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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 programme developer

## **COURSE SYLLABUS**

**Oncology, Radiation Therapy**

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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

2023-2024

## 1. COURSE GOAL(s)

The goal of the course “Oncology, Radiation Therapy” is to equip students with the knowledge of theoretical and practical training of doctors in modern diagnostics and treatment of oncological diseases.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “Oncology, Radiation Therapy” is aimed at the development of the following competences /competences in part: GPC-4, GPC-10, PC-2, PC-6.

*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>
GPC-4	A student is able to use the approved medical diagnostic devices, as well as to conduct examinations of the patient in order to establish a diagnosis	GPC-4.1. Able to use medical devices in accordance with the current rules of medical care provision, clinical recommendations and treatment protocols
		GPC-4.2. Able to evaluate the effectiveness and safety of the use of medical devices
		GPC-4.3. A student has mastered the technique of performing typical medical manipulations using the approved medical devices
GPC-10	Able to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security	GPC -10.1. Is able to use modern information and communication tools and technologies in professional activities
		GPC -10 Knows how to comply with the rules of information security in professional activities
		GPC -10.3. Is able to use information and communication technologies, including general and special purpose application software in solving professional tasks
PC-2	Capable of conducting a patient examination in order to establish a diagnosis	PC -2.1. Has the skills of getting information on complaints, history of the patient's life and illness, as well as conducting a complete physical examination of the patient (visual examination, palpation, percussion, auscultation)
		PC -2.2. Able to formulate a preliminary diagnosis and make a plan of laboratory and instrumental examinations of the patient
		PC -2.3. Able to refer the patient to laboratory examination in the presence of medical

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p>indications in accordance with the current practice of the provision of medical care, clinical recommendations (treatment protocols) and standards of medical care</p> <p>PC -2.4. Able to refer the patient to instrumental methods of examination when indicated in accordance with the current practice of the provision of medical care, clinical recommendations (treatment protocols) and standards of medical care</p> <p>PC -2.5. Able to refer the patient to medical specialists when indicated in accordance with the current practice of the provision of medical care, clinical recommendations (treatment protocols) and standards of medical care</p> <p>PC -2.6. Able to refer the patient to be treated in a hospital or day-care unit when indicated in accordance with the current practice of the provision of medical care, clinical recommendations (treatment protocols) and standards of medical care</p> <p>PC -2.7. Able to carry out differential diagnosis with other diseases/conditions, including urgent ones, as well as to establish a diagnosis taking into account the current international statistical classification of diseases and health-related problems (ICD)</p>
PC -6	Capable of maintaining medical records and organizing the activities of the subordinated nursing personnel	<p>PC -6.1. He is able make a work plan and a report on his work, issue a passport of a medical (therapeutic) site</p> <p>PC -6.2. It is able to analyze the indicators of morbidity, disability and mortality to characterize the health of the attached population</p> <p>PC -6.3. Is able to keep medical records, including in electronic form</p> <p>PC -6.4. Is able to monitor the performance of official duties by a district nurse and other subordinate medical workers</p> <p>PC -6.5. Is able to provide internal quality control and safety of medical activities within the scope of official duties</p>

### 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>
GPC-4	Able to use devices according to medical care rules, as well as to conduct examinations of the patient in order to establish a diagnosis	General surgery; Physics; Practice: Introductory practice on obtaining primary professional skills: patient's care; Practice for obtaining primary professional skills: assistant of junior medical personnel; Practice of diagnostic profile: assistant of the ward nurse	Neurology, medical genetics, neurosurgery; Obstetrics and gynecology; Medical rehabilitation; Traumatology, orthopedics; Endocrinology; Anesthesiology, resuscitation, intensive care; Reproductive health; Maxillofacial surgery; Emergency Medical Manipulation Practice (Simulation Center)
GPC - 10	Able to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security	Mathematics; Medical Informatics; Biochemistry; Pharmacology; General surgery; Biostatistics	Medical rehabilitation; Occupational diseases; Anesthesiology, intensive care, intensive care; Telemedicine
PC-2	Capable of conducting a patient examination in order to establish a diagnosis	General surgery; Pathophysiology, clinical pathophysiology	Dermatovenerology; Neurology, medical genetics, neurosurgery; Obstetrics and gynecology; Otorhinolaryngology; Ophthalmology; Occupational diseases; Hospital therapy; Polyclinic therapy; Hospital surgery,

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
			pediatric surgery; Pediatrics; Traumatology, orthopedics; Endocrinology; Anesthesiology, intensive care, intensive care; Maxillofacial surgery; Reproductive health; Dentistry; Psychiatry, medical psychology; Current issues of neonatology; Fundamentals of child nutrition; Practice of surgical profile: assistant surgeon; Practice of obstetric and gynecological profile: assistant gynecologist; Assistant physician of the therapeutic profile: assistant internal diseases physician; General medical practice: assistant to an outpatient clinic doctor; Practice of obstetric and gynecological profile: assistant obstetrician
PC-6	Capable of maintaining medical records and organizing the activities of the subordinated nursing personnel	Propaedeutics of internal diseases; Immunology; General surgery	Public health and healthcare, healthcare economics; Polyclinic therapy; Allergology; Maxillofacial surgery; Faculty Surgery; Ophthalmology; Practice of surgical profile: assistant surgeon; General medical practice: assistant to an outpatient clinic doctor

