

Документ подписан простой электронной подписью
Информация о владельце:
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Должность: Ректор
Дата подписания: 28.05.2026 13:00:45
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

Professional Diseases

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 discipline "Professional diseases" is included in the program of the specialty 31.05.01 "Medicine" and is studied in the 9th semester of 5 the course. The discipline is implemented by the Department of Hospital Therapy with courses in endocrinology, Hematology and clinical laboratory diagnostics. The discipline consists of 4 sections and 4 topics and is aimed at studying the etiology, pathogenesis, clinic, differential diagnosis, treatment of diseases that develop when exposed to occupational hazards, measures to ensure favorable and safe working conditions, industrial ecology in order to prevent the development of occupational diseases.

The goal of the course to acquire basic theoretical knowledge in professional pathology and practical skills in collecting anamnesis, examination, primary diagnosis, differential diagnosis, treatment and preventive medical examination of patients.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "**Professional diseases**" is aimed at the development of the following competences /competences in part: PC-2, PC-3, PC-4, PC-5.

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-2	Being able to examine a patient to establish a diagnosis	PC-2.1. Mastering the skills to collect complaints, anamnesis of the patient's life and disease, as well as conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation). PC-2.2. Being able to make a preliminary diagnosis and make up a plan of laboratory and instrumental examinations of a patient. PC-2.3. Being able to refer a patient to a laboratory examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the medical care standards. PC-2.4. Being able to refer a patient to an instrumental examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care. PC-2.5. Being able to refer a patient to consult with a medical specialist if there is a medical indication in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care. PC-2.6. Being able to refer a patient to be provided with specialized medical care in an inpatient setting or in a day hospital in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care. PC-2.7. Being able to carry out differential diagnosis with other diseases/conditions, including the urgent

		<p>ones, as well as to make a diagnosis taking into account the current inter-national statistical classification of diseases and problems related to health (ICD).</p>
<p>PC-3</p>	<p>Being able to prescribe treatment and monitor its efficacy and safety</p>	<p>PC-3.1. Being able to develop a treatment plan for a disease or condition taking into account the diagnosis, age and clinical presentation in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-3.2. Being able to prescribe medicinal drugs, medical devices and medical nutrition taking into account the diagnosis, age and clinical presentation of the disease and in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-3.3. Being able to prescribe non-drug treatment taking into account the diagnosis, age and clinical presentation of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p>

PC-4	Being able to implement and to monitor the effectiveness of the patient's medical rehabilitation, including in the implementation of individual rehabilitation or rehabilitation programs for the disabled, to assessment the pa-tient's ability to carry out work activities	PC-4.1. Being able to carry out an examination of temporary disability and work as part of a medical commission carrying out an examination of temporary disability; PC-4.2 Being able to prepare the necessary medical documentation for the implementation of medical and social expertise in federal state institutions of medical and social expertise; PC-4.7 Being able to refer a patient with a persistent impairment of body functions due to diseases, consequences of injuries or defects to medical and social expertise;
PC-5	Being able to conduct and to monitor the effectiveness of measures for the prevention and formation of a healthy lifestyle and sanitary and hy-gienic education of the popula-tion	PC-5.11 Being able to evaluate the effectiveness of preventive work with patients;

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-2	Ability to examine a patient to establish a diagnosis	<i>Medical Enzymology**;</i> <i>Molecular genetics in practical biology and medicine**;</i> Ophthalmology; Propaedeutics of internal diseases; Medical Elementology; Obstetrics and gynecology; Immunology; Otorhinolaryngology; General Surgery; Faculty therapy; Faculty Surgery; Microbiology, virology;	Telemedicine; General medical skills; Urgent conditions; Obstetrics and gynecology; Infectious diseases; Pediatrics; Maxillofacial surgery; Sectional course; Endocrinology; Psychiatry, medical psychology; Phthisiology; Outpatient therapy;

