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Khanty-Mansiysk Autonomous Okrug-Yugra
 "Surgut State University"

Approved by

Deputy Rector for Academic Affairs

_____ E.V. Konovalova

“11” June 2026, Record No. 5

Oncology, radiation therapy Syllabus

Department	Surgical diseases	
Curriculum	s310501-ЛечДелоИн -26-6.plx Specialty 31.05.01 General Medicine	
Qualification	General Practitioner	
Form of education	Full-time	
Total (in credits)	3	
Total academic hours	108	Control:
including:		Exam 11 term
Contact	64	
Self-study	17	

Course outline in terms

Academic year (Term)	12 (6.2)		Total	
	16 5/6			
Type of classes	Cur	Syl	Cur	Syl
Lectures	16	16	16	16
Practical	48	48	48	48
Contact work	64	64	64	64
Self-study	17	17	17	17
Total	108	108	108	108

The Syllabus is compiled by:
Doctor of Medical Sciences, Professor, Parsadanyan A. M. _____

The Syllabus

Oncology, radiation therapy

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of Higher Education in the specialty 31.05.01 General Medicine (Order of the Ministry of Education and Science of Russian Federation on 12.08.2020, No. 988)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, “11” 06 2026, Record No. 5

The Syllabus was approved by the department

Surgical diseases

Head of the Department, Doctor of Medical Sciences, Professor Darwin V.V.

1. COURSE OBJECTIVES	
1.1	The aim of the course "Oncology, radiation therapy" is to acquire knowledge about the etiology, pathogenesis and early diagnosis of oncological diseases, as well as tactics for the treatment and prevention of tumor diseases and the formation of clinical thinking and professional competencies necessary within the framework of professional activities.
2. COURSE OVERVIEW	
Course code (in curriculum)	B1.B
2.1	Assumed background:
2.1.1	Hospital surgery, pediatric surgery
2.1.2	Pathophysiological bases of emergency conditions in the clinic of internal diseases
2.1.3	Pathological anatomy, clinical pathological anatomy
2.1.4	Pharmacology
2.2	Post requisite courses and practice:
2.2.1	Preparation for and passing the state exam
2.2.2	Outpatient therapy
2.2.3	Instrumental research methods
2.2.4	Clinical surgery
3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)	
<p>PC-1.1: Demonstrates knowledge of etiology, pathogenesis, diagnostic criteria (clinical – subjective, physical, laboratory, instrumental), identifies in the patient the main pathological conditions, symptoms, syndromes of diseases, and diagnoses nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, 10th – 11th revisions.</p> <p>PC-1.2: Performs differential diagnosis, evaluates the prognosis (short-, medium- and long-term) of the course of the disease, identifies acute complications and complications of chronic diseases.</p> <p>PC-3.1: Examines the patient (collects and analyzes the patient’s complaints, medical history data, physical examination findings, determines the necessary examination plan, evaluates parameters of laboratory, instrumental, pathological and other research methods for the purpose of diagnosing diseases, evaluates the prognosis (short-, medium-, long-term) of its course and outcomes.</p> <p>PC-3.2: Formulates a preliminary and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems, 10th – 11th revisions, and current clinical classifications.</p> <p>PC-3.3: Performs early and differential diagnosis of diseases.</p> <p>PC-3.4: Carries out routing and management of patients based on current legislation (standards, procedures for medical care, clinical guidelines).</p> <p>PC-5.1: Demonstrates knowledge of mechanisms of action, methods of application of pharmacotherapy, therapeutic nutrition, medical devices and methods of non-drug treatment, palliative and personalized medical care.</p> <p>PC-5.2: Provides treatment to various categories of patients with diseases in outpatient settings, inpatient settings and centers of high-tech medical care (HTMC) using medications, medical devices and therapeutic nutrition, taking into account the clinical picture, in accordance with current procedures, standards of medical care, clinical guidelines (treatment protocols).</p> <p>PC-5.4: Demonstrates knowledge of adverse effects of medications, methods of their administration, knowledge of the duration of their use, and evaluates the effectiveness and safety of ongoing pharmacotherapy, therapeutic nutrition and the use of non-drug treatment, therapeutic nutrition, and palliative medical care.</p> <p>PC-8.2: Maintains medical documentation, including in electronic form.</p>	

By the end of the course students must:

3.1	Know:
3.1.1	- the main signs of oncological diseases (their etiology, pathogenesis, diagnostic criteria (clinical - subjective, physical, laboratory, instrumental));
3.1.2	- modern clinical classifications and diagnostic criteria for diagnosing cancer, principles for establishing the stage of the disease;
3.1.3	- the scope of diagnostic measures carried out when there is a suspicion of cancer in order to clarify the diagnosis;
3.1.4	- tactics for conducting differential diagnosis of the most common pathologies with clinically similar diseases;