\* 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 “Oncology, Radiation Therapy” 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			
		12			

<i>Contact academic hours</i>		<b>85</b>	<b>85</b>			
including:						
Lectures (LC)		85	85			
Lab work (LW)						
Seminars (workshops/tutorials) (S)						
<i>Self-studies</i>		<b>23</b>	<b>23</b>			
<i>Evaluation and assessment (exam/passing/failing grade)</i>						
<b>Course workload</b>	academic hours	108	108			
	credits	3	3			

## 5. COURSE CONTENTS

*Table 5.1. Course contents and academic activities types*

<b>Course module title</b>	<b>Course module contents (topics)</b>	<b>Academic activities types</b>
Module 1 Lung cancer	Statistics, epidemiology and modern diagnostics of lung cancer. Surgical, combined and complex treatment of lung cancer. Rehabilitation of lung cancer patients after treatment, monitoring and treatment of disease recurrence	Lec/Lab
Module 2 Stomach cancer	Statistics, epidemiology and modern diagnostics of stomach cancer. Surgical, combined and complex treatment of gastric cancer. Rehabilitation of patients with gastric cancer after treatment, monitoring and treatment of disease recurrence	Lec/Lab
Module 3 Breast cancer	Statistics, epidemiology and modern diagnostics of breast cancer. Surgical, combined and complex treatment of breast cancer. Rehabilitation of patients with breast cancer after treatment, monitoring and treatment of disease recurrence	Lec/Lab
Module 4 Colorectal cancer	Statistics, epidemiology and modern diagnostics of colon cancer. Surgical, combined and complex treatment of colon cancer. Rehabilitation of colon cancer patients after treatment, monitoring and treatment of disease recurrence	Lec/Lab
Module 5 Skin cancer, melanoma	Statistics, epidemiology and modern diagnostics of skin cancer and melanoma. Surgical, radiation, laser treatment of skin cancer and melanoma.	Lec/Lab

	Rehabilitation of patients with skin cancer and melanoma after special treatment, monitoring and treatment of disease recurrence	
Module 6 Esophageal cancer	Statistics, epidemiology, and current diagnosis of esophageal cancer. Surgical, combined and complex treatment of cancer of the esophagus. Rehabilitation of patients with cancer of the esophagus after treatment, monitoring and treatment of relapses	Lec/Lab
Module 7 Thyroid cancer	Statistics and epidemiology current diagnosis of thyroid cancer. Surgical, combined treatment of thyroid cancer. Rehabilitation of patients with thyroid cancer after treatment, monitoring and treatment of relapses	Lec/Lab
Module 8 Lymphoma	Hodgkin's lymphoma. Statistics, epidemiology and modern diagnosis of malignant lymphomas. Modern chemoradiotherapy of malignant lymphomas. Rehabilitation of patients with malignant lymphoma after treatment, monitoring and treatment of relapses	Lec/Lab
Module 9 Pancreatobiliary cancer	Statistics, epidemiology and modern diagnosis of pancreatic cancer, extrahepatic bile ducts and a large duodenal nipple. Surgical, combined and complex treatment. Rehabilitation of patients after treatment, monitoring and treatment of relapses	Lec/Lab
Module 10 Liver cancer	Statistics, epidemiology and modern diagnosis of liver cancer. Surgical and complex treatment of liver cancer. Rehabilitation of patients with liver cancer after treatment, monitoring and treatment of relapses	Lec/Lab
Module 11 Radiation therapy of malignant tumors	Modern radiation therapy of malignant neoplasms. The types of radiation. Their characteristics. Methods of radiation therapy. Combined and complex radiotherapy. Complications of radiotherapy	Lec/Lab
Module 12 Drug therapy of malignant tumors.	Modern drug therapy. Groups of chemotherapy drugs, enzymes, vaccines, hormones. Private chemotherapy for various human malignant diseases. Complications.	Lec/Lab

\* - 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	Microsoft products (OS, office package) (Subscription Enrollment

