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Должность: Ректор
Дата подписания: 25.08.2026 10:40:38
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

**Federal State Autonomous Educational Institution of Higher Education
Peoples' Friendship University of Russia
named after Patrice Lumumba
RUDN University
Institute of Medicine**

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

FORENSIC MEDICINE

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Dentistry

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The discipline «Forensic medicine» is included in the program of the specialty «Dentistry» for the field of studies 31.05.03 «Dentistry» and is studied in the 10th semester of the 5th year. The discipline is implemented by the Department of Forensic Medicine. The discipline consists of 7 sections and 17 topics and is aimed at studying issues of a biomedical nature that arise in law enforcement agencies during the investigation of criminal or civil cases.

The course is aimed at building up students' professional competencies based on knowledge of theoretical and practical issues of forensic medical examination to the extent necessary for the successful fulfillment of the duties of a specialist on the instructions of investigative authorities in the implementation of the tasks of Russian healthcare contributing to further improvement of therapeutic and prophylactic healthcare quality.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The course «Forensic medicine» is expected to contribute to the following competences (parts of the competences):

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-11	Being able to implement the quality management principles in their professional activity	GPC-11.2. Analyzing and critically evaluating the quality of professional activity according to the specified indicators. GPC-11.3. Developing a plan of organizational and methodological measures to achieve a proper level of professional activity quality.
GPC-9	Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	GPC-9.1. Being able to use the algorithm of clinical, laboratory and functional diagnosis in dealing with professional tasks. GPC-9.2. Evaluating the results of clinical, laboratory and functional diagnosis in dealing with professional tasks. GPC-9.3. Determining morpho-functional, physiological states and pathological processes of the human body.

3. COURSE IN HIGHER EDUCATION PROGRAM STRUCTURE

The course «Forensic medicine» is a part of Compulsory Module of the block B1 of the Education Programme.

Within the framework of the current Education Programme, students also master other disciplines and/or practices that contribute to achieving the planned results of mastering the discipline «Forensic Medicine».

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)	Competence code
PC-9	Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	Histology, embryology, cytology - Histology of the mouth cavity; Pediatric Dentistry; Diseases of the head and neck; Local anesthesia and anesthesiology in dentistry; Microbiology, virology - Microbiology of the oral cavity; Normal physiology, physiology of the maxillofacial region; Orthodontics and pediatric prosthetics; Oral Surgery; Maxillofacial and gnathic surgery; Obstetrics; Biological Chemistry - Biochemistry oral cavity; Pathophysiology - Pathophysiology of the head and neck; Medical rehabilitation; Radiation diagnostics; Dental prosthetics (simple prosthetics); Dental prosthetics (complex prosthetics); Telemedicine; Human anatomy; Pathological Anatomy - Head and neck pathology; Ophthalmology; Topographic anatomy and operative surgery of the head and neck;	
PC-11	Being able to implement the quality management principles	Public health and healthcare; Disaster Medicine;	

Competence code	Competence descriptor	Competence formation indicators (within this course)	Competence code
	in their professional activity		

* To be filled in according to the competence matrix of the higher education programme.

2. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 2 credits (72 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (**full-time training**)**

Type of academic activities	Total academic hours		Semesters/training modules
			10
<i>Contact work, hours</i>	51		51
<i>Lectures (L)</i>	0		0
<i>Lab work (LW)</i>	34		34
<i>Seminars (S)</i>	17		17
<i>Self-studies</i>	18		18
<i>Evaluation and assessment (exam/passing/failing grade)</i>	3		3
Course workload	academic hours	72	72
	credits	2	2

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Section 1. Procedural and organizational issues of forensic medical expertise. Inspection of the accident scene and examination of the corpse on the accident scene. Forensic thanatology (general and particular).	1.1 Structure of the forensic medical service in the Russian Federation. Forensic medicine, definition. Forensic medicine and forensic medical expertise. Rights and duties of a forensic medical expert. Types of forensic expertise. Objects of forensic medical examination. Forensic medical examination at the preliminary	S

	investigation and in court. Forensic medical documentation.	
	1.2 Examination of the corpse on the accident scene. Examination of a corpse on the accident scene (procedural issues, organization, stages and types of inspection of the scene). The tasks of a specialist in forensic medicine and the sequence of actions during examination of a corpse on the accident scene. Procedural registration of the inspection of the accident scene and examination of the corpse on the accident scene.	S
	1.3 Determining the time of death. The process of dying and concept of death. Terminal states. The concepts of clinical and biological death. Death certification. Supravital reactions. Early cadaveric changes. Late cadaveric changes. The concept of the cause of death. Competing causes of death. Types of death by category, manners of violent death: murder, suicide, accident.	S
Section 2. Forensic medical expertise of a corpse (forensic examination of a corpse). Forensic medical examination of sudden death	2.1 The procedure for the appointment and organization of a forensic medical	LW

