 13 Legal bases of Medical Legislation in Ukraine.

Legal bases of bioethics: medical ethics and deontology in medical practice. Bioethical human rights and freedoms. Medical jurisprudence as an academic discipline. Legal relations in the field of health care: concept and composition. Individuals and legal entities as subjects of legal relations in the field of health care. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

Topic 14 Organization, management and legal regulation in the field of health care in Ukraine.

Public law entities as subjects of health care relations. Objects of legal relations in the field of health care; sources of law governing legal relations in the field of health care. Legal regulation of health care issues in Ukraine. Organization, management and legal regulation in the field of health care. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

<p>Topic 15 The general structure and classification of human rights in the field of health care in Ukraine. Patient rights. Professional rights and duties of doctors.</p> <p>Personal non-property rights in the field of health care. Rights to: receive medical care; abortion; for health, health care; personal integrity, freedom and dignity; the right to informed consent for medical intervention; the right to information about one's health; the right to secrecy about one's health. Medical secrecy. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.</p>
<p>Topic 16 Offenses and legal liability in the field of health care.</p> <p>Offenses in health care and legal responsibility: general issues of legal responsibility of medical workers; civil liability of medical and preventive institutions; administrative and disciplinary liability of medical workers; criminal liability of medical workers for committing professional crimes. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.</p>
<p>Topic 17 Determination of adverse effects in medical practice.</p> <p>Legal qualification of defects in the provision of medical care. Legal assessment of adverse treatment outcomes; medical errors, accidents; examination of defects in the provision of medical care. Iatrogenic pathology: definition, relevance and main causes of iatrogenic; classification of iatrogenic, the place of iatrogenic pathology in the structure of adverse outcomes of medical interventions. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.</p>
<p><b>Module 5. The Final Module</b></p>
<p>Topic 18 Final knowledge control (differential module).</p> <p>1st stage: control testing. 2nd stage: written answer to two theoretical questions of the module. Work in classrooms under the supervision of a teacher: testing in MIX learning of Sumy State University, written answers to theoretical questions. Independent work of the student (preparation for the module).</p>

## 5. Intended learning outcomes of the course

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

LO1	Have knowledge of the procedure for appointment and conduct of forensic examinations in Ukraine.
LO2	Be able to assist law enforcement officials in conducting the inspection: the scene, the corpse at the scene.
LO3	Be able to provide assistance to law enforcement officials in the qualification of injuries and severity of injuries.
LO4	Know the content and correctly apply the knowledge of regulations that provide for administrative, disciplinary and criminal liability of medical workers for professional offenses and crimes.

## 7. Teaching and learning activities

### 7.1 Types of training

**Topic 1. The object and purpose of forensic medicine. The history of its development, procedural and organizational basis of the forensic examination.**

pr.tr.1 "The object and purpose of forensic medicine. The history of its development, procedural and organizational basis of the forensic examination." (full-time course)

Forensic Medicine, definition, its content and tasks. Forensic Examination, its role in the work of law enforcement agencies and health care of Ukraine. Formation of Forensic Medicine and Forensic Examination. Forensic Examination as one of the types of Forensic Examinations and evidence in court proceedings. Work with theoretical material in the classroom under the guidance of the teacher, tests (MIX learning) and independent preparation for practical classes.

**Topic 2. Forensic thanatology. Probable and absolute signs of death. Demonstration of autopsy.**

pr.tr.2 "Forensic thanatology. Probable and absolute signs of death. Demonstration of autopsy." (full-time course)

he doctrine of death in Forensic Medicine. Dying and its stages. Terminal condition and its forensic significance. Statement of the fact of death. Diagnosis of clinical and biological death, probable and absolute signs of death. Forensic methods of establishing the statute of limitations for death. Demonstration of the method of autopsy of the deceased in the section hall of the Department of Pathology of the Academic and Research Medical Institute of Sumy State University (Pryvokzalna St., 31, the morgue of the Sumy Regional Hospital) in real time; work with the teacher in classrooms using video, photo materials, presentations; tests (MIX learning); independent work of students.

