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**Federal State Autonomous Educational Institution of Higher Education  
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA  
RUDN University**

**Medical Institute**

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

**COURSE SYLLABUS**

**FORENSIC MEDICINE**

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course title

**Recommended by the Didactic Council for the Education Field of:**

**31.05.03 Dentistry**

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field of studies / speciality code and title

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

**Dentistry**

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higher education programme profile/specialisation title

## 1. AIMS AND OBJECTIVES

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 10<sup>th</sup> semester of the 5th year. The discipline is implemented by the Department of Forensic Medicine. The discipline consists of 7 sections and 18 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. LEARNING OUTCOMES

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

*Table 2.1. The list of competences that students acquire when mastering the course (Learning Outcomes)*

<b>Competence code</b>	<b>Competence</b>	<b>Competence indicators</b>
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 3.1. The list of Higher Education Program components that contribute to expected learning outcomes:*

<b>Competence code</b>	<b>Competence</b>	<b>Previous Disciplines*</b>	<b>Subsequent Disciplines*</b>
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; Human Anatomy – Anatomy of the head and neck; Pathological anatomy -	

<b>Competence code</b>	<b>Competence</b>	<b>Previous Disciplines*</b>	<b>Subsequent Disciplines*</b>
		Pathological anatomy of the head and neck; Ophthalmology; Topographic anatomy and operative surgery of the head and neck;	
PC-11	Being able to implement the quality management principles in their professional activity	Public health and healthcare; Disaster Medicine;	

\* - filled in according to the competence matrix and SC EP HE

\*\* - elective disciplines/practices

#### **4. COURSE WORKLOAD AND LEARNING ACTIVITIES**

Course workload is 2 credit units.

*Table 4.1. Types of academic activities during the period of mastering of the HE program (for FULL-TIME LEARNING)*

<b>Types of academic activities</b>	<b>Total hours</b>		<b>Semesters</b>
			<b>10</b>
<i>Contact work, hours</i>	<i>51</i>		<i>51</i>
<i>Lectures (L)</i>	<i>0</i>		<i>0</i>
<i>Lab work (LW)</i>	<i>51</i>		<i>51</i>
<i>Seminars (S)</i>	<i>0</i>		<i>0</i>
<i>Self-study, hours</i>	<i>18</i>		<i>18</i>
<i>Control (exam/test with assessment), hours</i>	<i>3</i>		<i>3</i>
<b>Total hours</b>	<b>hours</b>	<i>72</i>	<i>72</i>
	<b>credit units</b>	<i>2</i>	<i>2</i>

## 5. COURSE CONTENTS

Table 5.1. Course sections contents and types of academic activities

*Table 5.1. Course sections contents according to types of academic activity*

<b>№</b>	<b>Course modules</b>	<b>Contents of the module (topics)</b>	<b>Types of academic activities</b>
Section 1.	Procedural and organizational issues of forensic medical examination. Inspection of the crime scene and examination of the corpse at the place of its discovery. Forensic thanatology (general and particular).	Topic 1.1. General overview of the structure and organization of the forensic medical service in the Russian Federation, the legal regulation of the forensic medical examination, the limits of its competence. Objects of forensic medical examination, methods of their expert research, diagnostic capabilities. Topic 1.2. Procedural and organizational forms of inspection of a corpse at the place of its discovery and participation of a medical specialist. The specifics of the inspection depending on the type, manner and cause of death. Medical and legal aspects of the statement of death, the establishment of the fact of the occurrence of human death. Early and late cadaveric changes. Artificial preservation of the corpse. The concept of the cause of death. Competing causes of death. Type of death, manners of violent death: murder, suicide, accident. Topic 1.3. Establishing of the time of death.	LW
Section 2.	Forensic medical examination of a corpse (forensic autopsy). Forensic medical examination of sudden death	Topic 2.1. Reasons for forensic medical expertise (examination) of the corpse. Forensic medical documentation. Principles of formulating a forensic medical diagnosis and expert conclusions (expert opinion) based on autopsy findings. Registration of a medical death certificate (ICD). Topic 2.2. Forensic medical examination of sudden death.	LW
Section 3.	General forensic traumatology (thanatogenesis of death in various types of trauma), blunt trauma, fall from heights, vehicle trauma. Damages to	Topic 3.1. The concept of injuries (bruises, abrasions, hematomas, wounds, fractures, etc.). Their mechanisms, morphological properties and distinctive features. Topic 3.2. Vehicle injury, damage to health and death from physical factors.	LW

