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**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 goal of the course is to build up student's 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

Mastering the course (module) «Forensic medicine» is aimed at the development of the following competences /competences in part: GPC-9, GPC-11.

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 PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
PC-9	Being able to assess morpho-functional, physiological	Histology, embryology, cytology - Histology of the mouth cavity;	

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
	conditions and pathological processes in the human body to solve professional tasks	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 - 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;	

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

4. 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			
Contact academic hours		51	51			
including:						
Lectures (LC)						
Lab work (LW)		51	51			
Seminars (workshops/tutorials) (S)		-	-			
Self-studies		18	18			
Evaluation and assessment (exam/ passing/failing grade)		3	3			
Course workload	academic hours	72	72			
	credits	2	2			

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
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
Forensic medical examination of a corpse (forensic autopsy).	Topic 2.1. Reasons for forensic medical expertise (examination) of the corpse.	LW

Forensic medical examination of sudden death	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.	
General forensic traumatology (thanatogenesis of death in various types of trauma), blunt trauma, fall from heights, vehicle trauma. Damages to the maxillofacial region in various types of trauma	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. 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	LW
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
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
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
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

* - to be filled in only for **full** -time training: *LC* - lectures; *LW* - lab 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; 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 lab	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.	
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; 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

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		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. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. 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.
2. 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
3. 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
4. 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
5. 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

6. 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

7. 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

8. 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

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, 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

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

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

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

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

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

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

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
- 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 /](http://docs.cntd.ru/)
- Yandex search engine <https://www.yandex.ru/>
- Google search engine [https://www.google.ru /](https://www.google.ru/)
- SCOPUS database <http://www.elsevierscience.ru/products/scopus/>

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

Evaluation materials and point-rating system* for assessing the level of competence formation (GPC-9, GPC-11) based on the results of mastering the discipline «Forensic medicine» are presented in the Appendix to this Work Program of the discipline.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

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of Forensic Medicine

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position, department

signature

name and surname

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