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

AUTOPSY COURSE
course title

Recommended by the Didactic Council for the Education Field of:

31.05.01 GENERAL MEDICINE
field of studies / speciality code and title

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

GENERAL MEDICINE
higher education programme profile/specialisation title

2026

1. COURSE GOAL(s)

The course "Autopsy course" is included in the program of the specialty "General Medicine" in the direction of the 31.05.01 "General Medicine" and is studied in the 12th semester of the 6th course. The discipline is implemented by the Department of Pathological Anatomy. The discipline consists of 4 sections and 12 topics and is aimed at studying the principles of intravital and posthumous diagnosis of diseases of organs and systems.

The purpose of mastering the course for students is to gain knowledge about the structure of the pathological service, teach students the rules for formulating final clinical and pathological diagnoses, the principles of their comparison, in accordance with the recommendations of WHO experts set forth in the International Statistical Classification of Diseases and Health-Related Problems of the Tenth Revision (ICD-10) and the use of the knowledge gained in the work of a general practitioner. Obtaining knowledge about the possibilities of intravital morphological diagnostics and acquiring skills in using pathological conclusions in medical and diagnostic work.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the discipline "Autopsy course" is aimed at developing the following competencies (parts of competencies) in students: GPC-5, PC-2

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

Competence code	**Competence descriptor**	**Competence formation indicators** (within this course)
GPC-5	Able to assess morphofunctional, physiological states and pathological processes in the human body to solve professional problems	GPC-5.3 Able to determine morphofunctional, physiological states and pathological processes in the human body based on knowledge of the structure of the human body, the functioning of organs and systems in normal and pathological conditions
PC-2	Capable of examining a patient to establish a diagnosis	PC-2.7. Able to carry out differential diagnosis with other diseases/conditions, including emergencies, and also establish a diagnosis taking into account the current international statistical classification of diseases and health problems (ICD).

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***

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GPC-5	Able to assess morphofunctional, physiological states and pathological processes in the human body to solve professional problems	Biochemistry; Normal physiology; General Surgery; Obstetrics and gynecology; Biology; Microbiology, virology; Oncology, radiation therapy; Pathophysiology, clinical pathophysiology; Molecular genetic methods; Methods of microbiological diagnosis; Propaedeutics of internal diseases; Immunology; Pathological anatomy, clinical pathology anatomy; Radiation diagnostics; Medical Elementology; Pathophysiology; Anesthesiology, intensive care; Ophthalmology; Methods of cell biology and histology; Chemistry; Pharmacology; Bioorganic chemistry; Anatomy; Histology, embryology, cytology; Topographic anatomy and operative surgery; Forensic medicine; Medical forensics; Otorhinolaryngology; Pediatrics;	
PC-2	Capable of examining a patient to establish a diagnosis	Surgical profile practice: assistant surgeon; Therapeutic profile assistant: assistant therapist; General medical practice: assistant doctor of outpatient clinic;	

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
		Obstetric-gynecological profile practice: Assistant doctor of obstetrician; Practice of obstetric-gynecological profile: assistant doctor of gynecologist; Practice of general medical profile: assistant doctor of pediatrician; General surgery; Dermatovenerology; Neurology, medical genetics, neurosurgery; Ophthalmology; Faculty surgery; Occupational Diseases; Hospital Therapy; Polyclinic Therapy; Hospital Surgery, Pediatric Surgery; Pediatrics; Obstetrics and Gynecology; Anesthesiology, Reanimation, Intensive Care; Oncology, Radiation Therapy; Otorhinolaryngology; Traumatology, orthopedics; Occupational Therapy; General Medical Skills; Propaedeutics of Internal Medicine; Urology; Infectious Diseases; Psychiatry, Medical Psychiatry, Medical Psychology; Pathophysiology; Clinical Dentistry; Topical Issues of Neonatology**; Topical Issues of Neonatology**; Cardiology in Quests; Medical Enzymology**; Molecular and Genetic Methods; Microbiologic Diagnostic Methods; Microbiology, Virology; Immunology;	

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
		Evidence-Based Medicine; Molecular Genetics in Practical Biology and Medicine**; Radiologic Diagnostics; Pathophysiology, Clinical Pathophysiology; Pathologic Anatomy, Clinical Pathologic Anatomy; Medical Elementology.	