**Topic 3. Forensic examination of newborn corpses. Demonstration of autopsy.**

pr.tr.3 "Forensic examination of newborn corpses. Demonstration of autopsy." (full-time course)

Features of forensic examination and technique of autopsy of newborns. Establishment of newborn, full-term, maturity, live birth, viability and life expectancy after childbirth. Causes of fetal and newborn death: before, during and after birth. Infanticide: active and passive. Demonstration of the method of autopsy of the deceased in the section hall of the Department of Pathology of the Academic and Research Medical Institute of Sumy State University (M. Vovchka St., 2, the morgue of the Hospital 5) in real time; work with the teacher in classrooms using video, photo materials, presentations; tests (MIX learning); independent work of students.

**Topic 4. Forensic Medical Examination of Sudden Death. Demonstration of autopsy.**

pr.tr.4 "Forensic Medical Examination of Sudden Death. Demonstration of autopsy." (full-time course)

The concept of Sudden Death and its risk factors. Diagnosis of Sudden Death in diseases of various organs and organ systems during pregnancy, childbirth, from infectious diseases. Determination of thanatogenesis in a combination of different nosological forms of disease and injury. Principles of forensic diagnosis and expert opinions. Medical Death Certificate. Demonstration of the method of autopsy of the deceased in the section hall of the Department of Pathology of the Academic and Research Medical Institute of Sumy State University (Pryvokzalna St., 31, the morgue of the Sumy Regional Hospital) in real time; work with the teacher in classrooms using video, photo materials, presentations; tests (MIX learning); independent work of students.

**Topic 5. Forensic medical examination of victims, accused and other persons. Reasons and procedure. Establishing the degree of gravity of the physical injuries. Forensic medical examination of controversial sexual conditions and sexual crimes.**

pr.tr.5 "Forensic medical examination of victims, accused and other persons. Reasons and procedure. Establishing the degree of gravity of the physical injuries. Forensic medical examination of controversial sexual conditions and sexual crimes." (full-time course)

Reasons for Forensic Examination of Living Persons. Legal classification of bodily injuries according to their severity in accordance with the Criminal Code of Ukraine. Criteria for the degree of gravity of the physical injuries in accordance with the current "Rules of forensic determination of the degree of gravity of the physical injuries". Features of examination in cases of disputed sexual conditions and sexual crimes. Work in classrooms with medical documentation and forensic medical reports; analysis of situational tasks using video and photo materials under the guidance of the teacher; tests (MIX learning). Independent work of student.

**Topic 6. General issues of Forensic Traumatology. Forensic examination of injuries with blunt and sharp objects.**

pr.tr.6 "General issues of Forensic Traumatology. Forensic examination of injuries with blunt and sharp objects." (full-time course)

Definition of "Trauma". Classification of injuries depending on the active factor, nature and degree of gravity. Types of blunt and sharp objects, the mechanism of causing damage. Morphological features of bodily injuries caused by blunt and sharp objects. Modern methods for determining the viability and age of injury. Causes of death from mechanical trauma caused by blunt and sharp objects. Work in classrooms under the guidance of a teacher with macropreparations of various injuries, with medical documentation, conclusions of forensic medical examination, photo and video materials, analysis of situational tasks; tests (MIX learning). Independent work of student.

**Topic 7. Forensic examination of injuries in cases with Traffic Accidents.**

pr.tr.7 "Forensic examination of injuries in cases with Traffic Accidents." (full-time course)

njury and its types. Forensic features of different types of injuries. Classification of traffic injuries. Car injury and its main types. Relationship between the phases of car injury with the mechanism of damage. Features of the inspection of the place of the traffic accident. Work in classrooms under the guidance of a teacher with macropreparations of various injuries, with medical documentation, conclusions of forensic medical examination, photo and video materials, analysis of situational tasks; tests (MIX learning). Independent work of student.

