

**SYLLABUS OF THE EDUCATIONAL COMPONENT
FORENSIC MEDICINE (DENTISTRY). MEDICAL LAW.**

(name of the educational component)

Specialty: **221 "Dentistry"**

Educational and professional program: **"Dentistry"**

Component code in the educational program: **OK26**

Higher education level: **second (master's)**

Form of education: **full-time (full-time)**

Year of study: **3**

Semester(s): **6**

Type of educational component: **compulsory**

Academic year: **2026-2027**

Volume: **3.0 ECTS credits (90 hours)**

Training sessions: **lectures, practical classes, consultations**

Final control: **test**

Prerequisites: **VK39**

Department/subdivision: **Department of Forensic Medicine, Medical Law named after Honored Prof. M.S. Bokarius, 35 Amosova Str., Branch No. 2 of the Kharkiv Regional Bureau of Forensic Medical Examination, 3rd floor**

Head of the educational component: **Assoc. of professor Leontiev Pavlo Oleksandrovyeh,**
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Page of the educational component in the Distance Learning System of KhNMU (Moodle):
<http://distance.knmu.edu.ua/course/view.php?id=5689>

DESCRIPTION OF THE EDUCATIONAL COMPONENT

OK "Forensic Medicine (Dentistry) and Medical Law" provides thorough knowledge of the theory and practice of forensic medicine, which is due to the fact that, according to the current legislation, Law enforcement agencies have the right to involve a doctor of any specialty in the performance of expert functions, regardless of the faculty at which he received his medical education, so forensic medical knowledge is important for every doctor who, if necessary, must correctly apply it in practical activities. Forensic medicine is a branch of science that studies the issues of medical, biological and medical-forensic nature that arise in the practical activities of justice and judicial bodies. Medical jurisprudence provides knowledge on the legal foundations of medical activity. These scientific fields have a common legal basis, which led to their combination into one discipline - forensic medicine and medical legislation.

PURPOSE OF THE COURSE: to obtain students' knowledge of forensic medicine and medical jurisprudence, the formation of competence of highly qualified specialists in the field of dentistry, capable of applying the skills acquired in the study of forensic medicine and medical law in solving complex tasks and problems in the process of learning and further professional activity.

LEARNING OUTCOMES:

- expansion and activation of students' previously acquired knowledge, skills and skills acquired in the study of other medical-biological and clinical Disciplines;
- obtaining competence to perform the functions of a forensic expert by a doctor in accordance with procedural legislation;
- obtaining the ability to establish the fact and statute of limitations of biological death;
- obtaining the ability to describe the corpse at the place of its discovery;
- obtaining the ability to describe bodily injuries;
- demonstrate the ability to determine the severity of the injury during a forensic dental examination of the victim;
- demonstrate the ability to describe the dental status of the corpse;
- obtaining the ability to identify and describe material evidence of biological origin;

- demonstrate the ability to identify an unknown person by dental status;
- obtaining knowledge and competencies on the legal basis of medical activity in accordance with the current legislation;
- demonstrate the ability to analyze the content of regulations related to medical activities and operating in the field of public health.

CONTENT OF THE EDUCATIONAL COMPONENT

List of lecture topics (16 hours):

1. Subject, tasks and history of the development of forensic medicine. Organizational and procedural
the basics of forensic medical examination in Ukraine. Forensic thanatology. Examination of the corpse at the scene. Forensic autopsy of the corpse.
2. Forensic traumatology. Forensic medical examination of injuries caused by blunt and sharp objects. Forensic medical examination of gunshot injuries.
3. Forensic medical examination of living persons. Establishing the severity of bodily Damage. Determination of sexual conditions and sexual crimes. Forensic Dental personal identification.
4. Medical Law of Ukraine in the Systems of Law and Legislation. International and regional standards in the field of healthcare.
5. Fundamentals of economic activity and insurance in the field of health care in Ukraine. The legal nature of medical care and medical services. Contract for the provision of medical services.
6. Legal status of subjects of medical legal relations. Personal non-property human rights in the field of health care.
7. Offenses in the field of health care and legal responsibility of medical workers for professional offenses Defects in the provision of medical care. Iatrogenia.
8. Legal regulation of dental practice in Ukraine Procedures and mechanisms for protecting the rights of subjects of medical legal relations.