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	technical means of multimedia presentations.	for Education Solutions (EES) No. 56278518 dated 23/04/2019) Guarantor (Agreement No. 13A/46/2018 dated 02/04/2018) Consultant Plus (Information Support Agreement dated 01/09/2013) Regt number of the central office-03-207-7474 from September.2013
Lab work	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	Microsoft products (OS, office package) (Subscription Enrollment for Education Solutions (EES) No. 56278518 dated 23/04/2019) Guarantor (Agreement No. 13A/46/2018 dated 02/04/2018) Consultant Plus (Information Support Agreement dated 01/09/2013) Regt number of the central office-03-207-7474 from September.2013
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and interim certification, equipped with a set of specialized furniture and multimedia presentation equipment.	Microsoft products (OS, office package) (Subscription Enrollment for Education Solutions (EES) No. 56278518 dated 23/04/2019) Guarantor (Agreement No. 13A/46/2018 dated 02/04/2018) Consultant Plus (Information Support Agreement dated 01/09/2013) Regt number of the central office-03-207-7474 from September.2013



Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Computer lab	A computer classroom for conducting classes, group and individual consultations, ongoing monitoring and interim certification, equipped with personal computers (in the amount of 3 pcs.), a blackboard (screen) and multimedia presentation equipment.	Microsoft products (OS, office package) (Subscription Enrollment for Education Solutions (EES) No. 56278518 dated 23/04/2019) Guarantor (Agreement No. 13A/46/2018 dated 02/04/2018) Consultant Plus (Information Support Agreement dated 01/09/2013) Regt number of the central office-03-207-7474 from September.2013
Self-studies	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to Electronic Informational-Educational Media.	Microsoft products (OS, office package) (Subscription Enrollment for Education Solutions (EES) No. 56278518 dated 23/04/2019) Guarantor (Agreement No. 13A/46/2018 dated 02/04/2018) Consultant Plus (Information Support Agreement dated 01/09/2013) Regt number of the central office-03-207-7474 from September.2013

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

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

1. Oncology (textbook for medical schools)  
Edited by S. B. Peterson of Moscow. GOATER-Media 2017,-288C. ISBN 978-5-9704-4070-0
2. Guide to practical training in Oncology , sh X Ghanaians,2007,Moscow, MIA.
3. Manual of Oncology, edited by V. I. Chissov. 2008 MIA, 835 p. ISBN 978-5-8948-1676-4
4. General questions of clinical Oncology. Moscow, peoples ' friendship University textbook. N. In. Kharchenko and co-authors, 2018 41C. ISBN 978-5-209-08360-3
5. Oncology .Tutorial. V. G. Cherenkov. 2017. Heater Media ISBN 978-5-9704-4091-9
6. Radiation therapy (radiotherapy): the Textbook / Under the editorship of G. E. Trufanova Moscow. ISBN 978-5-9704-442—7 GEOTAR Media. 2018-208 S.

*Additional readings:*

1. Cancer of the stomach in questions and answers (textbook) Moscow., Peoples ' friendship University, 1999.
2. Esophageal cancer questions and answers (textbook) Moscow., Peoples ' friendship University, 1999
3. Breast cancer questions and answers (textbook) Moscow., PFUR, 2000.
4. Lung cancer questions and answers (textbook) Moscow., PFUR, 2007.
  
5. Thyroid cancer questions and answers (textbook) Moscow., People's friendship University, 2008.
  
6. Limfогranulomatoz in questions and answers (textbook) Moscow., People's friendship University, 2008.
7. Cancer of the skin. Melanoma questions and answers (textbook) Moscow., People's friendship University, 2008.
8. . Cancer of the pancreas, bile ducts and major duodenal nipple in questions and answers (textbook) Moscow., People's friendship University, 2009.
9. Colon cancer questions and answers (textbook) Moscow., PFUR, 2011.
10. . Basic principles of chemotherapy of malignant neoplasms (textbook) Moscow, PFUR, 2014. ISBN 978-5-209-05917-2

*Internet sources*

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:
  - RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>
  - EL "University Library Online" <http://www.biblioclub.ru>
  - EL "Yurayt" <http://www.biblio-online.ru>
  - EL "Student Consultant" [www.studentlibrary.ru](http://www.studentlibrary.ru)
  - EL "Lan" <http://e.lanbook.com/>
  - EL "Trinity Bridge"
  - .....
  
2. Databases and search engines:
  - electronic foundation of legal and normative-technical documentation <http://docs.cntd.ru/>
  - Yandex search engine [https:// www .yandex.ru/](https://www.yandex.ru/)
  - Google search engine <https://www.google.ru/>
  - 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 “Oncology and Radiation Therapy”

\* 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 (GPC-4, GPC-10, PC-2, PC -6) 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		Kunda M.A
_____	_____	_____
position, department	signature	name and surname
Associate Professor		G.M.Zapirov
_____	_____	_____
position, department	signature	name and surname
Head of the Department of Oncology and Roentgen- Radiology		A.D. Kaprin
_____	_____	_____
position, department	signature	name and surname

### HEAD OF EDUCATIONAL DEPARTMENT:

Department of Oncology and Roentgen-Radiology		A.D. Kaprin
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name of department	signature	name and surname

### HEAD OF HIGHER EDUCATION PROGRAMME:

First Deputy Director of MI for Academic Affairs		Iv.V.Radysh
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position, department	signature	name and surname