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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

Infectious Diseases, Phthisiology

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

2026.

1. COURSE GOAL(s)

The course "Infectious Diseases, Phthisiology" is included in the Specialist program "Dentistry" in the field of study 31.05.03 "Dentistry" and is studied in the 7th semester of the 4th year. The course is implemented by the Department of Infectious Diseases with Courses in Epidemiology and Phthisiology. The course consists of 7 modules and 26 topics and is aimed at studying infectious diseases and mastering the competences necessary for the practical activities of a dentist when providing care to patients with infectious pathology.

The goal of mastering the course is to master knowledge of general and special infectology and phthisiology, as well as the principles of diagnosis, treatment and prevention of infectious diseases, taking into account further training and professional activities of a general practice 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, 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)
GC-8	Able to create and maintain safe living conditions in everyday life and professional activities to preserve the natural environment, ensure sustainable development of society, including during the threat and occurrence of emergency situations and military conflicts	GC-8.3 Solves problems related to safety violations and participates in measures to prevent emergencies in the workplace; GC-8.4 Complies with and explains the rules of behavior in the event of natural and man-made emergencies, provides first aid, participates in recovery measures;
PC-2	Able to prescribe, monitor the effectiveness and safety of non-pharmacological and pharmacological treatment	PC-2.8 Conducts observation and treatment of diseases of the oral mucosa and lips, with the exception of specialized reception for the treatment of precancers of the oral mucosa and lips and treatment of children with manifestations of viral, bacterial, allergic and other childhood infections in the oral cavity; PC-2.10 Provides medical care in emergency and urgent forms, eliminating foci of infection and intoxication;

3. COURSE IN HIGHER EDUCATION PROGRAM 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*
GC-8	Able to create and maintain safe living conditions in everyday life and professional activities to preserve the natural environment, ensure sustainable development of society, including during the threat and occurrence of emergency situations and military conflicts	Fundamentals of Military Training. Life Safety; Hygiene;	Medical Rehabilitation; Epidemiology;
PC-2	Able to prescribe, monitor the effectiveness and safety of non-pharmacological and pharmacological treatment	Cariology and Diseases of Hard Tooth Tissues; Local Anesthesia and Anesthesiology in Dentistry; Oral Surgery; Endodontics; Innovative Technologies in Dentistry; Bioelements in Medicine; Medical Elementology ; Propedeutics of Dental Diseases; Dentures (simple prosthetics); Prosthetics for Complete Edentulism; Organization of General Patient Care;	Assistant Dentist (General Practice), including research work; Assistant Dentist (Therapist); Assistant Dentist (Pediatric); Pediatric Dentistry; Diseases of the Head and Neck; Implantology and Reconstructive Oral Surgery; Orthodontics and Pediatric Prosthetics; Maxillofacial and Gnathic Surgery; Gerontostomatology and Diseases of the Oral Mucosa; Periodontology; Modern Endodontics; Physiotherapy of Dental Diseases; Clinical Pharmacology; Aesthetic Tooth Restoration ; Clinical Dentistry; Gnathology and Functional Diagnostics of the Temporomandibular Joint; Pediatric Maxillofacial Surgery; Medical Genetics in Dentistry; Prosthetics of Dentition (complex prosthetics); Maxillofacial Prosthetics;

* 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**)*

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Type of academic activities		Total academic hours	Semesters/training modules
			7
Classes (total) ac.h.		72	72
<i>Including:</i>			
Lectures (LC)			
Lab work (LW)		51	51
Seminars (workshops/tutorials) (S)			
<i>Self-studies</i>		48	48
<i>Evaluation and assessment (exam/passing/failing grade)</i>		9	9
Course workload	academic hours	108	108
	credits	3	3

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

5. COURSE MODULES AND CONTENTS

Table 5.1. Course (module) content by type of academic activity

Module No.	Name of Course Module	Name of Topic	Topic Content	Type of Academic Activity*
Module 1	Introduction to the Specialty	1.1	Characteristics of Infectious Diseases. Current state of the problem of infectious diseases. Modern methods of laboratory diagnostics of infectious diseases. Principles of treatment of infectious diseases.	LW
		1.2	Management Strategy of a Dentist When an Infectious Disease is Suspected	LW

	in a Patient. Clinical manifestations of infectious diseases available for detection by a dentist. Collection of epidemiological history, characteristics of physical examination and interpretation of data. Algorithm for further organizational strategy.	
Module 2 Bacterioses	2.1 Diphtheria. Definition, etiology, clinical picture, laboratory and instrumental approach, principles of therapy, prevention.	LW
	2.2 Sepsis. Pathogenesis, fundamentals of prevention, diagnosis and treatment. Odontogenic sepsis. Sepsis as a syndrome of systemic inflammatory response SIRS.	LW
	2.3 Chlamydial Infections. Definition, etiology, clinical picture, laboratory and instrumental approach, principles of therapy, prevention.	LW
	2.4 Streptococcal Infection: Acute Tonsillitis (Sore Throat), Facial	LW

