

SYLLABUS

1. General information on the course

Full course name	Forensic Medicine. Medical Law in Ukraine
Full official name of a higher education institution	Sumy State University, Sumy State University
Full name of a structural unit	Medical Institute. Department of Pathology
Author(s)	Budko Hanna Yuriivna
Cycle/higher education level	The First Level Of Higher Education, National Qualifications Framework Of Ukraine – The 6th Level, QF-LLL – The 6th Level, FQ-EHEA – The First Cycle
Semester	16 weeks across 7 semester, 19 weeks across 8 semester
Workload	The volume of the academic discipline is 3 ECTS credits, 90 hours: 50 hours, of which contact work with the teacher is 14 hours lectures, 36 practical classes
Language(s)	English

2. Place in the study programme

Relation to curriculum	Elective course available for all students
Prerequisites	Krok-1
Additional requirements	There are no specific requirements
Restrictions	There are no specific restrictions

3. Aims of the course

The purpose of the discipline "Forensic Medicine" is to form students' theoretical knowledge on the general provisions and methods: inspection of the scene, examination of the dead, living persons, material evidence examination in Ukraine. Main tasks of "Medical Law of Ukraine " is to improve the regulatory framework of the industry in accordance with international standards; introduction of legal, economic, administrative mechanisms, provision constitutional rights of citizens in Ukraine.

4. Contents

Module 1. Procedural bases and structure of forensic medical service in Ukraine. Forensic medical thanatology.
Topic 1 The subject and tasks of forensic medicine. Organizational and procedural foundations of forensic medical examination in Ukraine. Forensic medicine: definition, content and tasks. The value of forensic medicine in the higher system medical education. Forensic examination, its role in the work of law enforcement and security health of Ukraine.

Topic 2 General questions of forensic medical thanatology. Terminal states. Probable and reliable signs of death. An autopsy demonstration.

The doctrine of death in forensic medicine. Death concept. 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 establishment of the statute of limitations for death. Demonstration of the autopsy technique deceased in the section hall of the Department of Pathological Anatomy in real time and using video and photo materials.

Topic 3 Forensic examination of the corpses of newborns. An autopsy demonstration.

Features of forensic examination (research) and technique of autopsy newborns. Establishment of newborn, full-term, maturity, live birth, viability and life expectancy after childbirth. Infanticide: active and passive. Demonstration of the method of autopsy in the section hall of the department of Pathological Anatomy real-time and using video and photo materials.

Module 2. Forensic medical examination of victims, accused and other persons.

Topic 4 Forensic medical examination of victims, accused and other persons. The reasons and order of its holding. Establishing the severity of injuries.

Tasks of forensic medical examination of victims, accused and other persons. Determination of types of damage, age of application and their severity. Legal classification of injuries according to their severity according to Criminal Code of Ukraine. Working with medical documentation and forensic conclusions. Analysis of situational tasks using video and photo materials.

Topic 5 Forensic medical examination of controversial sexual conditions and sexual crimes.

Features of examination in cases of disputed sexual conditions and sexual crimes. Work with medical documentation and forensic conclusions. Analysis of situational tasks using video and photo materials.

Module 3. Forensic medical examination of injuries and deaths from mechanical factors. Forensic Toxicology.

Topic 6 General issues of forensic traumatology.

Definition of "trauma", "injury". Classification of damages depending on the factors, nature and severity. Features of the description of bodily injuries. Damage blunt objects, their classification. The mechanism of action of blunt objects and the nature of the damage arise from their action. Work with macrodrugs of various injuries, with medical documentation, conclusions of forensic medical examination, photos, videos, analysis of situational tasks.

Topic 7 Forensic examination of injuries with blunt and sharp objects.

Types of blunt and sharp objects, the mechanism of causing damage. Morphological features bodily injuries caused by blunt and sharp objects. Causes of death from mechanical injury, due to the action of blunt and sharp objects. Work with macrodrugs of various injuries, with medical documentation, conclusions of forensic examination, photos, videos, analysis of situational tasks.

Topic 8 Forensic medical examination of traumatism and transport injury.

Classification transport injury. Car injury and its main types. Features of the inspection of the place of the accident. Work with macrodrugs of various injuries, with medical documentation, conclusions forensic examination, photos, videos, analysis of situational tasks.