List of topics of practical / laboratory classes / seminars (34 hours):

1. Subject, tasks and history of the development of forensic medicine. Organizational and procedural foundations of forensic medical examination in Ukraine.
2. Forensic thanatology. Examination of the corpse at the scene. Features of forensic autopsy of corpses of newborns. Infanticide. Forensic autopsy of the corpse.
3. Forensic traumatology. Forensic medical examination of injuries caused by blunt objects.
4. Forensic medical examination of damage caused by sharp objects.
5. Forensic medical examination of gunshot injuries
6. Forensic medical examination of mechanical asphyxia
7. Forensic medical examination of material evidence.
8. Forensic medical examination of fatal poisonings
9. Forensic medical examination of injuries due to the action of physical factors: electric current, high and low temperature, etc.
10. Forensic medical examination of living persons. Determination of the severity of bodily injuries. Determination of sexual conditions and sexual crimes. Forensic Dental Identification of Personality.
11. Medical Law of Ukraine in the Systems of Law and Legislation. International and regional standards in the field of healthcare.
12. Fundamentals of economic activity and insurance in the field of health care in Ukraine. The legal nature of medical care and medical services. Contract for the provision of medical services.
13. Legal status of subjects of medical legal relations. Personal non-property human rights in the field of health care

14. Offenses in the field of health care and legal responsibility of medical workers for professional offenses Defects in the provision of medical care. Iatrogenia.
15. Legal regulation of dental practice in Ukraine Procedures and mechanisms for protecting the rights of subjects of medical legal relations.

List of topics of independent work of the student (40 hours)

1. Subject, tasks and history of the development of forensic medicine. Organizational and procedural foundations of forensic medical examination in Ukraine.
2. Forensic thanatology. Examination of the corpse at the scene. Features of forensic autopsy of corpses of newborns. Infanticide. Forensic autopsy of the corpse.
3. Forensic traumatology. Forensic medical examination of injuries caused by blunt objects.
4. Forensic medical examination of damage caused by sharp objects.
5. Forensic medical examination of gunshot injuries
6. Forensic medical examination of mechanical asphyxia
7. Forensic medical examination of material evidence.
8. Forensic medical examination of fatal poisonings
9. Forensic medical examination of injuries due to the action of physical factors: electric current, high and low temperature, etc.
10. Forensic medical examination of living persons. Determination of the severity of bodily injuries. Determination of sexual conditions and sexual crimes. Forensic Dental Identification of Personality.
11. Medical Law of Ukraine in the Systems of Law and Legislation. International and regional standards in the field of healthcare.
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The SRS is aimed at deepening and consolidating the theoretical knowledge gained during classroom training and contributing to the formation of professional competencies. The results of the SRS are subject to control and are included in the final control of knowledge.

Consultations: online, by prior registration on the course page in the Distance Learning System of the course.

Teaching methods: lecture, exercises and practical work, solving situational problems and cases, standardized patient method

EVALUATION

Current Learning Activities (PND). Assessment of the academic performance of students is carried out in accordance with the Instruction on Evaluation of Educational Activities of Higher Education Applicants at KhNMU (<https://knmu.edu.ua/documents/normatyvni-dokumenty-navchalnogo-proczesu/>). The grade for a practical or final lesson is from 2 to 5 points. Submission of tasks for late reasons entails a decrease in the grade in accordance with the percentage of delay in time from the time of completion of the task. Tasks are checked up to 24 hours. Grades are put in an electronic journal. Unsatisfactory grades are worked out in accordance with the Regulations on the procedure for working out academic classes by students of KhNMU (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf).

The final semester control is carried out after the completion of the study of the educational

component. **The form of control** is "offset". Points for educational components are calculated as the arithmetic mean of the points of current control for all topics during the entire period of study of the educational component (with an accuracy of hundredths) according to the table "Recalculation of the average grade for current control into a multi-point scale (for disciplines ending in a test)", which is added automatically within the functionality of the electronic journal of the ACS. General educational activities are determined in points from 120 to 200 and a mark – "enrolled" or "not enrolled".

