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

Medical Institute

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

COURSE SYLLABUS

INFECTIOUS DISEASE, PHTHYSIOLOGY

Course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 «DENTISTRY»

field of studies / specialty code and title

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

31.05.03 «DENTISTRY»

higher education programme profile/specialisation title

1 THE GOALS OF MASTERING THE DISCIPLINE

The aim of this course is to increase the knowledge of physiology 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

The training program for students is aimed at developing the following competencies

General Competences (UC)- UC-8. (UC-8.3., UC-8.4.);

Professional Competences (PC)- PC-2. (PC-2.8., PC-2.10.)

(Training requirements in accordance with the federal state educational standards of higher education (FSES) 3++ 31.05.03 General dentistry).

Table 2.1. List of course competencies requirements (and the results of completing the course)

Universal Competence Category	Universal Competence Code and Name	Universal Competence Achievement Indicator Code and Name
Life safety	UC-8. Being able to create and maintain safe conditions in everyday life and professional activity to protect natural environment, ensure sustainable development of society, including in the event of a threat and occurrence of emergencies and military conflicts.	UC-8.3. Solving problems related to unsafe behavior and participating in activities to prevent emergencies in the workplace. UC-8.4. Observing and explaining the rules of behavior in case of emergencies of natural and man-made origin; providing first aid; participating in recovery activities.
Professional Competence Name	Professional Competence Code	Professional Competence Achievement Indicator Code and Name
Theoretical and practical foundations of professional activity. Dental disease treatment	PC-2. Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	PC-2.8. Observing and treating diseases of the oral mucosa, lips, with the exception of a specialized appointment for the treatment of precancers of the oral mucosa and lips, and treatment of children with manifestations of viral, bacterial, allergic and other pediatric infections in the oral cavity. PC-2.10. Providing medical care in emergency and urgent forms, eliminating foci of infection and systemic manifestations.

3. THE COURSE IN THE HIGHER EDUCATION PROGRAMME STRUCTURE

This course «Infectious diseases, phthisiology» refers to the Compulsory Disciplines of block B1 of the EP HE. Within the framework of the Educational Program, students also master other disciplines and/or practices that contribute to expected learning outcomes of this course

Table 3.1. List of Higher Education Program disciplines that contribute to expected learning outcomes

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices *
UC-8.	Being able to create and maintain safe conditions in everyday life and professional activity to protect natural environment, ensure sustainable development of society, including in the event of a threat and occurrence of emergencies and military conflicts.	Health informatics Biology Hygiene	Public health
PC-2.	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	Immunology, Microbiology, Pathophysiology	Internal Medicine Clinical pharmacology Public health

* - filled in accordance with the competencies and HEP

4. THE COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload is equal to 7 credits.

Table 4.1. Types of academic activities during the period of the HE program

Type of academic activity	Total hours	Semester
		7
Classroom activities (academic hours)	72	72
<i>Lectures (Lec)</i>	4	4
Practical/seminar classes (SC)	68	68
<i>Laboratory work (LW)</i>	-	-
Self-study	30	30
Overall assessment	6	6
Total workload of the discipline	ac.h.	108
	credits	3

5. THE COURSE MODULES AND CONTENTS

Table 5.1. The content of the discipline and types of academic activities

Modules and Topics	Content of the topics	Type of academic activities
Module 1 Introduction to the course	1.1. 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.	Lec
	1.2. Professional approach of a dentist if infectious disease is suspected in patient.	Lec
Module 2 Bacterial infections	2.1. Diphtheria and infectious mononucleosis	SC
	2.2. Sepsis. Pathogenesis basis of prevention, diagnosis and treatment. Odontogenic sepsis, causes, prevention, diagnosis and treatment	SC
	2.3. Chlamydial infections. The clinical manifestations, diagnosis, treatment.	SC
	2.4. Streptococcal infection: acute tonsillitis (angina), erysipelas of face, scarlet fever. Epidemiology. Pathogenesis. Clinic. Laboratory diagnosis. Complications. Principles of treatment	SC
	2.5. Tetanus. Etiology. Epidemiology. Pathogenesis. Clinical manifestations. Laboratory diagnosis. Treatment. Prevention	SC
	2.6. Etiology and pathogenesis of tuberculosis. Methods of diagnosis of tuberculosis. Clinical manifestations of tuberculosis	SC
Module 3 Viral infections	3.1 Influenza, adenovirus infection and other acute viral respiratory disease.	SC
	3.2 Herpes viruses.	SC
	3.3 Mumps viruses	SC
	3.4 HIV infection	SC
	3.5 Viral hepatitis	SC
	3.6 Measles and rubella viruses	SC

