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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**

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

## **COURSE SYLLABUS**

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### **INFECTIOUS DISEASE, PHTHYSIOLOGY**

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course title

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

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**31.05.03 «DENTISTRY»**

field of studies / specialty code and title

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

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**31.05.03 «DENTISTRY»**

higher education programme profile/specialisation title

2024-2025

## 1. COURSE GOAL(s)

The goal of the course “Infectious Diseases, Phthisiology” is to equip students with the knowledge of phthisiology as well as the principles of diagnosis, treatment and prevention of infectious diseases, taking into account further education and professional activities of a general dentist.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “Infectious Diseases, Phthisiology” is aimed at the development of the following competences /competences in part: GC-8, GPC-2.

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

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Competence formation indicators (within this course)</b>
GC-8.	Able to create and maintain safe living conditions in everyday life and in professional activities to preserve the natural environment, ensure the sustainable development of society, including in the event of a threat and the occurrence of emergencies and military conflicts.	GC-8.3. Resolves issues related to safety violations and participates in emergency prevention activities in the workplace.
		GC-8.4. Observes and explains the rules of conduct in the event of emergencies of natural and man-made origin, provides first aid, participates in recovery activities.
GPC-2.	Capable of prescribing, monitoring the efficacy and safety of non-drug and drug treatments	GPC-2.8. Carries out observation and treatment of diseases of the mucous membrane of the oral cavity, lips, with the exception of a specialized appointment for the treatment of precancers of the mucous membrane of the oral cavity and lips and the treatment of children with manifestations of viral, bacterial, allergic and other childhood infections in the oral cavity.
		GPC-2.10. Carries out the provision of medical care in emergency and emergency forms, eliminating foci of infection and intoxication. (quarantine) infectious diseases

### 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*

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Previous courses/modules*</b>	<b>Subsequent courses/modules*</b>
GC-8.	Able to create and maintain safe living conditions in everyday life and in professional activities to preserve the natural environment, ensure the sustainable development of society, including in the event of a threat and the occurrence of emergencies and military conflicts.	Health informatics Biology Hygiene	Public health
GPC-2.	Capable of prescribing, monitoring the efficacy and safety of non-drug and drug treatments	Immunology, Microbiology, Pathophysiology	Internal Medicine Clinical pharmacology Public health

\* 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 "Infectious Diseases, Phthisiology" is 3 credits (108 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
		7
Contact academic hours	48	48
<i>Including:</i>		
Lectures (LC)		
Lab work (LW)	48	48
Seminars (workshops/tutorials) (S)		
Self-studies	51	51
Evaluation and assessment (exam/passing/failing grade)	9	9
<b>Course workload</b>	academic hours	<b>108</b>
	credits	<b>3</b>

\* 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
Module 1 Introduction to the course	<b>Topic 1.1.</b> Modern state of the problem of infectious diseases. Properties of the causative agents of infectious diseases. Modern methods of laboratory diagnostics of infectious diseases. Principles of treatment of infectious diseases. Tactics of a dentist if infectious disease is suspected in patient.	LW
	<b>Topic 1.2.</b> Professional approach of a dentist if infectious disease is suspected in patient.	LW
Module 2 Bacterial infections	<b>Topic 2.1.</b> Diphtheria and infectious mononucleosis	LW
	<b>Topic 2.2.</b> Sepsis. Pathogenesis basis of prevention, diagnosis and treatment. Odontogenic sepsis, causes, prevention, diagnosis and treatment	LW
	<b>Topic 2.3.</b> Chlamydial infections. The clinic, diagnosis, treatment.	LW
	<b>Topic 2.4.</b> Streptococcal infection: acute tonsillitis (angina), erysipelas of face, scarlet fever. Epidemiology. Pathogenesis. Clinic. Laboratory diagnosis. Complications. Principles of treatment	LW
	<b>Topic 2.5.</b> Tetanus. Etiology. Epidemiology.	LW

<b>Course module title</b>	<b>Course module contents (topics)</b>	<b>Academic activities types</b>
	Pathogenesis. Clinical manifestations. Laboratory diagnosis. Treatment. Prevention	
	<b>Topic 2.6.</b> Etiology and pathogenesis of tuberculosis. Methods of diagnosis of tuberculosis. Clinical manifestations of tuberculosis	LW
Module 3 Viral infections	<b>Topic 3.1</b> Influenza, adenovirus infection and other acute viral respiratory disease.	LW
	<b>Topic 3.2</b> Herpes viruses.	LW
	<b>Topic 3.3</b> Mumps viruses	LW
	<b>Topic 3.4</b> HIV infection	LW
	<b>Topic 3.5</b> Viral hepatitis	LW
	<b>Topic 3.6</b> Measles and rubella viruses	LW
Module 4 Etiopathogenesis. Etiology of tuberculosis.	<b>Topic 4.1</b> The content and objectives of the science of physiology, its relationship with other medical disciplines.	LW
	<b>Topic 4.2</b> Topic 4.2 Epidemiology situation of tuberculosis around the globe	LW
	<b>Topic 4.3</b> Taxonomic characteristics of the causative agent of tuberculosis. Pathogenesis of the development of pulmonary and extrapulmonary tuberculosis. latent tuberculosis	LW
Module 5 Diagnosis, management, and treatment of tuberculosis	<b>Topic 5.1</b> Diagnosis of the tuberculosis process.	LW
	<b>Topic 5.2</b> Treatment of tuberculosis. The mode and nutrition of a patient with tuberculosis. Management of critical cases in TB practice	LW
Module 6 Tuberculosis in dentist practice.	<b>Topic 6.1</b> Tuberculosis of the skin of the face: classification, clinical manifestations, diagnosis, treatment.	LW
	<b>Topic 6.2</b> Tuberculosis of peripheral lymph nodes: classification, clinical manifestations, diagnosis, treatment.	LW
	<b>Topic 6.3</b> Tuberculosis of the larynx: classification, clinical manifestations, diagnosis, treatment	LW
	<b>Topic 6.4</b> Tuberculosis of the oral cavity, tongue: clinical manifestations, diagnosis, treatment	LW
	<b>Topic 6.5</b> Topic 6.5 Tuberculosis of the bones of the skull, face: clinical and radiological manifestations, diagnosis, treatment	LW

