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

### **Institute of Medicine**

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

## **COURSE SYLLABUS**

### **Infectious Diseases**

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course title

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

### **31.05.01 General Medicine**

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field of studies / speciality code and title

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

### **General Medicine**

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higher education programme profile/specialisation title

**2022-2023**

## 1. COURSE GOAL(s)

The goal of the course “Infectious Diseases” is to increase the knowledge of infectious diseases: A general practitioner should be able to identify or suspect an infectious disease, make a preliminary diagnosis, conduct a complex of diagnostic, medical and preventive measures at the pre-hospital stage and hospital stage, carry out follow-up and rehabilitation, monitor contagious individuals, and follow up patients after recovery.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “Infectious Diseases” aimed at the development of the following competences /competences in part: GC-1. (GC-1.1., GC-1.2.); SPC-5. (SPC-5.2., SPC-5.6., SPC-5.7., SPC-5.8., SPC-5.9., SPC-5.11).

*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-1.	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	GC-1.1. Analyzes scientific and technical literature and regulatory documentation of medical organizations.
		GC-1.2. Critically evaluates the credibility of information sources, works with conflicting information from different sources.
SPC-5.	Capable of carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary and hygienic education of the population	SPC-5.2. Able to organize and control the immunoprophylaxis of infectious diseases in the adult population in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care
		SPC-5.6. Capable of monitoring compliance with preventive measures
		SPC-5.7. Able to determine medical indications for the introduction of restrictive measures (quarantine) and indications for referral to a specialist doctor in the event of infectious (parasitic) diseases

Competence code	Competence descriptor	Competence formation indicators (within this course)
		SPC-5.8. Able to issue and send to the territorial body of the Federal Service for Supervision of Consumer Rights Protection and Human Welfare an emergency notification in case of detection of an infectious or occupational disease.
		SPC-5.9. Able to carry out epidemic measures in the event of a focus of infection, including quarantine measures in case of detection of highly contagious (quarantine) infectious diseases
		SPC-5.11. 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*
GC-1.	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	Biology, Immunology, Pathophysiology, Hygiene	Internal medicine, Phthisiology
SPC-5.	Capable of carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary and hygienic education of the	Histology, Embryology, Cytology, Microbiology, Virology	Advanced Course in Internal Medicine, Clinical pharmacology,

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
	population		

\* 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” is 9 credits (324 academic hours).

Table 4.1. Task according to the period of study for full-time education

Type of academic activities	Total academic hours	Semesters/training modules	
		9	10
<i>Contact academic hours</i>	<b>228</b>	<b>118</b>	<b>110</b>
including:			
Lectures (LC)	2	2	-
Lab work (LW)	-	-	-
Seminars (workshops/tutorials) (S)	226	116	110
<i>Self-studies</i>	52	25	27
<i>Evaluation and assessment (exam/passing/failing grade)</i>	44	12	32
<b>Course workload</b>	academic hours	<b>324</b>	
	credits	<b>9</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
<b>Module 1</b> Introduction to infectious diseases	<b>Topic 1.1.</b> The doctrine of the general pathology of infectious diseases.	<b>LC</b>
	<b>Topic 1.2.</b> Organization of care for infectious patients	<b>LC</b>
<b>Module 2</b> Air borne diseases	<b>Topic 2.1.</b> Influenza and other respiratory viruses	<b>S</b>
	<b>Topic 2.2.</b> Meningococcal diseases.	<b>S</b>
	<b>Topic 2.3.</b> Diphtheria and infectious mononucleosis	<b>S</b>
	<b>Topic 2.4.</b> Legionella .	<b>S</b>
	<b>Topic 2.5.</b> Mycoplasmosis.	<b>S</b>
	<b>Topic 2.6.</b> Herpes viruses	<b>S</b>
<b>Module 3</b> Intestinal infections	<b>Topic 3.1</b> Enteric fever	<b>S</b>
	<b>Topic 3.2</b> Bacillary and amebic dysentery.	<b>S</b>
	<b>Topic 3.3</b> Cholera	<b>S</b>
	<b>Topic 3.4</b> Food poisoning, non typhoidal	<b>S</b>