Modules and Topics	Content of the topics	Type of academic activities
Module 4 Etiopathogenesis. Etiology of tuberculosis.	4.1 The content and objectives of the science of phthisiology, its relationship with other medical disciplines.	SC
	4.2 Topic 4.2 Epidemiology situation of tuberculosis around the globe	SC
Etiopathogenesis. Etiology of tuberculosis	4.3 Taxonomic characteristics of the causative agent of tuberculosis. Pathogenesis of the development of pulmonary and extrapulmonary tuberculosis. latent tuberculosis	SC
Module 5 Diagnosis, management, and treatment of tuberculosis	5.1 Diagnosis of the tuberculosis process.	SC
	5.2 Treatment of tuberculosis. The mode and nutrition of a patient with tuberculosis. Management of critical cases in TB practice	SC
Module 6 Tuberculosis in dentist practice.	6.1 Tuberculosis of the skin of the face: classification, clinical manifestations, diagnosis, treatment.	SC
	6.2 Tuberculosis of peripheral lymph nodes: classification, clinical manifestations, diagnosis, treatment.	SC
	6.3 Tuberculosis of the larynx: classification, clinical manifestations, diagnosis, treatment	SC
	6.4 Tuberculosis of the oral cavity, tongue: clinical manifestations, diagnosis, treatment	SC
	6.5 Topic 6.5 Tuberculosis of the bones of the skull, face: clinical and radiological manifestations, diagnosis, treatment	SC
Module 7 Prevention aspects of tuberculosis	7.1 Immunoprophylaxis of tuberculosis (vaccination and revaccination of BCG/BCG-M): indications, contraindications, technique, complications; characteristics of post-vaccination immunity	SC
	7.2 Chemoprophylaxis of tuberculosis (treatment of latent tuberculosis infection): indications, timing, regimens of chemoprophylaxis.	SC
	7.3 TB healthcare: goals, objectives, structure, functional aspects	SC

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENT

Table 6.1. Logistical and material provision of the discipline

Classroom for Academic Activity Type	Classroom Equipment	Specialized educational/laboratory equipment, software and materials for the mastering of the discipline
Lecture	Auditorium for lectures equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations.	Academic Activity Type – Lecture/Seminars/Computer Lab/Self-studies Classroom equipped with a set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), Skype
Seminar	Auditorium for conducting seminars, group and individual consultations, assessment control and intermediate certification, equipped with a set of furniture and technical means for multimedia presentations.	Set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector, laptop, projection screen, stable wireless Internet connection. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release)
Self-study	Auditorium for self-study (can be used for seminars and student consultations), equipped with set of furniture and computers with access to the virtual materials.	Set of furniture; technical support including Internet access. Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release)

7. RECOMMENDED SOURCES for COURSE STUDIES

Main sources:

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

Optional reading sources

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

Internet (based) sources:

1. Electronic libraries with access for RUDN students:
 - RUDN Electronic Library – RUDN EL <http://lib.rudn.ru/MegaPro/Web>
 - University Electronic Library» <http://www.biblioclub.ru>
 - <http://www.biblio-online.ru>
 - Student library (consult) www.studentlibrary.ru
 - Lan <http://e.lanbook.com/>

- Trinity Bridge

2. Databases and search engines:

- electronic fund of legal and normative-technical documentation
<http://docs.cntd.ru/>

- Yandex search engine <https://www.yandex.ru/>

- Google search engine <https://www.google.ru/>

- abstract database SCOPUS

<http://www.elsevierscience.ru/products/scopus/>

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

1. Guidelines for the implementation and completion of self-study and assessment - <https://esystem.rudn.ru/course/view.php?id=6574>

* - all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the course section in our virtual education website TUIS!

8. EVALUATION TOOLKIT AND GRADE SYSTEM FOR ASSESSMENT

Evaluation and grading system* for the course are indicated and uploaded in our virtual education website TUIS - <https://esystem.rudn.ru/course/view.php?id=6574>

* - Evaluation and grading system are based on the relevant local normative act of the Peoples' Friendship University of Russia.

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