	examination (expertise) of a corpse. The reasons for forensic medical expertise (examination) of a cadaver. Autopsy technique. Forensic medical documentation. Principles of formulating a forensic medical diagnosis and conclusions (expert opinion) based on forensic medical expertise (examination) of a cadaver. Preparation of a death certificate (ICD).	
	2.2 Forensic medical expertise of sudden death. Pathogenesis of sudden death. Coronary heart disease. Atherosclerotic disease. Hypertension. Pneumonia, tuberculosis.	LW
Section 3. General forensic traumatology (thanatogenesis of death in various types of trauma), blunt trauma, falling from a height, vehicle trauma. Features of injuries to the maxillofacial region in various types of trauma.	3.1 The doctrine of injuries. Injuries caused by blunt solid objects (bruises, abrasions, wounds, fractures). Mechanisms of damage, morphological properties and distinctive features.	S
	3.2 Vehicle injury, damage to health and death from physical factors. Classification of automobile and railway injuries.	S

	Mechanisms and phases of damage in various types of automobile and railway injuries. Specific and characteristic injuries.	
	3.3 Features of thanatogenesis due to different external factors. Acute and massive blood loss. Emboly. Compression of vital organs by blood. Anaphylactic shock.	S
	3.4 Damages to the maxillofacial region due to these types of trauma. Features of injuries to the soft tissues of the face due to blunt trauma. Injuries to teeth and jaws.	S
Section 4. Laboratory research methods in forensic medicine.	4.1 General overview of forensic biology. Physical evidences as an object of a forensic medical expertise.	LW
	4.2 Forensic medical expertise of the physical evidences. Examination of biological evidences (blood, semen, saliva, hair). Methods of identification, collecting and packaging of traces and physical evidences of biological origin.	LW
Section 5. Forensic medical expertise of injuries due to sharp objects and gunshot injuries.	5.1 Mechanisms of formation, morphological properties and	LW

	specific features of injuries. Features of gunshot injuries at different firing distances (shot at close range, shots from close and long range). Signs of an entrance and exit gunshot wound. Types of wound channels. The mechanism of formation and morphological signs of damage by sharp tools.	
	5.2 Damages to the maxillofacial region due to these types of trauma. Incised, punctured, stabbed, and chopped wounds of the face. Differential diagnosis of gunshot and puncture wounds of the soft tissues of the face.	LW
Section 6. Forensic personal identification by dentition and related issues	6.1 Personal identification in forensics, its current problems and issues. Methods of personal identification in forensic medicine. Estimating of the age.	LW
	6.2 Sex and age estimation by teeth. Identification of victims in emergency situations (mass disasters). Examination of the features of the facial skeleton, teeth and dentition using the method of teleroentgenography and orthopantomography. Determination of	LW

	age, gender, and ethnic characteristics by teeth and by the structural features of the tongue mucosa pattern and the relief of the hard palate.	
Section 7. Forensic medical expertise of victims, defendants, and other persons. Expertise of assessment of loss of general and professional ability to work. Forensic medical expertise of professional offenses of healthcare specialists.	7.1 Forensic medical examination of victims, accused persons, etc. Qualifying signs of severe, moderate and mild damage to health. Ways of causing damage to health (beating, torment, torture). Expertise of assessment of loss of general and professional ability to work. Forensic medical documentation.	S
	7.2 Forensic medical expertise in criminal and civil cases of professional violations of health care specialists. Professional and vocational crimes of health care specialists. Board and complex forensic medical expertise. Professional and vocational crimes of medical specialists. Board and complex forensic medical expertise. Expert commissions, their members, typical issues to be solved during the board examination, the limits of competence. The importance of forensic medical expertise materials for analysis and prevention of defects	S

	in the therapeutic and diagnostic work of medical institutions.	
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* - filled in only for **FULL-time** study: L – lectures; LW – laboratory work; S - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lab-work	An auditorium for laboratory work, individual consultations, current control and interim certification, equipped with a set of specialized furniture and equipment.	A set of specialized furniture; a mannequin for simulating critical conditions; medical instruments; dummies, anatomical preparations; osteological preparations; histological micro-preparations; Micmed-1 var. 1 microscopes (in the amount of 20 pcs.); Lenovo laptop ThinkBook 15 G2 ITL 20VE00G6RU; projector 3D ViewSonic PJD5234; multimedia