Topic 9 Forensic examination of gunshot injuries.

The concept of gunshot wounds. Firearms, its types. Mechanism of the shot. Definition entrance and exit defects on clothing and skin. Work with macrodrugs of various injuries, with medical documentation, conclusions of forensic medical examination, photos, videos, analysis of situational tasks.

Topic 10 Forensic examination of mechanical asphyxia.

The concept of hypoxia, asphyxia and mechanical asphyxia. Clinical picture of dying in asphyxia its stages. Classification of mechanical asphyxia. Characteristics of certain types of mechanical asphyxia. Work with medical documentation, conclusions of forensic medical examination, photos, videos, analysis of situational tasks.

Topic 11 General information about poisons, their mechanism of action and the basics of forensic diagnosis of poisoning, classification of poisons.

The concept of poisons and poisoning. Conditions of action of poisons. Features of inspection of a scene at suspicion of death from poisoning. Requirements for forensic medicine examination of the corpse in case of suspicion of poisoning. Rules for the removal of organs and tissues of the corpse for laboratory tests. Classification of poisons. Work with medical documentation, conclusions of forensic medical examination, photographic materials, analysis of situational tasks.

Topic 12 Poisons with a predominant local effect.

Characteristics and forensic diagnosis of corrosion poisoning (caustic acids and alkalis, phenols). Work with photo materials, analysis of situational tasks.

Topic 13 Poisons with a predominant general effect (resorptiv).

Characteristics and forensic diagnosis of poisoning by blood, destructive and neuro-functional poisons. Working with photographic materials, analysis of situational tasks.

Module 4. Medical law in Ukraine

Topic 14 Legal foundations of medical legislation. Organization, management and legal regulation in the field of health care.

The concept, functions and social purpose of the state. State regulation of protection health and medical activities as a function of the state. Legal bases of bioethics. Medical law in the system of higher medical education. Legal relations in the field of health care: concept and composition. Individuals as subjects legal relations in the field of health care. Objects of legal relations in the field of health care.

Topic 15 General structure and classification of human rights in health care. Patient rights. Professional rights and obligations of doctors.

Personal non-property rights in the field of health care of an individual: - the right to receive medical care; - the right to life; - abortion; - euthanasia; - human right to health, health care; - the human right to personal integrity, freedom and dignity; - the right to informed medical consent intervention; - the right to information about your health; - the right to secrecy about one's health. Medical secrecy.

<p>Topic 16 Medical and legal assessment of adverse consequences in medical practice.</p> <p>Legal qualification of defects in the provision of medical care. Iatrogenic pathology: - legal assessment of adverse treatment outcomes; - medical errors, accidents; - examination of defects in the provision of medical care. Working with medical documentation, expert opinions and situational tasks.</p>
<p>Topic 17 Offenses and legal responsibility in the field of health care.</p> <p>Offenses in health care and legal liability. - general legal issues responsibilities of medical workers; - civil liability treatment and prevention facilities; - administrative and disciplinary liability medical workers; - criminal liability of medical workers for committing professional crimes. Working with medical documentation, expert opinions and situational tasks.</p>
<p>Topic 18 Final control of knowledge (main module).</p> <p>Final control of knowledge in the discipline.</p>

5. Intended learning outcomes of the course

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

LO1	Learn, master modern knowledge and apply it in practice situations related to forensic medicine and forensic examination.
LO2	Acquire knowledge in the subject area of
LO3	Be able to determine the necessary list of laboratory and instrumental studies and evaluation of their results. Correctly apply modern methods of forensic medicine research and analysis of problematic issues of a medical nature that arise during investigation.
LO4	Be able to identify issues and conduct research related to improving the functioning of criminal justice and forensic medicine examinations in Ukraine.
LO5	Learn to navigate correctly in different types of forensic examination.
LO6	Assimilate the content of regulations that provide for criminal liability of medical workers for professional misconduct and demonstrate the ability to analyze them.