Course module title	Course module contents (topics)	Academic activities types
	salmonella, viral gastroenteritis	
	<b>Topic 3.5</b> Yersinosis	<b>S</b>
	<b>Topic 3.6</b> Enteral transmitted hepatitis	<b>S</b>
	<b>Topic 3.7</b> Enteroviruses	<b>S</b>
<b>Module 4</b> Blood borne diseases	<b>Topic 4.1</b> Malaria	<b>S</b>
	<b>Topic 4.2</b> Lyme's diseases	<b>S</b>
<b>Module 5</b> Skin-related infections.	<b>Topic 5.1</b> Parenteral hepatitis	<b>S</b>
	<b>Topic 5.2</b> HIV infection.	<b>S</b>
	<b>Topic 5.3</b> Erysipelas	<b>S</b>
<b>Module 6</b> Zoonosis	<b>Topic 6.1</b> Plague Tularemia.	<b>S</b>
	<b>Topic 6.2</b> Hemorrhagic fever, Anthrax, Tetanus, Rabies	<b>S</b>
	<b>Topic 6.3</b> Brucellosis, Chlamydial infections	<b>S</b>
	<b>Topic 6.4</b> Ornithosis.	<b>S</b>
	<b>Topic 6.5</b> Leptospirosis	<b>S</b>
	<b>Tema 6.6</b> Trypanosomiasis. Leshmaniosis	<b>S</b>
<b>Module 7</b> Helminthiases	<b>Topic 7.1</b> Introduction to helminthology	<b>S</b>
	<b>Topic 7.2</b> Nematodoses	<b>S</b>
	<b>Topic 7.3</b> Cestodoses	<b>S</b>
	<b>Topic 7.4</b> Trematodose	<b>S</b>
<b>Module 8</b> Syndrome diagnosis. Emergency conditions in infectious diseases.	<b>Topic 8.1</b> Differential diagnosis of jaundice.	<b>S</b>
	<b>Topic 8.2</b> Differential diagnosis of diarrhea	<b>S</b>
	<b>Topic 8.3</b> Meningococcal infections	<b>S</b>
	<b>Topic 8.4</b> Differential diagnosis of rashes.	<b>S</b>
	<b>Topic 8.5</b> Critical cases in infectious diseases. Septic and Hypovolemic shock. Cerebral oedema	<b>S</b>

\* - 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	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

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
		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-studies	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

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

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

1. Harrison's infectious diseases 3rd edition by Dennis Kasper and Anthony S Fauci
2. Essentials of Clinical Infectious Diseases by William Floyd Wright.
3. Medical Microbiology and Infection at a Glance Fourth edition Stephen H. Gillespie Kathleen B. Bamford.
4. Infectious diseases: textbook / Yushchuk N. D., Vengerov Yu. Ya. - Moscow: GEOTAR-Media, 2020. - 464 p. - ISBN 978-5-9704-5504-3.
5. Essential Tuberculosis 1st ed. 2021 Edition Giovanni Battista Migliori (Editor), Mario C. Raviglione.
6. Infectious Diseases, 2-Volume Set 4th Edition. Authors: Jonathan Cohen William Powderly Steven Opal. Published Date: 21st July 2016
7. Human Parasites: Diagnosis, Treatment, Prevention Heinz Mehlhorn
8. Infectious and Tropical Diseases: A Handbook...Tao Sheng Kwan-Gett, Charles Kemp

9. Harrison's Principles of Internal Medicine, 19th Edition Textbook

*Additional readings:*

1. Oxford Handbook of Infectious Diseases and Microbiology by Estee Torok , Ed Moran
2. Paniker's Textbook of Medical Parasitology C. K. Jayaram, M.D. Paniker, Sougata, M.D. Ghosh
3. Infectious Diseases in Critical Care Medicine...Burke A. Cunha
4. Infectious Disease Flashcards: Julie Harless
5. Microbial Diseases! All Parts Combined!Philip Carey
6. Infectious Diseases A Clinical Short Course by Frederick S Southwick
7. Treatment and Prevention of Malaria: Antimalarial Drug Chemistry, Action and Use by Sanjeev Krishna
8. Johns Hopkins HIV Guide 2012
9. Understanding Hepatitis James L. Achord, M.D

*Course information resources:*

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](http://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/>

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

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

\* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

**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-1. (GC-1.1., GC-1.2.); SPC-5. (SPC-5.2., SPC-5.6., SPC-5.7., SPC-5.8., SPC-5.9., SPC-5.11.) 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).  
regulatory act of the RUDN

### **DEVELOPERS:**

Associate Professor-  
Department of Infectious  
Diseases, Epidemiology and  
Phthysiology

position, department

S.L. Voznesenskiy

signature

name and surname

Assistant Professor-  
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Phthysiology

position, department

K. C. Emerole

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name and surname

### **HEAD OF DEPARTMENT:**

Department of Infectious  
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Phthysiology

name of department

G.M. Kozhevnikova

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### **HEAD OF THE HIGHER EDUCATION PROGRAM(ME):**

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Academic Affairs

position, department

I. V. Radysh

signature

name and surname