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

Institute of Medicine

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

COURSE SYLLABUS

FORENSIC MEDICINE

course title

Recommended by Didactic Council for the Educational Field of:

31.05.03 Dentistry

field of studies / speciality code and title

Learning outcomes correspond to the Higher Education Program (HEP):

Dentistry

higher education programme profile/specialisation title

2022-2023

1. COURSE GOAL(s)

The goal of the course «**Forensic medicine**» is to equip students with the knowledge necessary for building up professional competences based on knowledge of theoretical and practical issues of forensic medicine in order to perform the duties of the medical examiner at the request of the police, judicial authorities and Russian healthcare system professionals, 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: **General Professional Competences: (GPC)-9**

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-9	Able to assess morphofunctional conditions and pathological processes in the human body for professional needs	GPC-9.1. Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems
		GPC-9.2. Can: evaluate the basic morphofunctional data, physiological conditions and pathological processes in the human body
		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*
GPC-9	Able to assess morphofunctional	Human anatomy Topographic anatomy	Maxillofacial surgery

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
	conditions and pathological processes in the human body for professional needs		

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			
<i>Contact academic hours</i>	54	54			
including					
Lectures (LC)					
Lab work (LW)					
Seminars (workshops/tutorials) (S)	54	54			
<i>Self-studies</i>	18	18			
<i>Evaluation and assessment (exam/passing/failing grade)</i>					
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
Module 1 Procedural and institutional issues of forensic medical examination. Scene of crime examination, examination of a corpse on the accident scene Forensic thanatology (general and particular)	1. 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. 2. Objects and methods of their expert examination, diagnostic capabilities. 3. Procedural and organizational forms of examination of a corpse at the crimescene, participation of a doctor, the specifics of the examination depending on the manner, type and kind of death. Medical and legal aspects of the statement of death, the establishment of the fact of the	S

	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, manner of violent death: murder, suicide, accident. 4. Estimating the time of death.	
Module 2. Forensic medical examination of a corpse (the autopsy). Forensic medical diagnostics of sudden death	1. Reasons for forensic medical examination of the corpse. Documentation. Principles of writing out a forensic medical diagnosis and conclusion during a forensic medical examination of a corpse. The design of a medical death certificate (ICD). 2. Estimating the time of death.	S
Module 3. General issues of forensic traumatology (thanatogenesis of death due to various types of traumatic effects), damages caused by blunt solid objects, falling from a height, transport injury. Features of damage of maxillofacial region due to various types of traumatic effects	1. The types doctrine of injuries: (bruises, abrasions, hematomas, wounds, fractures, etc.). 2. Mechanisms of formation, morphological properties and distinctive features of injuries. 3. Vehicle injury. 4. Features of thanatogenesis due to various types of external influence. 5. Features of damage of the maxillofacial region due to these types of trauma.	S
Module 4. Laboratory research methods in forensic medicine. Identification of a person by dental status.	1. Forensic medical examination of the evidences of biological origin (blood, semen, saliva, hair). 2. Determination of gender and age by teeth.	S
Module 5. Forensic medical examination of death due to sharp items and gunshot injuries	1. Mechanisms of formation, morphological properties and distinctive features of damages. 2. Features of damage to the maxillofacial region due to these types of trauma.	S
Module 6. Personal identification	1. Methods of personal human identification by bones and DNA 2. Identification of the person in cases of emergency situations (disasters).	S
Module 7. Forensic medical examination of victims, accused and	1. Forensic medical examination of victims, accused and other people. Qualifying signs of serious, moderate and light harm to health. Methods of	S

<p>others. Determination of the loss of general and professional working capacity. Forensic medical examination of professional offenses of healthcare professionals.</p>	<p>causing harm to health (beatings, torment, torture). Determination of the loss of general and professional working capacity. Forensic medical documentation.</p> <p>2. Forensic medical examination in cases of sexual crimes, former pregnancy, childbirth.</p> <p>3. Forensic medical examination in criminal and civil cases that deal with professional offenses of healthcare professionals. Professional and official crimes of healthcare professionals.</p> <p>4. Board and complex forensic medical examinations.</p>	
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6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

<p>Type of academic activities</p>	<p>Classroom equipment</p>	<p>Specialised educational / laboratory equipment, software, and materials for course study (if necessary)</p>
<p>Seminar</p>	<p>Classroom for seminars, group and individual consultations, monitoring and mid-term assessment, equipped with a set of specialized furniture and multimedia presentation equipment.</p>	<p>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.</p>

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, ASUS VivoBook M533IA-BN289T laptop, medical instruments, mannequin for simulation of critical conditions

7. RESOURCES RECOMMENDED FOR COURSE STUDY

a) Main readings:

1. Forensic medical examination of live 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.

2. Forensic medical examination in cases of death from exposure to technical and atmospheric electricity: 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 - 75 copies.

3. Criminal liability for crimes related to the violation of professional duty by healthcare professionals: 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.