7. Teaching and learning activities

7.1 Types of training

<p>Topic 1. The subject and tasks of forensic medicine. Organizational and procedural foundations of forensic medical examination in Ukraine.</p>
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lect.1 "The subject and tasks of forensic medicine. Organizational and procedural foundations of forensic medical examination in Ukraine. General questions of forensic medical thanatology." (full-time course)

Forensic medicine: definition, content and tasks. The value of forensic medicine in the higher system medical education. Forensic examination, its role in the work of law enforcement and security health of Ukraine. The doctrine of death in forensic medicine. Death concept. Dying and its stages. Terminal condition and its forensic significance. Statement of the fact of death. Diagnosis of clinical and biological death, probable and probable / absolute / signs of death. Forensic establishment of the statute of limitations for death. Demonstration of the autopsy technique deceased in the section hall of the Department of Pathological Anatomy in real time and using video and photo materials.

pr.tr.1 "The subject and tasks of forensic medicine. Organizational and procedural foundations of forensic medical examination in Ukraine." (full-time course)

Forensic medicine: definition, content and tasks. The value of forensic medicine in the higher system medical education. Forensic examination, its role in the work of law enforcement and security health of Ukraine.

Topic 2. General questions of forensic medical thanatology. Terminal states. Probable and reliable signs of death. An autopsy demonstration.

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The doctrine of death in forensic medicine. Death concept. Dying and its stages. Terminal condition and its forensic significance. Statement of the fact of death. Diagnosis of clinical and biological death, probable and probable / absolute / signs of death. Forensic establishment of the statute of limitations for death. Demonstration of the autopsy technique deceased in the section hall of the Department of Pathological Anatomy in real time and using video and photo materials.

Topic 3. Forensic examination of the corpses of newborns. An autopsy demonstration.

pr.tr.2 "Forensic examination of the corpses of newborns. An autopsy demonstration." (full-time course)

Features of forensic examination (research) and technique of autopsy newborns. Establishment of newborn, full-term, maturity, live birth, viability and life expectancy after childbirth. Infanticide: active and passive. Demonstration of the method of autopsy in the section hall of the department of Pathological Anatomy real-time and using video and photo materials.

Topic 4. Forensic medical examination of victims, accused and other persons. The reasons and order of its holding. Establishing the severity of injuries.

pr.tr.3 "Forensic medical examination of victims, accused and other persons. The reasons and order of its holding. Establishing the severity of injuries." (full-time course)

Tasks of forensic medical examination of victims, accused and other persons. Determination of types of damage, age of application and their severity. Legal classification of injuries according to their severity according to Criminal Code of Ukraine. Working with medical documentation and forensic conclusions. Analysis of situational tasks using video and photo materials.

Topic 5. Forensic medical examination of controversial sexual conditions and sexual crimes.

pr.tr.3 "Forensic medical examination of controversial sexual conditions and sexual crimes." (full-time course)

Features of examination in cases of disputed sexual conditions and sexual crimes. Work with medical documentation and forensic conclusions. Analysis of situational tasks using video and photo materials.

Topic 6. General issues of forensic traumatology.

lect.2 "General issues of forensic traumatology. Forensic examination of injuries with blunt and sharp objects." (full-time course)

Definition of "trauma", "injury". Classification of damages depending on the factors, nature and severity. Features of the description of bodily injuries. Damage blunt objects, their classification. The mechanism of action of blunt objects and the nature of the damage arise from their action. Work with macrodrugs of various injuries, with medical documentation, conclusions of forensic medical examination, photos, videos, analysis of situational tasks. Types of blunt and sharp objects, the mechanism of causing damage. Morphological features bodily injuries caused by blunt and sharp objects. Causes of death from mechanical injury, due to the action of blunt and sharp objects. Work with macrodrugs of various injuries, with medical documentation, conclusions of forensic examination, photos, videos, analysis of situational tasks.

pr.tr.4 "General issues of forensic traumatology." (full-time course)

General issues of forensic traumatology. Definition of "trauma", "injury". Classification of damages depending on the factors, nature and severity. Features of the description of bodily injuries. Damage blunt objects, their classification. The mechanism of action of blunt objects and the nature of the damage arise from their action. Work with macrodrugs of various injuries, with medical documentation, conclusions of forensic medical examination, photos, videos, analysis of situational tasks.