	Erysipelas, Scarlet Fever. Definition, etiology, clinical picture, laboratory and instrumental approach, principles of therapy, prevention.	
	2.5 Tetanus. Definition, etiology, clinical picture, laboratory and instrumental approach, principles of therapy, prevention.	LW
Module 3 Viral Diseases	3.1 Influenza, Adenovirus Infection and Other Acute Viral Respiratory Diseases. Definition, etiology, clinical picture, laboratory and instrumental approach, principles of therapy, prevention.	LW
	3.2 Herpesvirus Diseases. Definition, classification, etiology, clinical picture, laboratory and instrumental approach, principles of therapy, prevention.	LW
	3.3 Mumps Infection. Definition, etiology, clinical picture, laboratory and instrumental approach, principles of therapy, prevention.	LW
	3.4 Human Immunodeficiency Virus Infection (HIV Infection).	LW

	Definition, etiology, classification, clinical picture, laboratory and instrumental approach, principles of therapy, prevention.	
	3.5 Viral Hepatitis. Viral hepatitis B, D, C. Prevalence and relevance. Definition, etiology, classification, clinical picture, laboratory and instrumental approach, principles of therapy, prevention.	LW
	3.6 Measles. Definition, etiology, classification, clinical picture, laboratory and instrumental approach, principles of therapy, prevention.	LW
Module 4 Etiopathogenesis, Pathomorphology, Epidemiology of Tuberculosis	4.1 Content and Objectives of the Science of Phthisiology, Its Relationship with Other Medical Disciplines. Etiopathogenesis and epidemiology of tuberculosis. Pathomorphosis of tuberculosis in modern conditions. Structure and functions of the dispensary. Focus of tuberculosis infection. Accounting groups. Diagnosis of tuberculosis -	

		laboratory, tuberculin, radiological, bacteriological diagnostics. Other diagnostic methods.	
		4.2 Epidemiology of Tuberculosis in the World and the Russian Federation (Data from Rospotrebnadzor and WHO). Characteristics of the epidemiology of tuberculosis at the present time. Current issues of prevalence and socially significant characteristics.	
		4.3 Taxonomic Characteristics of the Tuberculosis Pathogen. Pathogenesis of Pulmonary and Extrapulmonary Tuberculosis. Latent Tuberculosis. Primary and secondary tuberculosis. Differential diagnosis. Treatment standards for tuberculosis patients depending on clinical forms in children and adults. Tuberculosis with multidrug resistance (MDR-TB) and extensively drug resistance (XDR-TB). Anti-epidemic measures. Significance of immunoprophylaxis.	
Module 5	Diagnosis and Principles of Tuberculosis Treatment	5.1 Diagnosis of the	

		Tuberculous Process. Clinical, laboratory, instrumental and epidemiological methods for diagnosing tuberculosis.	
		5.2 Etiological Therapy of Tuberculosis. Regimen and Nutrition of a Tuberculosis Patient. Emergency Care in Phthisiology Practice. Anti-tuberculosis drugs of levels 1, 2 and 3. Problems of drug resistance and ways to overcome it. Regimen and nutrition of a tuberculosis patient. Emergency care in phthisiology practice.	
Module 6	Tuberculosis in Dental Practice: Tuberculosis of the Skin, Peripheral Lymph Nodes, Larynx, Oral Cavity, Bones of the Skull and Face	6.1 Tuberculosis of the Facial Skin. Characteristics of classification, clinical manifestations, diagnosis and treatment.	
		6.2 Tuberculosis of Peripheral Lymph Nodes: Classification, Clinical Manifestations, Diagnosis, Treatment. Characteristics of classification, clinical manifestations, diagnosis and treatment.	
		6.3	