		<p>Pathophysiology, clinical pathophysiology; Neurology, medical genetics, neurosurgery; Evidence-based medicine; Radiation diagnostics; Dermatovenereology; Molecular genetic methods; Pathological anatomy, clinical pathology anatomy; Urology; Surgical practice : Assistant surgeon ; Obstetric and gynecological practice: assistant to a gynecologist;</p>	<p>Anesthesiology, intensive care, intensive care; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Reproductive health; Cardiology in Quests; Hospital therapy; Endoscopic urology; Allergology; Practice of obstetric and gynecological profile: assistant obstetrician; General medical practice: Assistant pediatrician</p>
PC -3	<p>Ability to prescribe treatment and monitor its effectiveness and safety</p>	<p><i>Introduction to Nutritionology**;</i> <i>Ophthalmology;</i> <i>Obstetrics and gynecology;</i> <i>Otorhinolaryngology;</i> <i>Faculty therapy;</i> <i>Pharmacology;</i> <i>Faculty Surgery;</i> <i>Fundamentals of Integrative medicine**;</i> <i>Neurology, medical genetics,</i> <i>neurosurgery;</i> <i>Dermatovenereology;</i> <i>The basics of therapeutic nutrition;</i> <i>Clinical Trials**;</i> <i>Urology; Surgical practice : Assistant surgeon ; Practice of obstetric and gynecological profile: assistant to a gynecologist;</i></p>	<p>Telemedicine; <i>Outpatient Cardiology**;</i> Obstetrics and gynecology; Infectious diseases; Clinical Pharmacology; Pediatrics; Maxillofacial surgery; Endocrinology; Psychiatry, medical psychology; Phthisiology; Outpatient therapy; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Reproductive health; Cardiology in Quests; Geriatrics and palliative medicine; Hospital therapy;</p>

			Endoscopic urology; Allergology; Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician
PC-4	Being able to implement and to monitor the effectiveness of the patient's medical rehabilitation, including in the implementation of individual rehabilitation or rehabilitation programs for the disabled, to assess the patient's ability to carry out work activities	<i>Organization of special patient care; Faculty therapy; Faculty Surgery; Public health and healthcare, health economics; Medical rehabilitation; Neurology, medical genetics, neurosurgery; Surgical practice : Assistant surgeon</i>	<i>Examination of temporary disability**;</i> Endocrinology; Forensic medicine; Outpatient therapy; Hospital surgery, pediatric surgery; Traumatology, orthopedics; Hospital therapy;
PC-5	Being able to conduct and to monitor the effectiveness of measures for the prevention and formation of a healthy lifestyle and sanitary and hygienic education of the population	<i>Introduction to Nutritionology**;</i> <i>Ophthalmology;</i> <i>Propaedeutics of internal diseases;</i> <i>Organization of special patient care;</i> <i>Obstetrics and gynecology;</i> <i>Epidemiology;</i> <i>Hygiene; Neurology, medical genetics, neurosurgery;</i> <i>Dermatovenerology;</i> <i>Fundamentals of psychophysiology**;</i> <i>Urology;</i>	<i>Outpatient Cardiology**;</i> <i>Obstetrics and gynecology;</i> <i>Infectious diseases;</i> <i>Pediatrics;</i> <i>Endocrinology;</i> <i>Phthiology;</i> <i>Outpatient therapy;</i> <i>Reproductive health;</i> <i>Endoscopic urology; General medical practice: Assistant pediatrician</i>

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Professional diseases" 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			
		9			
<i>Contact academic hours</i>	51	51			
including:					
Lectures (LC)					
Lab work (LW)	51	51			
Seminars (workshops/tutorials) (S)					
<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		