Topic 7. Forensic examination of injuries with blunt and sharp objects.

pr.tr.4 "Forensic examination of injuries with blunt and sharp objects." (full-time course)

Types of blunt and sharp objects, the mechanism of causing damage. Morphological features bodily injuries caused by blunt and sharp objects. Causes of death from mechanical injury, due to the action of blunt and sharp objects. Work with macrodrugs of various injuries, with medical documentation, conclusions of forensic examination, photos, videos, analysis of situational tasks.

Topic 8. Forensic medical examination of traumatism and transport injury.

lect.3 "Forensic medical examination of traumatism and transport injury. Forensic examination of gunshot injuries." (full-time course)

Classification transport injury. Car injury and its main types. Features of the inspection of the place of the accident. Work with macrodrugs of various injuries, with medical documentation, conclusions forensic examination, photos, videos, analysis of situational tasks. The concept of gunshot wounds. Firearms, its types. Mechanism of the shot. Definition entrans and exit defekts on clothing and skin. Work with macrodrugs of various injuries, with medical documentation, conclusions of forensic medical examination, photos, videos, analysis of situational tasks.

pr.tr.5 "Forensic medical examination of traumatism and transport injury." (full-time course)
Classification transport injury. Car injury and its main types. Features of the inspection of the place of the accident. Work with macrodrugs of various injuries, with medical documentation, conclusions forensic examination, photos, videos, analysis of situational tasks.

Topic 9. Forensic examination of gunshot injuries.

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The concept of gunshot wounds. Firearms, its types. Mechanism of the shot. Definition entrans and exit defekts on clothing and skin. Work with macrodrugs of various injuries, with medical documentation, conclusions of forensic medical examination, photos, videos, analysis of situational tasks.

Topic 10. Forensic examination of mechanical asphyxia.

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The concept of hypoxia, asphyxia and mechanical asphyxia. Clinical picture of dying in asphyxia its stages. Classification of mechanical asphyxia. Characteristics of certain types of mechanical asphyxia. Work with medical documentation, conclusions of forensic medical examination, photos, videos, analysis of situational tasks.

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lect.4 "General information about poisons, their mechanism of 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. Features of inspection of a scene at suspicion of death from poisoning. Requirements for forensic medicine examination of the corpse in case of suspicion of poisoning. Rules for the removal of organs and tissues of the corpse for laboratory tests. Classification of poisons. Work with medical documentation, conclusions of forensic medical examination, hotographic materials, analysis of situational tasks.

pr.tr.7 "General information about poisons, their mechanism of 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. Features of inspection of a scene at suspicion of death from poisoning. Requirements for forensic medicine examination of the corpse in case of suspicion of poisoning. Rules for the removal of organs and tissues of the corpse for laboratory tests. Classification of poisons. Work with medical documentation, conclusions of forensic medical examination, hotographic materials, analysis of situational tasks.

Topic 12. Poisons with a predominant local effect.

pr.tr.7 "Poisons with a predominant local effect." (full-time course)
Characteristics and forensic diagnosis of corrosion poisoning (caustic acids and alkalis, phenols). Work with photo materials, analysis of situational tasks.

Topic 13. Poisons with a predominant general effect (resorptiv).

pr.tr.8 "Poisons with a predominant general effect (resorptiv)." (full-time course)

Characteristics and forensic diagnosis of poisoning by blood, destructive and neuro-functional poisons. Working with photographic materials, analysis of situational tasks.

Topic 14. Legal foundations of medical legislation. Organization, management and legal regulation in the field of health care.

lect.5 "Legal foundations of medical legislation. Organization, management and legal regulation in the field of health care. General structure and classification of human rights in health care. Patient rights. Professional rights and obligations of doctors." (full-time course)

The concept, functions and social purpose of the state. State regulation of protection health and medical activities as a function of the state. Legal bases of bioethics. Medical law in the system of higher medical education. Legal relations in the field of health care: concept and composition. Individuals as subjects legal relations in the field of health care. Objects of legal relations in the field of health care. Personal non-property rights in the field of health care of an individual: - the right to receive medical care; - the right to life; - abortion; - euthanasia; - human right to health, health care; - the human right to personal integrity, freedom and dignity; - the right to informed medical consent intervention; - the right to information about your health; - the right to secrecy about one's health. Medical secrecy.