Appeal of the results of the final control is carried out in accordance with the procedure established in KhNMU (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_apel_kontrol.pdf).

POLICIES OF THE EDUCATIONAL COMPONENT

Recommendations for working on the course: take an active part in all forms of work in the classroom, devote 1-2 hours daily to doing independent work and preparing for classes, asking questions during classes, attending consultations, submitting tasks on time and performing all forms of control.

Attending classes. Attendance of lectures and practical classes is mandatory. The form of clothing during offline classes is a white medical gown. If you are late for more than 5 minutes, you may not be allowed to class. Missed classes are practiced in accordance with the Regulations on the procedure for practicing academic classes by students of KhNMU (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_vidprac_zaniat.pdf).

Academic integrity. KhNMU stands on the positions of zero tolerance to manifestations of academic dishonesty. Any violations of the principles of academic integrity entail responsibility in accordance with the procedure established in KhNMU (https://knmu.edu.ua/wp-content/uploads/2021/05/polog_ad-1.pdf).

The use of electronic gadgets and artificial intelligence tools is allowed only with the permission of the teacher.

Policy on persons with special educational needs. Applicants with special educational needs should contact the teacher to develop an individual educational trajectory.

Teacher response time: 24 hours.

Technical requirements for the course:

- access to a computer, laptop, tablet or smartphone
- Corporate Google account with your own photo
- skills in working with Google Workspace (Google Meet, Docs, Sheets, Slides, Forms) and Moodle
- *Other requirements of the department*

Technical support: ACS (ev.shevtsov@knmu.edu.ua), Google (tehotdelknmu@gmail.com), Moodle (al.korol@knmu.edu.ua)

RECOMMENDED SOURCES

Basic literature:

1. Kyu Kurenyov, OS. Poymanova, TG. Ivanchenko, TA. Shidlovska. Characteristics of video laryngostroboscopy in functional disorders of voice formation. *Otolaryngology*. 2019; 1-s(2):129-130.
2. Gomonilova P.G. Features of forensic medical examination of death from hypothermia. Collection of abstracts of the conference "Medicine of the Third Millennium", 2022. – C. 34-36.
3. Lysenko D.I. Forensic medical diagnosis of deaths in case of carbon monoxide poisoning. Proceedings of the Conference of Students and Young Scientists "Medicine of the Third Millennium", 2023 – pp. 359-360