* 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
Section 1 Occupational diseases of respiratory system.	1.1 Introduction to the clinic of occupational diseases. Differential diagnosis of pneumoconiosis Introduction to the clinic of occupational diseases and its tasks. Issues of diagnosis and medical prevention. 14. Pneumoconiosis. Their classification. Silicosis: etiology, pathogenesis, clinical presentation, diagnosis, course and complications, treatment, prevention. Silicotuberculosis. Pathogenesis, clinical variants of the course, diagnosis, treatment, prevention, outcome, VTE. Silicatosis, anthracosis, pneumoconiosis of electric welders, aluminosis, pneumoconiosis from exposure to plant dust. Berylliosis. Pathogenesis, clinic, diagnosis, treatment. Dust bronchitis. Occupational bronchial asthma. Bronchoallergoses. Etiology, pathogenesis. Clinical and diagnostic features. Establishment of the professional nature of the disease, treatment, prevention, prognosis.	LW
Section 2 Vibration disease. Noise sickness (chronic occupational sensorineural hearing loss).	2.1 Differential diagnosis of vibration disease. Clinical presentation of the disease associated with the exposure of local vibration and combined impact of local and general vibration. Stages of the disease, diagnosis, differential diagnosis, treatment, prevention, prognosis.	LW
Section 3 Occupational diseases of the musculoskeletal system	3.1 Differential diagnosis of occupational diseases of the musculoskeletal system. Occupational diseases of the musculoskeletal system caused by physical overstrain and microtraumatization in workers of industrial enterprises and agricultural industries. Arthralgias, arthrosis, polyarthritis, aseptic bone necrosis, bursitis, tendovaginitis, dyskinesia, peri-arthritis of the shoulder joint, shoulder epicondylitis, occupational polyneuritis and sciatica. Pathogenesis, clinical presentation, diagnosis, treatment, prognosis, prevention.	LW

Section 4 Domestic poisoning	<p style="text-align: center;">4.1</p> <p style="text-align: center;">Classification of poisoning. The main clinical syndromes. General principles of emergency therapy.</p> <p>Domestic poisoning. Classification. Methods of diagnosis. The main clinical syndromes. General principles of emergency therapy: prevention of further contact with poisons of its absorption, elimination of poison from the body, antidotes, treatment of intoxication-related syndromes. Acute poisoning with carbon monoxide, amido and nitro compounds, alcohol, sleeping pills and tranquilizers, acids and alkalis. Clinic, diagnosis, treatment, prevention. Intoxication with chemicals used in agriculture. Classification of pesticides according to their purpose, chemical structure, and routes of entry into the body. Acute and chronic poisoning with organochlorine and phosphorous compounds, organic mercury compounds, and arsenic-containing substances. Pathogenesis, clinic, diagnosis, prognosis, treatment, prevention</p>	LW
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* - 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)
Lecture	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	<p>A set of specialized furniture; magnetic marker board, Cactus Motoscreen screen; technical means: laptops- Lenovo , Asus; HP; multimedia projectors - NEC, Epson EB-XO3; Acer X113P; Optoma DH351 DLP; an Internet connection.</p> <p>Software: Microsoft products (OS, office application package, including MS Office/ Office 365, Skype): Yandex 360 (Yandex Teleconference).</p>

<p>Computer lab</p>	<p>A computer classroom for conducting classes, group and individual consultations, current and intermediate control sessions, equipped with personal computers (in the amount of [Parameter] pcs.), a blackboard (screen) and multimedia presentation equipment.</p>	<p>A set of specialized furniture; magnetic marker board, Cactus Motoscreen screen; technical means: laptops- Lenovo , Asus; HP; multimedia projectors - NEC, Epson EB-XO3; Acer X113P; Optoma DH351 DLP; an Internet connection. Software: Microsoft products (OS, office application package, including MS Office/ Office 365, Skype): Yandex 360 (Yandex Teleconference).</p>
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Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, current and midterm assessment, equipped with a set of specialized furniture and technical means for multimedia presentations.	A set of specialized furniture; magnetic marker board, Cactus Motoscreen screen; technical means: laptops- Lenovo , Asus;HP; multimedia projectors - NEC, Epson EB-XO3; Acer X113P; Optoma DH351 DLP; an Internet connection. Software: Microsoft products (OS, office application package, including MS Office/ Office 365, Skype): Yandex 360 (Yandex Teleconference).
Self-studies	A classroom for independent work of students (can be used for conducting seminars and consultations), equipped with a set of specialized furniture and computers with access to the Electronic Information and Educational Environment (EIEE).	A set of specialized furniture; magnetic marker board, Cactus Motoscreen screen; technical means: laptops- Lenovo , Asus; HP; multimedia projectors - NEC, Epson EB-XO3; Acer X113P; Optoma DH351 DLP; an Internet connection. Software: Microsoft products (OS, office application package, including MS Office/ Office 365, Skype): Yandex 360 (Yandex Teleconference).

* - The classroom for independent work of students is **MANDATORY** to be indicated!