Course module title	Course module contents (topics)	Academic activities types
Module 7 Prevention aspects of tuberculosis	<b>Topic 7.1</b> Immunoprophylaxis of tuberculosis (vaccination and revaccination of BCG/BCG-M): indications, contraindications, technique, complications; characteristics of post-vaccination immunity	LW
	<b>Topic 7.2</b> Chemoprophylaxis of tuberculosis (treatment of latent tuberculosis infection): indications, timing, regimens of chemoprophylaxis.	LW
	<b>Topic 7.3</b> TB healthcare: goals, objectives, structure, functional aspects	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)
Lecture	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	
Seminar	A classroom for conducting seminars, group and individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and technical means for multimedia presentations.	List of specialised equipment, stands, visual posters, etc.
Computer Lab	A classroom for conducting classes, group and individual consultations, current and mid-term assessment, equipped with personal computers (in the amount of ___ pcs), a board (screen) and technical means of multimedia presentations.	List of specialised software installed on computers for mastering the discipline
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	

\* The premises for students' self-studies are subject to **MANDATORY** mention

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

Harrison's infectious diseases 3rd edition by Dennis Kasper and Anthony S Fauci  
Tuberculosis text book by Zinaida Yakovlevna Ivanova V. A. Koshechkin P Release date:  
June 2006 ISBN: 5-209-01830-X Volume: 280 pages

Medical Microbiology and Infection at a Glance Fourth edition Stephen H. Gillespie  
Kathleen B. Bamford.

Essential Tuberculosis 1st ed. 2021 Edition Giovanni Battista Migliori (Editor), Mario C.  
Raviglione.

Infectious Diseases, 2-Volume Set 4th Edition. Authors: Jonathan Cohen William  
Powderly Steven Opal. Published Date: 21st July 2016

Human Parasites: Diagnosis, Treatment, Prevention Heinz Mehlhorn

Infectious and Tropical Diseases: A Handbook...Tao Sheng Kwan-Gett, Charles Kemp

### *Additional readings:*

1. Online tuberculosis textbook <http://www.news-medical.net/news/2007/06/20/26673.aspx>
2. Tuberculosis: Current Issues in Diagnosis and Management
3. <http://www.e-booksdirectory.com/details.php?ebook=8772>
4. FDI POLICY STATEMENT.
5. <https://www.fdiworlddental.org/sites/default/files/media/documents/Tuberculosis-and-the-practice-of-dentistry-2003.pdf>
6. Stop TB, site WHO [www.med.pfu.edu.ru/www.stoptb.org/home.html](http://www.med.pfu.edu.ru/www.stoptb.org/home.html)
7. Tuberculosis site of CDC Atlanta [www.cdc.gov/nchstp/tb/](http://www.cdc.gov/nchstp/tb/)
8. The site of the international Union Against Tuberculosis and Lung Disease [www.iatld.org](http://www.iatld.org)
9. Oxford Handbook of Infectious Diseases and Microbiology by Estee Torok ,  
Ed Moran
10. Paniker's Textbook of Medical Parasitology C. K. Jayaram, M.D. Paniker,  
Sougata, M.D. Ghosh
11. Infectious Diseases in Critical Care Medicine...Burke A. Cunha
12. Infectious Disease Flashcards: Julie Harless
13. Microbial Diseases! All Parts Combined!Philip Carey

### *Internet sources*

14. 1. Electronic libraries (EL) of RUDN University and other institutions, to which  
university students have access on the basis of concluded agreements:
- 15.- RUDN Electronic Library System (RUDN ELS)  
<http://lib.rudn.ru/MegaPro/Web>
- 16.- EL "University Library Online" <http://www.biblioclub.ru>

- 17. - EL "Yurayt" <http://www.biblio-online.ru>
- 18. - EL "Student Consultant" [www.studentlibrary.ru](http://www.studentlibrary.ru)
- 19. - EL "Lan" <http://e.lanbook.com/>
- 20. - EL "Trinity Bridge"

.Databases and search engines:

- 21.- electronic foundation of legal and normative-technical documentation <http://docs.cntd.ru/>
- 22. - Yandex search engine [https:// www .yandex.ru/](https://www.yandex.ru/)
- 23.- Google search engine <https://www.google.ru/>
- 24. - Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>

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

- 1. The set of lectures on the course “Infectious Diseases and Phthisiology”
- 2. The laboratory workshop (if any) on the course “Infectious Diseases and Phthisiology”
- 3. The guidelines for writing a course paper / project (if any) on the course “Infectious Diseases and Phthisiology”.
- 4. ....

## **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 (GC-8, GPC-2) 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:**

Associate Professor- Department  
of Infectious Diseases,  
Epidemiology and Phthisiology

position, department

S.L. Voznesenskiy

name and surname

signature

Assistant Professor- Department of  
Infectious Diseases, Epidemiology  
and Phthisiology

position, department

K. C. Emerole

name and surname

signature



**HEAD OF DEPARTMENT:**

of Infectious Diseases,  
Epidemiology and Phthisiology

name of department

G.M. Kozhevnikova

signature

name and surname

**HEAD of the Higher Education Program:**

First Deputy Director of MI  
for Academic Affairs

position, department

I.V. Radysh

signature

name and surname