3.1.5	- treatment tactics for various categories of patients with diseases in outpatient settings, in hospitals and high-tech medical care (HTMC) centers using drugs, medical devices and therapeutic nutrition, taking into account the clinical picture, in accordance with current procedures, standards for the provision of medical care, clinical recommendations (treatment protocols);
3.1.6	- regulatory acts in compliance with laws on confidential information for the purpose of psychological adaptation in society after treatment;
3.1.7	- tactics of primary and secondary prevention of oncological diseases.
3.2	Be able to:
3.2.1	- analyze the patterns of the course of the pathological process of the disease, using fundamental knowledge, think clinically;
3.2.2	- create diagnostic and tactical algorithms, be able to analyze clinical symptoms of diseases, conduct differential diagnosis, determine treatment tactics (taking into account the side effects of drugs, methods of their administration, knowledge of the duration of their use and assess the effectiveness and safety of the drug therapy, therapeutic nutrition and the use of non-drug treatment, therapeutic nutrition of palliative medical care);
3.2.3	- analyze the psychological state of patients;
3.2.4	- build relationships with the patient and relatives aimed at creating the most favorable psychological comfort for the most successful treatment;
3.2.5	- apply knowledge of regulatory acts in compliance with laws on confidential information for the purpose of psychological adaptation in society after treatment;
3.2.6	- collect anamnesis, analyze the nature of complaints (organ dysfunction, pain syndrome, pathological discharge, changes in general condition, etc.), conduct a physical examination of the cancer patient;
3.2.7	- make a plan for clinical and instrumental examination of suspected malignant tumors, formulate and justify a clinical diagnosis, form a group of people at increased risk of developing a malignant tumor, conduct an analysis of the reasons for late diagnosis of cancer;
3.2.8	- conduct preventive measures with the population to prevent oncological diseases;
3.2.9	- analyze the patterns of functioning of various organs and systems in various diseases and pathological processes, using the algorithm for making a diagnosis (primary, concomitant, complications) in accordance with the International Statistical Classification of Diseases and Related Health Problems, 10th – 11th revisions and current clinical classifications.

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)

Class Code	Topics/Class type	Term / Academic year	Academic hours	Competences	Literature	Notes
	Section 1. Term 12.					
1.1	Modern problems of oncology. Organization of oncological service in Russia. Malignant tumors. Pathogenesis of clinical symptoms. Principles of diagnostics and treatment. /Lec/	11	2	PC-1 GPC-9 PC-5 PC-6 PC-8	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.2	Modern problems of oncology. Organization of oncological service in Russia. Malignant tumors. /Pr/	11	4	PC-1 GPC-9 PC-5 PC-6 PC-8	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	

1.3	Pathogenesis of clinical symptoms. Principles of diagnostics and treatment /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.4	General principles of diagnostics and treatment in oncology. "Alarm signals" /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6	
1.5	Skin cancer, melanoma. Tumors of the head and neck. /Lec/	11	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.1 L2.3 L2.5 L2.6L3.1 L3.2 E1 E2 E3 E4 E5 E6	
1.6	Skin cancer, melanoma. Tumors of the head and neck. /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.1 L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.7	Skin cancer, melanoma. Head and neck tumors. /Self-study/	11	1	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.1 L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.8	Esophagus and stomach cancer. Colon and rectal cancer. /Lec/	11	2	PC-1.1, PC-1.2,	L1.1 L1.2 L1.3L2.3 L2.5 L2.6	

				PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	E1 E2 E3 E4 E5 E6	
1.9	Esophagus and stomach cancer /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.10	Esophagus and stomach cancer /Self-study/	11	1	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.11	Mastopathy and breast cancer. /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.12	Mastopathy and breast cancer. /Self-study/	11	1	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.4 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.13	Lung cancer. /Lec/	11	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4,	L1.1 L1.2 L1.3L2.2 L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	

				PC-5.1, PC-5.2, PC-5.4, PC-8.2		
1.14	Lung cancer. /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	

1.15	Lung cancer. /Self-study/	11	1	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.16	Colon and rectal cancer. /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.17	Colon and rectal cancer. /Self-study/	11	1	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.18	Liver and pancreatic cancer glands. /Lec/	11	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.19	Liver and pancreatic cancer glands. /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.20	Liver and pancreatic cancer glands. /Self-study/	11	1	PC-1.1, PC-1.2,	L1.1 L1.2 L1.3L2.3 L2.5 L2.6	

				PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	E1 E2 E3 E4 E5 E6	
1.21	Bone and soft tissue sarcomas. /Lec/	11	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.22	Sarcomas of bones and soft tissues. /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.23	Sarcomas of bones and soft tissues. /Self-study/	11	1	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.24	Drug therapy for patients with malignant tumors. Radiation therapy of malignant tumors. Complications of radiation therapy /Lec/	11	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.25	Drug therapy for patients with malignant tumors. /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4,	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	