	the maxillofacial region in various types of trauma	Topic 3.3. Features of thanatogenesis according to different external factors. Topic 3.4. Damages to the maxillofacial region due to these types of trauma	
Section 4.	Laboratory research methods in forensic medicine.	Topic 4.1. General overview of forensic biology Topic 4.2. Examination of the evidence of biological origin (blood, semen, saliva, hair).	LW
Section 5.	Forensic medical examination of injuries due to sharp objects and gunshot injuries	Topic 5.1. Mechanisms of formation, morphological properties and specific features of injuries due to sharp objects and gunshot injuries Topic 5.2. Damages to the maxillofacial region due to these types of trauma	LW
Section 6.	Forensic personal identification by dentition and related issues	Topic 6.1. Personal identification in forensics, current problems and trends Topic 6.2. Estimating sex and age by dentition. The identification of victims in a mass disaster.	LW
Section 7.	Forensic medical examination of living persons. Methods of estimation of the loss of general and professional working capacity. Medical professionals' legal responsibility for adverse effects resulting from medical care.	Topic 7.1. Forensic medical examination of victims, accused persons, etc. Qualifying signs of severe, moderate and light damage to health. Beatings, torment, torture. Estimating of the loss of general and professional working capacity. Forensic medical documentation. Topic 7.2. Forensic examination in cases of sexual crimes, forensic medical examination of the former pregnancy, childbirth. Topic 7.3. Forensic medical examination in criminal and civil cases of professional violations of health care specialists. Professional crimes of health care specialists. Board and complex forensic medical examinations.	LW

\* - 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*

<b>Classroom for Academic Activity Type</b>	<b>Classroom equipment</b>	<b>Specialized classroom/lab equipment, Software and studying materials (if necessary)</b>
Laboratory	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; mannequin for simulation of critical conditions; medical instruments; dummies, anatomical specimens; dry bones; microscopic slides; microscopes Микмед-1 вар. 1; Lenovo ThinkBook 15 G2 ITL 20VE00G6RU laptop; projector 3D ViewSonic PJD5234; multimedia presentations; educational copies of forensic reports, 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 (1), a blackboard (screen) and multimedia presentation equipment.	

<b>Classroom for Academic Activity Type</b>	<b>Classroom equipment</b>	<b>Specialized classroom/lab equipment, Software and studying materials (if necessary)</b>
Classroom	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; mannequin for simulation of critical conditions; medical instruments; dummies, anatomical specimens; dry bones; microscopic slides; microscopes Микмед-1 вар. 1; Lenovo ThinkBook 15 G2 ITL 20VE00G6RU laptop; projector 3D ViewSonic PJD5234; multimedia presentations; educational copies of forensic reports, materials of criminal and civil cases.
Classroom for 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, ASUS VivoBook M533IA-BN289T laptop, medical instruments, mannequin for simulation of critical conditions

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



## 7. RECOMMENDED SOURCES FOR COURSE STUDIES

### a) Main sources

1. Forensic medical examination in civil proceedings in "medical" cases : 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, 2023. - 201 p. : ill. - ISBN 978-5-209-11764-3. 10 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Rudn\\_FindDoc&id=515835&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=515835&idb=0)
2. Forensic medicine: textbook / Yu.I. Pigolkin, M.A. Kislov, E.M. Kildyushov, G.V. Zolotenkova; edited by Yu.I. Pigolkin. - 4th ed. , reprint. and additional ; Electronic text data. - Moscow : GEOTAR-Media, 2022. - 592 p. - ISBN 978-5-9704-6313-0.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=508294&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=508294&idb=0)
3. Methods of radiation diagnostics during the examination of living persons : textbook / E.H. Barinov, A.R. Bashirova, V.K. Dadabaev [et al.]; edited by E.H. Barinov, D.V. Sundukov. - Electronic text data . - Moscow : RUDN, 2023. - 165 p. : ill. - ISBN 978-5-209-11430-7. 54 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Rudn\\_FindDoc&id=510032&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=510032&idb=0)
4. The validity of the conclusion of a forensic medical examination in "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, 2022. - 155 p. - ISBN 978-5-209-11019-4. 45 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=507062&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=507062&idb=0)
5. Forensic medical examination of sudden death: an educational and methodical manual / D.V. Sundukov, A.M. Golubev, A.R. Bashirova, A.V. Smirnov. - Electronic text data. - Moscow : RUDN, 2021. - 73 p. : ill. - ISBN 978-5-209-11242-6. 68 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=505899&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=505899&idb=0)
6. Forensic medical examination of living persons : textbook / D.V. Sundukov, E.H. Barinov, P.O. Romodanovsky [et al.]. - Electronic text data. - Moscow : RUDN, 2021. - 121 p. : ill. - ISBN 978-5-209-10211-3. 3 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=496180&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=496180&idb=0)
7. 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, 2021. - 107 p. : ill. - ISBN 978-5-209-10455-1. 62 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Rudn\\_FindDoc&id=499795&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=499795&idb=0)