**Topic 8. Forensic examination of Gunshot Trauma. Forensic examination of Mechanical Asphyxia.**

pr.tr.8 "Forensic examination of Gunshot Trauma. Forensic examination of Mechanical Asphyxia." (full-time course)

The concept of gunshot injuries. Firearms, their types. Shot mechanism. Additional shot factors. Signs of a contact shot, from close and distance shot. Determining the entrance and exit bullet holes when firing at different distances on clothing and skin. Concepts of hypoxia, asphyxia and mechanical asphyxia. Clinical picture of the terminal state during mechanical asphyxia, stage of the course. General asphyxial symptoms. Classification of mechanical asphyxia. Work in classrooms under the guidance of a teacher with macropreparations of various injuries, with medical documentation, conclusions of forensic medical examination, photo and video materials, analysis of situational tasks; tests (MIX learning). Independent work of student..

**Topic 9. General information about poisons, their mechanism of action. Basics of forensic diagnosis of poisoning.**

pr.tr.9 "General information about poisons, the mechanism of their action and the basics of forensic diagnosis of poisoning, classification of poisons." (full-time course)

The concept of poisons and poisoning. Conditions of action of poisons. Stages of poisoning. Peculiarities of examination of the scene of suspected death from poisoning. Requirements for a forensic medical examination of a corpse in case of suspected poisoning. Rules for removing organs and tissues from a corpse for laboratory research. Classification of poisons. Work in educational auditoriums under the guidance of a teacher with medical documentation, conclusions of forensic medical examination, photographic materials, analysis of situational tasks; tests (MIX learning). Independent work of student.

**Topic 10. Poisons with mainly local action (corrosive). Poisons with mostly general action (resorptive).**

pr.tr.10 "Poisons with mainly local action (corrosive). Poisons with mostly general action (resorptive)." (full-time course)

Characteristics and forensic diagnosis of poisoning by corrosive poisons (acids and caustics meadows). Characteristics and forensic diagnosis of blood poisoning (carbon monoxide, methemoglobin formers); destructive (metalloids - mercury, copper, lead, thallium, arsenic); nervous and functional (ethyl alcohol, sleeping pills, alkaloids, drugs, hydrogen sulfide, poisonous chemicals - phosphorus compounds). Work in classrooms under the guidance of a teacher with photographic materials, analysis of situational tasks; tests (MIX learning). Independent work of student.

**Topic 11. General concepts and system of Legal Law in Ukraine.**

pr.tr.11 "General concepts and system of Legal Law in Ukraine." (full-time course)

Concepts: state, its forms and functions; power, society, laws. Types of social norms depending on the method of their formation and provision. Elements of the rule of law. Implementation of law. Stages of legal regulation. Components of legal personality. Classifications of legal facts. Types of behavior. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

**Topic 12. Legal basis of health care organization in Ukraine.**



pr.tr.12 "Legal basis of health care organization in Ukraine." (full-time course)

Medical care and service: legal essence and characteristics. Legal status of subjects of medical legal relations - human rights in the field of health care. Legal status of medical workers under the legislation of Ukraine; legal regulation of labor activity of medical workers. Subjects of health insurance. Rights and responsibilities of health insurance entities. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

### **Topic 13. Legal bases of Medical Legislation in Ukraine.**

pr.tr.13 "Legal bases of Medical Legislation in Ukraine." (full-time course)

Legal bases of bioethics: medical ethics and deontology in medical practice. Bioethical human rights and freedoms. Medical jurisprudence as an academic discipline. Legal relations in the field of health care: concept and composition. Individuals and legal entities as subjects of legal relations in the field of health care. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

### **Topic 14. Organization, management and legal regulation in the field of health care in Ukraine.**

pr.tr.14 "Organization, management and legal regulation in the field of health care in Ukraine." (full-time course)