				PC-5.1, PC-5.2, PC-5.4, PC-8.2		
1.26	Complications of drug therapy for malignant tumors. /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6	
1.27	Drug therapy for patients with malignant tumors. /Self-study/	11	1	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	

1.28	Radiation therapy of malignant tumors. Complications of radiation therapy /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.29	Radiation therapy of malignant tumors. Complications of radiation therapy /Self- study/	11	1	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.30	Final lesson /Pr/	11	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6 E1 E2 E3 E4 E5 E6	
1.31	Final lesson. Solving situational problems /Pr/	11	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6	
1.32	/Control work/	11	0	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L1.2 L1.3L2.3 L2.5 L2.6	
1.33	Exam	11	27	PC-1.1, PC-1.2,		

				PC-3.1, PC-3.2, PC-3.3, PC-3.4, PC-5.1, PC-5.2, PC-5.4, PC-8.2		
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5. ASSESSMENT TOOLS				
5.1. Tests and tasks				
Supplement 1				
5.2. Assessment tools				
Supplement 1				
6. COURSE (MODULE) RESOURCES				
6.1. Recommended Literature				
6.1.1. Core				
	Authors	Title	Publish., year	Quantity
L1.1	Popova T. N., Zhandarova L. F., Barsukov V. Yu., Shmyleva O. A., Samsonov D. V., Plokhova E. Yu., Dugin Yu. P., Averyanova S. V., Orlova Yu. I.	Oncology. Complete reference book	Saratov: Nauchnaya kniga, 2019, electronic resource	1
L1.2	Yanushevich O. O., Duditskaya T. K., Kalinin M. R.	Oncology: a textbook for use in the educational process of educational organizations implementing higher education programs in the specialties 31.05.01 "General Medicine", 31.05.03 "Dentistry"	Moscow: Publishing group "GEOTAR-Media", 2019, electronic resource	1
L1.3	Peterson S.B.	Oncology: textbook	Moscow: GEOTAR-Media, 2018, electronic resource	1
6.1.2. Supplementary				
	Authors	Title	Publish., year	Quantity

L2.1	Lamotkin I. A.	Clinical dermatology-oncology	Moscow: Laboratory of knowledge"" (formerly ""BINOM. Laboratory of knowledge", 2015, electronic resource	1
L2.2		Lung Cancer: A Practical Guide	Moscow: GEOTAR-Media, 2017, electronic resource	1
L2.3	Davydov M.I., Gantsev Sh.Kh.	Oncology: oculyk: textbook	Moscow: GEOTAR-Media, 2018, electronic resource	1
L2.4	Gancev Sh.Kh.	Breast Cancer: A Practical Guide	Moscow: GEOTAR-Media, 2015, electronic resource	1
L2.5	Cherenkov V.G.	Oncology: textbook	Moscow: GEOTAR-Media, 2017, electronic resource	1
L2.6	Trufanov G.E.	Radiation Therapy (Radiotherapy): Textbook	Moscow: GEOTAR-Media, 2018, electronic resource	1
6.1.3. Methodical development				
	Authors	Title	Publish., year	Quantity
L3.1	Parsadanyan A. M., Murtuzaliev A. A., Stepanyan A. A., Harutyunyan L. M.	Skin melanoma: methodological recommendations and situational tasks for practical classes and tests	Surgut: Publishing center of Surgut State University, 2020, electronic resource	1
L3.2	Parsadanyan A. M., Amiragyan D. M., Musaeva S. D., Stepanyan A. A.	Thyroid cancer: guidelines and test tasks for practical classes and tests	Surgut: Publishing center of Surgut State University, 2020, electronic resource	1
6.2. Internet resources				
E1	Medline			
E2	Russian medicine: articles, dissertations, books			
E3	Portal of Russian scientific journals (RSJ)			
E4	Central Scientific Medical Library (CSML)			
E5	The world's largest abstract and citation database			
E6	Eurasian Patent Information System (EAPATIS)			
6.3.1 Software				
6.3.1.1	Microsoft Operating Systems			
6.3.2 Information Referral systems				
6.3.2.1	http:// www.garant.ru Information and legal portal Garant.ru			
6.3.2.2	http://www.consultant.ru Reference and legal system Consultant Plus			
7. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE)				
7.1	A classroom for conducting lectures, practical classes, group and individual consultations, ongoing monitoring and midterm assessment No. UK-52/57 on the basis of the Khanty-Mansiysk Autonomous Okrug-Yugra State Budgetary Institution "Surgut District Clinical Hospital" is equipped with: a set of specialized educational furniture, a marker board.			
7.2	Technical teaching aids for presenting educational information: a set of (portable) multimedia equipment - laptop, projector, projection screen.			