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Topic 16. Medical and legal assessment of adverse consequences in medical practice.

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<p>Topic 17. Offenses and legal responsibility in the field of health care.</p>
<p>lect.7 "Offenses and legal responsibility in the field of health care." (full-time course)</p> <p>Offenses in health care and legal liability. - general legal issues responsibilities of medical workers; - civil liability treatment and prevention facilities; - administrative and disciplinary liability medical workers; - criminal liability of medical workers for committing professional crimes. Working with medical documentation, expert opinions and situational tasks.</p>
<p>pr.tr.10 "Offenses and legal responsibility in the field of health care." (full-time course)</p> <p>Offenses in health care and legal liability. - general legal issues responsibilities of medical workers; - civil liability treatment and prevention facilities; - administrative and disciplinary liability medical workers; - criminal liability of medical workers for committing professional crimes. Working with medical documentation, expert opinions and situational tasks.</p>
<p>Topic 18. Final control of knowledge (main module).</p>
<p>pr.tr.11 "Final control of knowledge (main module)." (full-time course)</p> <p>Final control of knowledge in the discipline.</p>

7.2 Learning activities

LA1	E-learning in systems (the list is specified by the teacher, for example, Google Classroom, Zoom and YouTube channel format)
LA2	Discussion of cases
LA3	Preparation for practical classes
LA4	Watching movies
LA5	Solving situational problems
LA6	Preparation for current and final control

8. Teaching methods

Course involves learning through:

TM1	Interactive lectures
TM2	Analysis of specific situations (Case-study)
TM3	Brain storm
TM4	Think-pair-share
TM5	Role play

TM 1-2 Interactive lectures. TM 3-6 Practical classes. Practically-oriented teaching. Analysis of specific situational tasks. Brain storm. Exchange of views. Role play.

SS 1. Ability to abstract thinking, analysis and synthesis. SS 2. Ability to learn, master modern knowledge and apply them in practical situations. SS 3. Knowledge and understanding subject area and understanding of professional activity.

9. Methods and criteria for assessment

9.1. Assessment criteria

ECTS	Definition	National scale	Rating scale
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9.2 Formative assessment

FA1	Solving situational problems
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): testing, written and oral answers.
SA2	Final control (main modul): testing, written answers

Form of assessment:

7 semester		200 scores
SA1. Current control works (intermediate modular control): testing, written and oral answers.		120
	testing, written and oral answers (4x30)	120
SA2. Final control (main modul): testing, written answers		80
	testing, written answers	80
8 semester		200 scores
SA1. Current control works (intermediate modular control): testing, written and oral answers.		120
	testing, written and oral answers (4x30)	120
SA2. Final control (main modul): testing, written answers		80
	testing, written answers	80

Form of assessment (special cases):

The student's assessment is formed as follows: 1. Survey of students - 38 points. 2. Testing - 14 points. 3. Multimedia presentation (performance of work, presentation, defense) - 14 points. 4. Abstracts (writing and defense) - 14 points. 5. 4 tests (tests) - 40 points (10 points each). Final control form - differential test - 80 points.

10. Learning resources

10.1 Material and technical support

MTS1	Models and models (organisms and individual organs, technical installations and structures, etc.)
MTS2	Information and communication systems
MTS3	Library funds
MTS4	Computers, computer systems and networks
MTS5	Multimedia, video and sound reproduction, projection equipment (video cameras, projectors, screens, smart boards, etc.)
MTS6	Software (to support distance learning, Internet surveys, virtual laboratories, virtual patients, to create computer graphics, modeling, etc.)
MTS7	Projection equipment

10.2 Information and methodical support

Essential Reading	
1	Mykhailychenko B.V., Biliakov A.M. Forensic Medicine: Textbook, Kyiv, 2017. – 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.
Web-based and electronic resources	
1	https://pathology.med.sumdu.edu.ua/
2	Official website of the Ministry of Internal Affairs of Ukraine: http://mvs.gov.ua
3	The official website of the State Statistics Committee: http://www.ukrstat.gov.ua
4	Official website of the Supreme Council of Ukraine: http://portal.rada.gov.ua .
5	Information resources of the Internet, for example: www.liga.net .