* 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 1 credit (36 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
Classroom learning academic hours		*16*
including:		
Lectures (**LC**)		
Laboratory works (**LW**)		16
Seminars (workshops/tutorials) (**S**)		0
Self-studies		*17*
Evaluation and assessment (exam/passing/failing grade)		*3*
Course workload	academic hours	**36**
	credits	**1**

5. CONTENT OF THE DISCIPLINE

Table 5.1. Content of the discipline (module) by type of academic activity

Course module title	Course module contents (topics)	Academic activities types
Module 1 Organization of the work of pathological anatomical service.	**1.1** Introduction to the specialty of pathological anatomy. History of the development of the specialty of pathology. Main stages in the historical development of pathological anatomy. Morphological foundations of pathological processes and diseases.	**Lab**
	1.2 Specific aspects and organizational forms of pathoanatomical practice in healthcare institutions. Equipping hospital pathology departments. Regulatory and legal framework: legal aspects of the work of a pathologist.	**Lab**
	1.3 Medical ethics and deontology. Particular aspects of ethics and deontology in pathological anatomy. Observance of medical confidentiality. Particular aspects of communication with the relatives of the deceased.	**Lab**
Module 2 Rules for conducting autopsy examinations.	**2.1** Rules of conduct in the autopsy room, doctor's clothes. Clothing requirements. Safety procedures in the autopsy room. Compliance with sanitary and anti-epidemic regulations in the autopsy suite and biopsy unit.	**Lab**
	2.2 Protective clothing requirements for physicians in cases of suspected infectious disease. Types of protective clothing worn by medical personnel when working with infectious patients and in cases of especially dangerous infections.	**Lab**
	2.3 Autopsy procedure. External examination of the corpse; assessment of the musculoskeletal system. Opening of the cranial cavity and examination of its contents; examination of the hypophysis. Opening of the thoracic cavity; examination of the thoracic organs; performance of hydrostatic and air embolism tests. Opening of the abdominal cavity; examination of the digestive organs; examination of the retroperitoneal space.	**Lab**
Module 3 Rules for conducting biopsy examinations.	**3.1** The clinician’s work with biopsy and surgical specimens. Preparation of referral forms for histological examination. Algorithm of actions for the clinician when collecting, fixing, labeling, storing, and transporting biopsy and surgical specimens to the histology laboratory.	**Lab**

Course module title	Course module contents (topics)	Academic activities types
	Recommendations on the procedure for gross examination, sectioning, and fixation of biopsy and surgical specimens in pathomorphology laboratories. Rules for preparing accompanying documentation for the histology laboratory.	
	3.2 Receipt of surgical specimens in pathology laboratories/departments. Rules for sectioning and processing specimens in the laboratory. Intraoperative biopsies. Review of biopsy specimens.	**Lab**
Module 4 Principles for preparing and correlating the final clinical and pathoanatomical diagnoses.	**4.1** Principles for formulating the pathoanatomical conclusion Acquisition of the skill of distinguishing among the following concepts: primary disease, as well as competing, combined, and background diseases. Complications of the primary disease. Comorbid conditions.	**Lab**
	4.2 Preparation of the medical death certificate. Rules and specific requirements for completing the medical death certificate. Categories of diagnostic discrepancies.	**Lab**
	4.3 Diagnostic errors. Objective and subjective causes of diagnostic errors.	**Lab**

* - 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

Classroom for Academic Activity Type	Classroom equipment	Specialized educational/laboratory equipment, software and materials for the development of the course. (if necessary)
Lab-work	Classroom for laboratory classes, individual consultations, current assessment, and interim assessment, equipped with a set of specialized furniture and equipment.	1.Museum of macro-preparations on diverse types of human pathology. 2. A set of micro-preparations for various types of pathology. 3. Binocular microscopes for studying micro-preparations. 4. Tables for various types of pathology. 5. Computers and multimedia projectors. 6. Discs with multimedia

Classroom for Academic Activity Type	Classroom equipment	Specialized educational/laboratory equipment, software and materials for the development of the course. (if necessary)
		presentations of the lecture material and microphotographs for each laboratory lesson.
Seminar	Classroom for conducting seminar-type classes, group and individual consultations, ongoing monitoring and interim certification, equipped with a set of specialized furniture and multimedia presentation equipment.	Mini PC Dell Optiplex 3080 Micro, TV LG (49UK6200). Software: Microsoft products (OS, office suite, including Office 365).
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to electronic information educational system.	1. Binocular microscopes for studying micro-preparations. 2. Tables for various types of pathology. 3. Computers and multimedia projectors.