Public law entities as subjects of health care relations. Objects of legal relations in the field of health care; sources of law governing legal relations in the field of health care. Legal regulation of health care issues in Ukraine. Organization, management and legal regulation in the field of health care. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

### **Topic 15. The general structure and classification of human rights in the field of health care in Ukraine. Patient rights. Professional rights and duties of doctors.**

pr.tr.15 "The general structure and classification of human rights in the field of health care in Ukraine. Patient rights. Professional rights and duties of doctors." (full-time course)

Personal non-property rights in the field of health care. Rights to: receive medical care; abortion; for health, health care; personal integrity, freedom and dignity; the right to informed consent for medical intervention; the right to information about one's health; the right to secrecy about one's health. Medical secrecy. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

### **Topic 16. Offenses and legal liability in the field of health care.**

pr.tr.16 "Offenses and legal liability in the field of health care." (full-time course)

Offenses in health care and legal responsibility: general issues of legal responsibility of medical workers; civil liability of medical and preventive institutions; administrative and disciplinary liability of medical workers; criminal liability of medical workers for committing professional crimes. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

### **Topic 17. Determination of adverse effects in medical practice.**

pr.tr.17 "Determination of adverse effects in medical practice." (full-time course)

Legal qualification of defects in the provision of medical care. Legal assessment of adverse treatment outcomes; medical errors, accidents; examination of defects in the provision of medical care. Iatrogenic pathology: definition, relevance and main causes of iatrogenic; classification of iatrogenic, the place of iatrogenic pathology in the structure of adverse outcomes of medical interventions. Working with presentations, situational tasks and tests (MIX learning). Independent work of student.

### **Topic 18. Final knowledge control (differential module).**

pr.tr.18 "Final knowledge control (differential module)." (full-time course)

1st stage: control testing. 2nd stage: written answer to two theoretical questions of the module. Work in classrooms under the supervision of a teacher: testing in MIX learning of Sumy State University, written answers to theoretical questions. Independent work of the student (preparation for the module).

## 7.2 Learning activities

LA1	Preparation for practical classes.
LA2	Self-study.
LA3	Solving situational tasks
LA4	Watch videos
LA5	E-learning in systems (the list is specified by the teacher, for example, Google Classroom, Zoom and in the format of the YouTube channel)
LA6	Preparation for current and final control.

## 8. Teaching methods

Course involves learning through:

TM1	Brain storm
TM2	Case-study
TM3	Think-pair-share
TM4	Role play

TM1-4 Brain storm; analysis of specific situations; exchange of views; role play.

SS1 Ability to abstract thinking, analysis and synthesis. SS2 Ability to apply knowledge in practical situations. SS3 Ability to plan and manage time. SS4 Knowledge and understanding of the subject area and understanding of professional activity. SS9 Ability to learn and master modern knowledge. SS10 Ability to search, process and analyze information from various sources. SS11 Ability to be critical and self-critical. SS12 Ability to adapt and act in a new situation. SS15 Ability to make informed decisions. SS16 Ability to work in a team. SS17 Ability to interpersonal interaction. SS22 Ability to work autonomously.

## 9. Methods and criteria for assessment

### 9.1. Assessment criteria

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	Solving situational tasks.
FA2	Express testing.
FA3	Interviews and oral comments of the teacher on his results.
FA4	Checking and evaluating written assignments.

### 9.3 Summative assessment

SA1	Current control works (intermediate modular control).
SA2	Complex written modular control.

Form of assessment:

<b>7 semester</b>		<b>200 scores</b>
SA1. Current control works (intermediate modular control).		<b>120</b>
	In case of quarantine restrictions, classes will be held remotely using the platform Mix.sumdu.edu.ua, Zoom, Google meet. (4x30)	120
SA2. Complex written modular control.		<b>80</b>
	In case of quarantine restrictions, classes will be held remotely using the platform Mix.sumdu.edu.ua, Zoom, Google meet.	80
<b>8 semester</b>		<b>200 scores</b>
SA1. Current control works (intermediate modular control).		<b>120</b>
	In case of quarantine restrictions, classes will be held remotely using the platform Mix.sumdu.edu.ua, Zoom, Google meet. (4x30)	120
SA2. Complex written modular control.		<b>80</b>
	In case of quarantine restrictions, classes will be held remotely using the platform Mix.sumdu.edu.ua, Zoom, Google meet.	80