4. Forensic medical examination in controversial 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.

5. Forensic medical examinations in civil proceedings: textbook / E.H. Barinov, D.V. Sundukov, A.V. Kovalev, O.L. Romanova. - Electronic text data. - Moscow : RUDN, 2019. - 104 p. : ill. - ISBN 978-5-209-08875-2 - 73 copies.

6. Forensic medical examination of mechanical asphyxia: an educational and methodical manual for students, clinical residents and postgraduates / D.V. Sundukov, E.H. Barinov, D.V. Bogomolov [et al.]. - Electronic text data. - Moscow : RUDN, 2019. - 82 p. : ill. - ISBN 978-5-209-09592-7.

7. Forensic medical examination of skeletal remains: an educational and methodical manual / D.V. Sundukov, E.H. Barinov, A.V. Smirnov. - Electronic text data. - Moscow : RUDN, 2018. - 46 p. : ill. - ISBN 978-5-209-08805-9 - 84 copies.

8. Forensic medical examination in case of carbon monoxide poisoning : an educational and methodological manual / D.V. Sundukov, E.H. Barinov, O.L.

Romanova. - Electronic text data. - Moscow: RUDN, 2018. - 46 p. - ISBN 978-5-209-08632-1.

9. Forensic medical examination of poisoning : an educational and methodical manual / D.V. Sundukov, E.H. Barinov, O.L. Romanova. - Electronic text data. - Moscow: RUDN, 2017. - 58 p. - ISBN 978-5-209-07965-1 - 10 copies.

10. The history of forensic medicine in foreign countries: an educational and methodological manual / D.V. Sundukov, E.H. Barinov, A.V. Smirnov. - Electronic text data. - Moscow: RUDN, 2017. - 62 p. - ISBN 978-5-209-07964-4 - 10 copies.

11. Forensic medicine: a short course: textbook / E.H. Barinov, P.O. Romodanovsky, D.V. Sundukov, O.L. Romanova. - Electronic text data. - Moscow : RUDN, 2017. - 288 p. : ill. - ISBN 978-5-209-07480-9 - 75 copies.

12. Forensic medical examination of a corpse and forensic medical documentation: a textbook for students of medical universities / E.H. Barinov, D.V. Sundukov, P.O. Romodanovsky. - Electronic text data. - Moscow : RUDN, 2015. - 77 p. - ISBN 978-5-209-05768-0 - 5 copies.

13. Forensic medicine : textbook / edited by Yu.I. Pigolkin. - 3rd ed., reprint. and additional - M. : GEOTAR-Media, 2015. - 496 p. - ISBN 978-5-9704-3340-9

6) Additional readings

1. Forensic osteology : educational and methodical manual: in 2 parts. Part 2 / D.V. Sundukov, E.H. Barinov, A.V. Smirnov. - Electronic text data. - Moscow : RUDN, 2020. - 65 p. : ill. - ISBN 978-5-209-10384-4. - ISBN 978-5-209-09590-3 - 53 copies.

2. Forensic medicine in diagrams and drawings: textbook / P.O. Romodanovsky, E.H. Barinov. - Electronic text data. - Moscow : Prospect, 2019. - 576 p. : ill. - ISBN 978-5-392-29340-7 - 5 copies.

3. Identification of a person by the features of the structure of teeth and dentition: 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.

4. Forensic osteology: educational and methodical manual : in 2 parts. Part 1 / D.V. Sundukov, E.H. Barinov, A.V. Smirnov. - Electronic text data. - Moscow : RUDN, 2019. - 64 p. : ill. - ISBN 978-5-209-09591-0. - ISBN 978-5-209-09590-3 : 93.49. - 87 copies.

5. Forensic medicine: a textbook for students of medical faculties / E.H. Barinov, P.O. Romodanovsky, D.V. Sundukov. - Electronic text data. - Moscow: RUDN, 2015. - 467 p. - ISBN 978-5-209-05767-3 - 5 copies

6. Forensic medicine : textbook / P.O. Romodanovsky, E.H. Barinov. - M. : RUDN, 2012. - 239 p. : ill. - ISBN 978-5-209-03628-9 - 12 copies

7. Forensic medicine : textbook / Edited by V.N. Kryukov. - 5th ed., reprint. and additional - M. : Medicine, 2006. - 448 p. : ill. - (Educational literature for students of medical universities). - ISBN 5-225-04233-3 - 45 copies.

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 "Doe" <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/>

*Training toolkit for self- studies to master the course *:*

1. The set of lectures on the course “Forensic Medicine”
2. The laboratory workshop (if any).on the course “Forensic Medicine”
3. The guidelines for writing a course paper / project (if any) on the course “Forensic Medicine”.
4.

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

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

The assessment toolkit and the grading system* to evaluate the competences formation level (GPC-9) upon the course study completion are specified in the Appendix to the course syllabus.

* 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:

Head of the Department of
Forensic Medicine

D.V. Sundukov