*-a room for students' independent study must be specified as a **MANDATORY REQUIREMENT!**

7. RECOMMENDED SOURSES FOR COURSE STUDIES

Main readings:

1. Kumar, Vinay, et al. Robbins & Kumar Basic Pathology. 11th ed., illustrated, Elsevier, 2022, 840p.- ISBN 978-0-323-79018-5
2. Pathological anatomy [Electronic resource]: Textbook / A.I. Strukov, V.V. Serov; Edited by V. S. Paukov. - 6th ed., reprint. and additional - M.: GEOTAR-Media, 2023. - 880 p.: ill. https://www.studentlibrary.ru/book/ISBN9785970461396.html
3. Temporary guidelines: Study of deceased with suspected coronavirus infection (COVID-19), 2020. http://patolog.ru/sites/default/files/000_finish_finish_mr_covid19_rcsme_30_04_2020.pdf

Additional readings:

1. Methodological recommendations for the preparation of final clinical and pathoanatomical/forensic diagnoses - Russian Society of Pathologists, 2019. http://www.patolog.ru/sites/default/files/metod.rekom._mz_rf_sopostavl.ds_0.pdf
2. O.V.Zairatiants, E.Y.Vasilyeva, L.M.Mikhaleva, A.S.Olenev, S.N.Cherkasov, A.L.Chernyaev, N.A.Shamalov, A.V.Shpektor. Methodological recommendations No. 45: Rules for the formulation of pathoanatomical diagnosis, selection and coding causes of death according to ICD-10., 2019. https://cloud.mail.ru/public/m6UC/9cz2sXeTc
3. Basic principles of the design of the final clinical and pathoanatomical diagnoses. Gribunov Yu.P., Rogov K.A., Shestakova I.N., Ivina A.A. M.: Publishing House of RUDN, 2015.- 19 p.

4. Guide on pathological anatomy. Textbook for students of medical, pediatric and preventive medicine faculties. V.S.Paukov, Yu.A.Kirillov, A.V.Berestova, T.P.Nekrasova. M: MIA, 2018.
5. Methodological guide: Preparation of the descriptive part of the autopsy protocol, K.A. Rogov, V.E. Rodionov, RUDN Publishing House, 2020.
6. Test tasks on pathological anatomy: studies. stipend. In 3 books; ed. V.S.Paukova. M.: Practical medicine, 2015.
7. Methodological guide: Rules for the formulation and comparison of final, clinical and pathoanatomical diagnoses. D.R. Familia Frias, A.A. Ivina, Publishing House of RUDN, 2022.
8. WHO temporary guidelines recommendations: Infection prevention and control for the safe handling of corpses in the context of covid-19. http://patolog.ru/sites/default/files/rabota_trupom_pogrebenie_rpn_vrem_rekom_voz.pdf
9. Order of the Ministry of Health of the Russian Federation No. 179 dated 03/24/2016 "On the rules for conducting pathological examinations". http://www.patolog.ru/sites/default/files/prikaz_mz_rf179n.pdf
10. Ministry of Health of the Russian Federation -Order dated June 6, 2013 N 354n "On the procedure for conducting pathological anatomical autopsies." https://normativ.kontur.ru/document?moduleId=1&documentId=223037

Internet-(based) sources:

1. RUDN University EBS and third-party EBS that university students have access to on the basis of concluded contracts:
   - -RUDN University Electronic Library System-RUDN University Electronic Library System http://lib.rudn.ru/MegaPro/Web
   - EBS "University Library online" http://www.biblioclub.ru
   - EBS Urite http://www.biblio-online.ru
   - EBS "Student's consultant" www.studentlibrary.ru
   - EBS "Lan" http://e.lanbook.com/
   - EBS "Troitsky Bridge"
   - Website of the Russian Society of Pathologists: http://patolog.ru

2. Databases and search engines:
   - electronic fund of legal and regulatory and technical documentation http://docs.cntd.ru/
   - Yandex search engine https://www.yandex.ruwww/
   - Google search engine https://www.google.ru/
   - SCOPUS abstract database http://www.elsevierscience.ru/products/scopuswww/

*Learning toolkits for self-studies during the development of the discipline *:*

1. Course of lectures on the discipline "Autopsy course".
2. Laboratory practice on the discipline "Autopsy course"
3. Sapozhnikov A. G., Dorosevich A. E. Histological and microscopic techniques: A Guide. - Smolensk: SAU, 2000. - 476s.

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

8. EVALUATION TOOLKIT AND SCORE-RATING SYSTEM FOR ASSESSING THE LEVEL OF FORMATION OF COMPETENCES IN THE COURSE

Evaluation Toolkit (ET) and a score-rating system (SRS)* for assessing the level of competence formation (GPC-5, PC-2) based on the results of mastering the discipline "Autopsy Course" are presented in the Appendix to this Working Program of the discipline.

* - evaluation material and score-rating system are formed on the basis of the requirements of the relevant local regulatory act of the RUDN University.

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