		Tuberculosis of the Larynx: Classification, Clinical Manifestations, Diagnosis, Treatment. Characteristics of classification, clinical manifestations, diagnosis and treatment.	
		6.4 Tuberculosis of the Oral Cavity, Tongue: Clinical Manifestations, Diagnosis, Treatment. Characteristics of classification, clinical manifestations, diagnosis and treatment.	LW
		6.5 Tuberculosis of the Bones of the Skull and Face: Clinical and Radiological Manifestations, Diagnosis, Treatment. Characteristics of classification, clinical manifestations, diagnosis and treatment.	LW
Module 7	Prevention of Tuberculosis and Organization of Anti-Tuberculosis Care for the Population	7.1 Immunoprophylaxis of Tuberculosis. Vaccination and revaccination with BCG/BCG-M: indications, contraindications, technique, complications; characteristics of post-vaccination immunity.	LW

		7.2 Chemoprophylaxis of Tuberculosis. Risk groups requiring chemoprophylaxis, its principles. Treatment of latent tuberculosis infection: indications, timing, chemoprophylaxis regimens.	LW
		7.3 Anti-Tuberculosis Dispensary. Goals, objectives, structure and functions of anti-tuberculosis dispensaries. History of the anti-tuberculosis service.	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

Classroom for Academic Activity Type	Classroom Equipment	Specialized educational/laboratory equipment, software and materials for mastering the course (if necessary)
Lab-work	Classroom for conducting lab work, individual consultations, ongoing assessment and interim certification, equipped with a set of specialized furniture and equipment.	Negatoscope, kit for immunological diagnosis of tuberculosis.
Seminar	Classroom for conducting seminar-type classes, group and individual consultations, ongoing assessment and interim certification, equipped with a set of specialized furniture and multimedia presentation technical equipment.	
Self-studies	Classroom for self-studies of students (may be used for seminar classes and consultations), equipped with a set of specialized furniture and computers with access to the Electronic Information and Educational Environment.	Set of specialized furniture; technical equipment: internet access available.

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Infectious Diseases: Textbook N. D. Yushchuk, Yu. Ya. Vengerov ISBN 10: 5970455040 / ISBN 13: 9785970455043 Published by Geotar-Media, 2020
2. MANDELL, DOUGLAS, AND BENNETT'S INFECTIOUS DISEASE ESSENTIALS 2017

3. Essential Tuberculosis 1st ed. 2021 Edition Giovanni Battista Migliori (Editor), Mario C. Raviglione
4. Harrison's infectious diseases 3rd edition by Dennis Kasper and Anthony S Fauci
5. Tuberculosis text book by Zinaida Yakovlevna Ivanova V. A. Koshechkin P Release date: June 2006 ISBN: 5-209-01830-X Volume: 280 pages
6. Medical Microbiology and Infection at a Glance Fourth edition Stephen H. Gillespie Kathleen B. Bamford
7. Infectious Diseases, 2-Volume Set 4th Edition. Authors: Jonathan Cohen William Powderly Steven Opal. Published Date: 21st July 2016
8. Human Parasites: Diagnosis, Treatment, Prevention Heinz Mehlhorn
9. Infectious and Tropical Diseases: A Handbook... Tao Sheng Kwan-Gett, Charles Kemp
10. Netter's Infectious Diseases. JAMA. 307. 972. 10.1001/jama.2022.243. Book with web access and image download at <http://www.netterreference.com>. Edited by Elaine C. Jong, MD, FIDSA, FASTMH and Dennis L. Stevens, MD, PhD 602 pages, Philadelphia, PA, Elsevier-Saunders, 2012 ISBN- 9780323711593

Optional 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. Oxford Handbook of Infectious Diseases and Microbiology-
<https://share.google/jHtjgs3GR0efW9PS>
4. <http://www.e-booksdirectory.com/details.php?ebook=8772>
5. <https://www.fdiworldddental.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
7. Tuberculosis site of CDC Atlanta www.cdc.gov/nchstp/tb/
8. The site of the international Union Against Tuberculosis and Lung Disease www.iatld.org

Internet-based sources:

1. Electronic libraries with access for RUDN students:
 - RUDN Electronic Library System – ELS RUDN <https://mega.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 "Znaniy" <https://znaniy.ru/>
2. Databases and search engines:
 - Sage <https://journals.sagepub.com/>
 - Springer Nature Link <https://link.springer.com/>
 - Wiley Journal Database <https://onlinelibrary.wiley.com/>
 - Scientometric database Lens.org <https://www.lens.org>

Learning toolkits for self-studies in the RUDN LMS TUIS*:

1. Lecture course on the discipline "Infectious Diseases, Phthisiology".
 - - all learning toolkits for self-studies of students are placed in accordance with the current procedure on the course page in the TUIS!

DEVELOPER:

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Infectious Diseases, Epidemiology and
Phthisiology

Position, Educational Department

signature

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