

**Annotation of the work program of the discipline
" Radiation Therapy "**

The main professional educational program of higher education is a specialist's program in specialty 31.05.01 General Medicine , approved on 24/05/2023.

Full-time form of education

Term of development of OPOP VO: 6 years

Department: Radiation Diagnostics and Radiation Therapy with Oncology

In developing an educational training program, the discipline is based on:

1. Federal State Educational Standard of Higher Education on specialty 31.05.01 General Medicine, approved by the Ministry of Education and Science of the Russian Federation on February 9, 2016 №95

2. Academic plan on specialty 31.05.01 General Medicine, approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia on May 24, 2023, Protocol No. 8

The work program of the discipline was approved at a meeting of the Department of Radiation Diagnostics and Radiation Therapy with Oncology on May 21, 2023, Protocol No. 10.

The work program of the discipline was approved at a meeting of the central coordinating educational and methodological council on May 23, 2023, Protocol No. 5.

The work program of the discipline was approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia on May 24, 2023, Protocol No. 8

The purpose of the discipline: is mastering the discipline, participation in the formation of general professional (OPK-1,4,8) and professional (PC-1, 2, 5, 6) competencies in the field of knowledge in radiation therapy.

2. The place of discipline in the structure of the OBEP VO:

The discipline refers to the disciplines of the basic part of block 1 of the Federal State Educational Standard of Higher Education in the specialty " **Medicine** ".

3. Requirements for the results of mastering the discipline:

The teaching of this discipline is based on the following types of professional activity:

- prophylactic.
- diagnostic.
- research.
- organizational and managerial;
- research.

The process of studying the discipline is aimed at the formation and development of competencies:

No. p / p	Competency code	The content of the competence (or part of it)
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1	OPK-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities
	OPK-4	Able to use medical devices prescribed by the order of medical care, as well as conduct examinations of the patient in order to establish a diagnosis
	OPK-8	readiness for the medical use of drugs and other substances and their combinations in solving professional problems
2.	PC-1	Providing medical care to a patient in urgent or emergency forms
3.	PC-2	Examination of the patient in order to establish a diagnosis
4.	PC-5	Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary and hygienic education of the population
5	PC-6	readiness for the medical use of drugs and other substances and their combinations in solving professional problems

As a result of studying the discipline, the student must
: the student must have a holistic view of radiation therapy as an independent scientific and practical discipline.

It is necessary to form a basic worldview among students, which includes:

- familiarization of students with the main provisions of radiation therapy;
- familiarization with the peculiarities of the organization of oncological care for the population of Russia;
- study of the main methods of radiation therapy;
- Familiarization with modern principles of radiation therapy.

In the course of achieving the goal, the following tasks are solved :

-training in the course of radiation therapy are: determination of indications and contraindications to radiation diagnostics, knowledge of the advantages of radiation diagnostic methods, rational choice of radiation therapy methods.

-methods of protecting patients and staff (leaded aprons, diapers

4. The total labor intensity of the discipline: is 2 credit units (72 hours).

5. Semester: 12

6. The main sections of the discipline:

Topic 1. Physical basis of radiation therapy. Radiobiological bases of radiation therapy of malignant and non-tumor diseases.

Topic 2. Methods of radiation therapy. Technical support of radiation therapy.

Topic 3 Radiation therapy planning. Prebeam period. Beam period. Reactions of the body to therapeutic radiation exposure. Post-beam period. Radiation protection of organs and tissues during radiation therapy.

Topic 4 Fundamentals of radiation therapy of malignant tumors of the maxillofacial region. **Topic 5** Fundamentals of radiation therapy of malignant tumors of the chest and abdominal cavities.

Topic 6 Fundamentals of radiation therapy of malignant tumors of the central nervous system, thyroid gland, retroperitoneal space, skeletal system,

Topic 7. Final lesson-test.

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