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Babanov, S. A. Occupational diseases : textbook / edited by S. Babanov. A. , L. Strizhakova. A. , V. Fomin. V. - Moscow : GEOTAR-Media, 2021. - p. 592. - ISBN 978-5-9704-6425-0. - Text : electronic // EBS "Student Consultant" : [website]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970464250.html>

2. Mukhin, N. A. Occupational diseases / edited by N. A. Mukhina, S. A. Babanov - Moscow : GEOTAR-Media, 2018. - p. 576. - ISBN 978-5-9704-4299-9. - Text : electronic // EBS "Student Consultant" : [website]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970442999.html>
3. Mukhin, N. A. Occupational diseases : textbook / N. A. Mukhin [et al]. - 2nd edition , revised and expanded - Moscow : GEOTAR Media, 2021. - p. 512. - ISBN 978-5-9704-6165-5. - Text : electronic // EBS "Student Consultant" : [website]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970461655.html>

Additional readings:

1. Occupational diseases. Textbook. GEOTAR-Media Publishing House. Edited by S.A. Babanov, L.A. Strizhakov, V.V. Fomin, 2021, 592 p.
2. Occupational diseases and military field therapy. Textbook / Edited by A.S. Babanov, L.A. Strizhakova, V.V. Fomin. Moscow: GEOTAR-Media. 2023. - 576 p. - ISBN 978-59704-7447-1.
3. Occupational pathology. National guidelines / Ed. by I.V. Bukhtiyarov. Publishing house GEOTAR-Media. – 2024.- 904 p.
5. Occupational pathology in questions and answers. Guide for doctors / Ed. Bukhtiyarov. Publishing house GEOTAR-Media. - 2023.- 272 p.
6. Kosarev, V. V. Occupational diseases: a textbook / V. V. Kosarev, S. A. Babanov. - Moscow: University textbook: INFRA-M, 2019. - 252 p. - ISBN 978-5-95580178-0. - Text: electronic. - URL: <https://znanium.ru/catalog/product/1002371>
7. Kosarev, V.V. Occupational diseases of medical and pharmacological workers / V.V. Kosarev, S.A. Babanov. - Samara: Ofort, 2009. - 59 p. - ISBN 978-5-47300498-4. - Text: electronic. - URL: <https://znanium.com/catalog/product/432071>
8. Occupational health and safety guidelines (English). Office of Environmental Affairs. Washington, D.C. : World Bank Group. <http://documents.worldbank.org/curated/en/308631492969180329/Occupational-health-and-safety-guidelines>.
9. Diagnostic and exposure criteria for occupational diseases Guidance notes for diagnosis and prevention of the diseases in the ILO List of Occupational Diseases (revised 2010) Copyright © International Labour Organization 2022/ <https://www.ilo.org/publications/occupational-diseases-guidance-notes-0>
10. Modern Occupational Diseases Diagnosis, Epidemiology, Management and Prevention by Ki Moon Bang (Author). Bentham Science Publishers (September 22, 2022)- 389 pages
11. Data and statistics | International Labour Organization/ ILO Encyclopaedia of Occupational Health and Safety/ <https://www.iloencyclopaedia.org/>
12. Work-related Diseases and Occupational Diseases: The ILO International List/ <https://www.iloencyclopaedia.org/part-iii-48230/topics-in-workers-compensation-systems/item/355-work-related-diseases-and-occupational-diseases-the-ilo-international-list>

Resources of the information and telecommunications network "Internet":

1. RUDN University EBS and third-party EBSs to which university students have access on the basis of concluded agreements

- Electronic library system of RUDN - EBS RUDN <http://lib.rudn.ru/MegaPro/Web>
- EBS "University library online" <http://www.biblioclub.ru>
- EBS Yurait <http://www.biblio-online.ru>
- EBS "Student consultant" www.studentlibrary.ru
- EBS "Troitsky bridge"

2. Databases and search engines

- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
- search engine Yandex <https://www.yandex.ru/>
- search engine Google <https://www.google.ru/>
- abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

Educational and methodological materials for independent work of students in mastering a discipline/module:*

1. Lecture course on the subject "Occupational diseases".

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

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