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		presentations; educational anonymized copies of expert opinions, materials of criminal and civil cases.
Computer classroom	A computer classroom for conducting classes, group and individual consultations, current control and interim certification, equipped with personal computers (2), a blackboard (screen) and multimedia presentation equipment.	ASUS VivoBook Laptop M533IA-BN289T (2 pcs.), interactive panel, Virtual Simulation Trainer "Examination of a Corpse at the Scene of Discovery."
Seminar	Classroom for seminars, group and individual consultations, monitoring and mid-term assessment, equipped with a set of specialized furniture and multimedia presentation equipment.	A set of specialized furniture; a mannequin for simulating critical conditions; medical instruments; dummies, anatomical preparations; osteological preparations; histological micro-preparations; Micmed-2 microscope; Lenovo monoblock; Epson EHTW5600 projector; interactive panel; multimedia presentations; educational anonymized copies of expert opinions, materials of criminal and civil cases.

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Self-studies	Classroom for self-studies (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with stable wireless Internet connection.	A set of specialized furniture, a laptop ASUS VivoBook M533IABN289T, interactive panel, medical instruments, critical condition simulation dummy

* - the classroom for self-studies work of students is **MANDATORY!**

7. RECOMMENDED SOURCES FOR COURSE STUDY

a) Main readings:

1. Forensic medicine: textbook / D.V. Sundukov, E.H. Barinov, A.M. Golubev [et al.]. - Electronic text data - Moscow: RUDN University, 2025. - 724 p.: ill. - ISBN 978-5-209-12328-6: 135.06. 30 copies.
2. Forensic medical examination of stab wounds: a textbook / E.H. Barinov, A.R. Bashirova, M.V. Breskun, P.S. Velenko, R.E. Kalinin, A.V. Smirnov, D.V. Sundukov, E.V. Fokina.; edited by E. H. Barinov, M.V. Breskun, D.V. Sundukov. - Electronic text data. - Moscow: RUDN University, 2026. - 101 p. 50 copies.
3. Forensic medical examination in cases of the quality of medical care: a textbook / E.H. Barinov, R.E. Kalinin, D.V. Sundukov, M.D. Guseva ; edited by E.H. Barinov, D.V. Sundukov. - Electronic text data. - Moscow : RUDN University, 2025. - 161 p. : ill. - ISBN 978-5-209-12591-4:31.86. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=525340&idb=0. 10 copies.
4. Forensic thanatology. Determination of criteria for the duration of the postmortem period: forensic entomological and photocolormetric diagnostics : a textbook / E. H. Barinov, A. R. Bashirova, R. E. Kalinin [et al.] ; edited by E.H. Barinov, D.V. Sundukov. - Electronic text data. - Moscow: RUDN University, 2025. - 134 p.: ill. - ISBN 978-5-209-12592-1: 27.52. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=525336&idb=0. 10 copies.
5. The history of the development and formation of personal identification by dental status. Monograph / S.A. Amoev, E.H. Barinov, V.A. Bondar, V.K. Dadabaev, A.I. Manin, O.I. Manin, A.V. Orlovskaya, K.A. Pashkov, P.O. Romodanovsky, A.V. Smirnov, D.V. Sundukov, E.V. Fokina, A.A. Khalikov; edited by professor E.H. Barinov, professor P.O. Romodanovsky. - Moscow: Prospekt, 2025. – 150 p. 50 copies.
6. Forensic medical examination in civil proceedings in "medical" cases : a textbook / E.H. Barinov, A.R. Bashirova, R.E. Kalinin [et al.]; edited by E.H. Barinov, D.V. Sundukov. - Electronic text data. - Moscow : RUDN University, 2023. - 201 p. : ill. - ISBN 978-5-209-11764-3: 162.97. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=515835&idb=0. 10 copies.

7. Forensic Medicine. Textbook : учебник / Yu.I. Pigolkin, I.A. Dubrovin ; Pigolkin Yu.I., Dubrovin I.A. - Москва : ГЭОТАР-Медиа, 2023. - 472 с. - ISBN 978-5-9704-7087-9. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=519358&idb=0
8. Methods of radiation diagnostics during the examination of living persons: a textbook / E.H. Barinov, A.R. Bashirova, V.K. Dadabaev [et al.] ; edited by E.H. Barinova, D.V. Sundukova. - Electronic text data. - Moscow : RUDN University, 2023. - 165 p.: ill. - ISBN 978-5-209-11430-7: 160.64. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=510032&idb=0. 65 copies.
9. The validity of the conclusion of a forensic medical examination on "medical" cases: a textbook / E.H. Barinov, A.R. Bashirova, R.E. Kalinin [et al.] ; edited by E.H. Barinov, D.V. Sundukov. Moscow : RUDN University, 2022. 155 p. ISBN 978-5-209-11019-4. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=507062&idb=0. 45 copies.
10. Forensic medical examination of sudden death: a textbook / D.V. Sundukov, A.M. Golubev, A.R. Bashirova, A.V. Smirnov. - Electronic text data. - Moscow : RUDN University, 2021. - 73 p.: ill. - ISBN 978-5-209-11242-6. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=505899&idb=0. 80 copies.
11. Forensic medical examination of living persons : a textbook / D.V. Sundukov, E.H. Barinov, P.O. Romodanovsky [et al.]. - Electronic text data. - Moscow: RUDN University, 2021. - 121 p.: ill. - ISBN 978-5-209-10211-3. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=496180&idb=0. 3 copies.
12. Forensic medical examination in cases of death from exposure to technical and atmospheric electricity : a textbook / E.H. Barinov, D.V. Sundukov, P.O. Romodanovsky [et al.]. - Electronic text data. - Moscow : RUDN University, 2021. - 107 p.: ill. - ISBN 978-5-209-10455-1. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=499795&idb=0. 75 copies.