Form of assessment (special cases):

<b>7 semester</b>		<b>200 scores</b>
SA1. Current control works (intermediate modular control).		<b>120</b>

	In case of quarantine restrictions, classes will be held remotely using the platform Mix.sumdu.edu.ua, Zoom, Google meet. (4x30)	120
SA2. Complex written modular control.		<b>80</b>
	In case of quarantine restrictions, classes will be held remotely using the platform Mix.sumdu.edu.ua, Zoom, Google meet.	80
<b>8 semester</b>		<b>200 scores</b>
SA1. Current control works (intermediate modular control).		<b>120</b>
	In case of quarantine restrictions, classes will be held remotely using the platform Mix.sumdu.edu.ua, Zoom, Google meet. (4x30)	120
SA2. Complex written modular control.		<b>80</b>
	In case of quarantine restrictions, classes will be held remotely using the platform Mix.sumdu.edu.ua, Zoom, Google meet.	80

Grade in the discipline is defined as the sum of points for current educational activities (not less than 72) and points for the final module control (not less than 48). The number of points for the current activity is calculated by the formula  $120 \times \frac{\text{arithmetic mean of the student's success in the 4-point grading system}}{5}$ . The final module control is conducted at the end of the semester in the form of a written test, with a score of "5" corresponds to 80 points, "4" - 64 points, "3" - 48 points, "2" - 0 points. In case of unsatisfactory result for the final module control, the student has the right to retake the test. Students who fail to take the test without good reason are considered to have received an unsatisfactory grade. The student's refusal to perform the final modular task is certified as an unsatisfactory answer.

## 10. Learning resources

### 10.1 Material and technical support

MTS1	Information and communication systems.
MTS2	Library funds.
MTS3	Computers, computer systems and networks.
MTS4	Medical facilities / premises and equipment (clinics, hospitals, etc.).
MTS5	Multimedia, video and sound reproduction, projection equipment (video cameras, projectors, screens, smart boards, etc.).
MTS6	Software (to support distance learning, online surveys, virtual laboratories, virtual patients, to create computer graphics, modeling, etc.).

### 10.2 Information and methodical support

<b>Essential Reading</b>	
1	Mykhailychenko B.V., Biliakov A.M. Forensic Medicine: Textbook, Kyiv, 2018. – 224 p.
2	Anil Aggrawal Textbook of Forensic Medicine and Toxicology 2nd Edition / Avichal Publishing Company. - 2019. - 759 p.

3	KS Narayan Reddy The Essentials of Forensic Medicine and Toxicology / 2017. - 648 p.
<b>Supplemental Reading</b>	
1	Simpson's Forensic Medicine, 14th Edition / Jason Payne-James, Richard Martin Jones CRC Press, 2019. - 343 p.
<b>Web-based and electronic resources</b>	
1	<a href="https://pathology.med.sumdu.edu.ua/">https://pathology.med.sumdu.edu.ua/</a>
2	<a href="https://mix.sumdu.edu.ua/textbooks/16925/index.html">https://mix.sumdu.edu.ua/textbooks/16925/index.html</a>
3	Official website of the Ministry of Internal Affairs of Ukraine: <a href="http://mvs.gov.ua">http://mvs.gov.ua</a>
4	The official website of the State Statistics Committee: <a href="http://www.ukrstat.gov.ua">http://www.ukrstat.gov.ua</a>
5	Official website of the Supreme Council of Ukraine: <a href="http://portal.rada.gov.ua">http://portal.rada.gov.ua</a> .
6	Information resources of the Internet, for example: <a href="http://www.liga.net">www.liga.net</a> .