### 6) Additional sources

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, 2020. - 88 p. - ISBN 978-5-209-09665-8. 5 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=488032&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=488032&idb=0)

2. Forensic medical examination in case of disputed sexual conditions and sexual crimes : an educational and methodological manual / E.H. Barinov, P.O. Romodanovsky, E.N. Cherkalina [et al.]. - Electronic text data. - Moscow: RUDN, 2020. - 67 p. : ill. - ISBN 978-5-209-10378-3. 3 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=496453&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=496453&idb=0)
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, 2019. - 104 p. : ill. - ISBN 978-5-209-08875-2. 73 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=476541&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=476541&idb=0)
4. Identification of a person by the peculiarities 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, 2019. - 124 p. : ill. - ISBN 978-5-209-09407-4. 3 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=481405&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=481405&idb=0)
5. Forensic medicine in diagrams and drawings: a textbook / P.O. Romodanovsky, E.H. Barinov. - Electronic text data. - M. : Prospect, 2019. - 576 p. : ill. - ISBN 978-5-392-29340-7. 5 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=476811&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=476811&idb=0)
6. Forensic medical examination of skeletal remains: an educational and methodological manual / D.V. Sundukov, E.H. Barinov, A.V. Smirnov. - Electronic text data. - M. : RUDN, 2018. - 46 p. : ill. - ISBN 978-5-209-08805-9. 71 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Rudn\\_FindDoc&id=468678&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=468678&idb=0)
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, 2017. - 288 p. : ill. - ISBN 978-5-209-07480-9. 60 copies.  
[https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link\\_FindDoc&id=464010&idb=0](https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=464010&idb=0)

### **Internet sources:**

1. Electronic libraries with access for RUDN students:
  - Electronic library system of RUDN – ELS RUDN  
<http://lib.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](http://www.studentlibrary.ru)
  - ELS "Lan" <http://e.lanbook.com/>
  - ELS "Trinity Bridge"
2. Databases and search engines:
  - Electronic fund of legal and regulatory and technical documentation  
<http://docs.cntd.ru/>
  - Yandex search engine <https://www.yandex.ru/>
  - Google search engine <https://www.google.ru/>
  - SCOPUS database <http://www.elsevierscience.ru/products/scopus/>

## 8. EVALUATION TOOLKIT AND SCORE RATING SYSTEM FOR ASSESSMENT OF LEARNING OUTCOMES

Evaluation toolkit and score rating system for assessment of learning outcomes of the course «Forensic medicine» can be found in the Appendix to this document.

### DEVELOPERS:

**Head of the Department  
of Forensic Medicine**

Position, Educational Department



signature

Sundukov D.V.

Name

**Teaching assistant,  
Department of Forensic Medicine**

Position, Educational Department



signature

Bashirova A.R.

Name

### HEAD OF THE DEPARTMENT:

**Head of the Department  
of Forensic Medicine**

Educational Department



signature

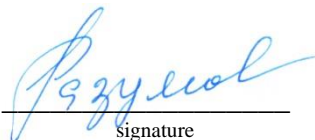
Sundukov D.V.

Name

### HEAD OF THE HIGHER EDUCATION PROGRAM:

**Deputy Director of MI,  
specialty: Dentistry**

Position, Educational Department



signature

Razumova S.N.

Name