4. Kulish A.Y. Physical Activity as a Cause of Sudden Death in Forensic Medical Examination Collection of Abstracts of the Conference of Students and Young Scientists "Medicine of the Third Millennium", 2023 – P. 357-359
 5. Establishing the exact criteria for diagnosing the statute of limitations of death in forensic medical practice / I.G. Savka, N.M. Kozan, O.V. Dunaev [et al.] // Forensic medical examination. – 2021. – № 1. – P. 18-25.
 6. Sarkisova Y.V. Diagnostic Possibilities of Accurate Determination of the Statute of Death by the Concentration of Electrolytes in the Vitreous Body of the Human Eye / Yu.V. Sarkisova // Forensic Medical Examination. – 2021. – № 1. – P. 79-86.
 7. Voronov V.T. Tendencies in the Development of Forensic Medical Means and Technologies for the Possibility of Accurate Establishment of the Statute of Limitations of the Onset of Death / V.T. Voronov // Forensic Medical Examination. – 2022. – № 1. – P. 18-24.
 8. Sokol V.K. Features of microscopic changes in the tissue of the human body at different intervals of the statute of death / V.K. Sokol // Forensic medical examination. – 2022. – № 1. – P. 30-35.
 9. Ivaskevych I.B. Application of the method of diffuse tomography of biological preparations in forensic medical differential diagnosis of alcohol and carbon monoxide poisoning at different time intervals after the onset of death / I.B. Ivaskevych // Forensic medical examination. – 2022. – № 1. – P. 69-81.
 10. Laktionova O.I. Transient states as a way to determine the postpartum life expectancy of a newborn in forensic medical examination / O.I. Laktionova, K.D. Kolyada, R.S. Fomenko // International scientific journal "The Grail of Science". – 2022. – № 16. – P. 555-559
 11. Hallak B, Wihl VS, Boselie F, Salim B. Repair of displaced thyroid cartilage fracture using miniplate osteosynthesis. *BMJ Case Reports*. 2018; 11:e226677.
 12. J. Payne-James, R.M. Jones Simpson's Forensic Medicine, 14th Edition 14th Edition. 2019. USA, Boca Raton: CRC Press. 353 p.
 13. P. Moonsamy UM. Sachdeva, CR. Morse Management of laryngotracheal trauma. *Ann Cardiothorac Surg*. 2018. 7(2):210-216.
 14. Lesnikova I., Schreckenbach M.N., Kristensen M.P., Papanikolaou L.L., Hamilton-Dutoit S. Usability of Immuno-histochemistry in Forensic Samples With Varying Decomposition // *The Am. Journal of Forensic Med and Pathol*. 2018 - Volume 39
- Supporting literature
1. Aksakal C, Karaca I. Isolated vocal cord hematoma developing after blunt neck trauma. *Turkish Journal of Emergency Medicine*. 2019;19:30-32.
 2. KA. Lalwani Current diagnosis & treatment otolaryngology-head and neck surgery, fourth edition 2019, USA: McGraw-Hill Education. 1264 p.
 3. VV. Pillay Textbook of Forensic Medicine and Toxicology. 19th Edition. 2019. India: Paras Medical Publisher; 800 p.
 4. WU. Spitz, FJ. Diaz pitz and Fisher's Medicolegal Investigation of Death 5th Edition. 2020. USA: Charles C Thomas Pub Ltd. 768 p.
 5. Tamilmani K. Practical Guide for Forensic Medicine and Toxicology 2nd. Jaypee Brothers Medical Publishers (P) Ltd, 2021. – 260 p.
 6. Biswas G. Review of Forensic Medicine and Toxicology (Including Clinical & Pathological Aspects): Including Clinical and Pathological Aspects Paperback, 2021. – 766 p.

7. Dhattarwal S.K, Jakhar J.K., Yadav N. Practical aspects of Forensic Medicine For MBBS and MD Students Paperback. Orange Books Publication, 2021. – 240 p.
8. Textbook of Forensic Medicine and Toxicology 5th Edition 2022 with Practical Guide by Dr. P.C. Ignatius, Elsevier, 2022. – 768 p.
9. Aggrawal A. Textbook Of Forensic Medicine and Toxicology 2nd. APC Books. 2021. – 823 p.
10. Khazi M.A. Forensic Medicine and Toxicology (Theory/Practical skills, Viva) 2nd. 2021. Paras Medical Books Pvt Ltd. – 564 p.
11. Manzhula A., Husarchuk K. The role of forensic entomology in determining the age of death of an exhumed corpse. Abstracts of International Scientific Interdisciplinary Conference – 2022 (ISIC). – P. 15-16
12. Mahanta P. Modern Textbook of Forensic Medicine and Toxicology 1st. Jaypee Brothers Medical Publishers (P) Ltd 2023. – 898 p.
13. Faculty D. DAMS Forensic Medicine & Toxicology 2023 -CONCEPT BOOK (Paperback, DAMS Faculty). 2023. – 307 p.
14. Chand S. Essentials of Forensic Medicine and Toxicology 2nd. Elsevier Health Sciences, India 2023. – 650 p.
15. Detection of pathological changes in the architectonics of polycrystalline blood films using laser-induced polarization Interferometry / O. Dunaev, D. Kvasniuk, L.. Trifonyuk [et al.] // Proc. of SPIE. – 2022. – Vol. 12126. – P. 1212629-1.
16. Cholinesterase in different types of the muscle tissue during the early postmortem period for diagnosis of death coming / L.Cherkashyna, A. Shklyar, R. Sukhonosov [et al.] // Journal of Medical Science. – 2021. – Vol. 20, №. 1. – P. 95-100.

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