6) Additional readings:

1. Criminal liability for crimes related to the violation of professional duty by medical workers: a textbook / E.H. Barinov, D.V. Sundukov, P.O. Romodanovsky [et al.]. - Electronic text data. Moscow: RUDN University, 2020. 88 p. ISBN 978-5-209-09665-8. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=488032&idb=0. 5 copies.
2. Forensic medical examination in cases of disputed sexual conditions and sexual crimes : an educational and methodical manual / E.H. Barinov, P.O. Romodanovsky, E.N. Cherkalina [et al.]. - Electronic text data. - Moscow: RUDN University, 2020. - 67 p. : ill. - ISBN 978-5-209-10378-3. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=496453&idb=0. 3 copies.
3. Forensic medical examinations in civil proceedings: a textbook / E.H. Barinov, D.V. Sundukov, A.V. Kovalev, O.L. Romanova. - Electronic text data. - M. : RUDN University, 2019. - 104 p.: ill. - ISBN 978-5-209-08875-2. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=476541&idb=0. 73 copies.
4. Identification of a person by the features of the structure of teeth and dentition: a textbook / E.H. Barinov, A.I. Manin, P.O. Romodanovsky [et al.]. - Electronic text data. Moscow : RUDN University, 2019. 124 p. (in Russian) ISBN 978-5-209-09407-4. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=481405&idb=0. 3 copies.
5. Forensic medicine in diagrams and drawings: a textbook / P.O. Romodanovsky, E.H. Barinov. - Electronic text data. - M.: Prospekt, 2019. - 576 p.: ill. - ISBN.

https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=476811&idb=0. 5 copies.

6. Forensic medical examination of skeletonized remains: a textbook / D.V. Sundukov, E.H. Barinov, A.V. Smirnov. – Electronic text data. - M.: RUDN University, 2018. - 46 p.: ill. - ISBN 978-5-209-08805-9. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=468678&idb=0. 84 copies.
7. Forensic medicine: a short course: a textbook / E.H. Barinov, P.O. Romodanovsky, D.V. Sundukov, O.L. Romanova. - Electronic text data. - M.: RUDN University, 2017. - 288 p.: ill. - ISBN 978-5-209-07480-9. https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464010&idb=0. 75 copies.

Resources of the Internet information and telecommunication network:

1. RUDN University ELS and third-party ELS, to which RUDN students have access on the basis of concluded contracts:

- Electronic library system of RUDN – ELS RUDN <http://mega.rudn.ru/MegaPro/Web>
- ELS «University Library online» <http://www.biblioclub.ru>
- ELS «Yurayt» <http://www.biblio-online.ru>
- ELS «Student Consultant» www.studentlibrary.ru
- ELS «Znaniy» <https://znaniy.ru/>

2. Databases and search engines:

- Sage <https://journals.sagepub.com/>
- Springer Nature Link <https://link.springer.com/>
- Wiley Journal Database <https://onlinelibrary.wiley.com/>
- Научометрическая база данных Lens.org <https://www.lens.org>

Educational and methodological materials for students' independent work in mastering the discipline/module:*

1. A course of lectures on the discipline «Forensic medicine».

* - all educational and methodological materials for students' independent work are placed in accordance with the current procedure on the discipline page **in the TUIS!**

DEVELOPERS:

Teaching assistant,
Department of Forensic
Medicine

position, department

Bashirova A.R.

signature

Name

Head of the Department:

of the Department
of Forensic Medicine

Department

Sundukov D.V.

signature

Name

HEAD OF THE HIGHER EDUCATION PROGRAM:

**Deputy Director of Institute of
Medicine for the field of studies
Dentistry**

Position, department

signature

S.N. Razumova

Name