

**MINISTRY OF HEALTH & EDUCATION OF KYRGYZ REPUBLIC**  
**OSH STATE UNIVERSITY**  
**INTERNATIONAL MEDICAL FACULTY**  
**DEPARTMENT OF OBSTETRICS, GYNECOLOGY AND SURGICAL DISCIPLINES**

**STUDENT TRAINING PROGRAM**

(Syllabus)

<b>Specialty</b>	<b>MEDICINE</b>	<b>Course code</b>	<b>560001</b>
<b>Language</b>	<b>English</b>	<b>Oncology, palliative medicine</b>	Oncology, palliative medicine
<b>Academic year</b>	<b>2025-2026</b>	<b>Total credits</b>	<b>4</b>
<b>Lecturer</b>	<b>Gulshat Matkasymova</b>	<b>Semester</b>	<b>10<sup>th</sup> semester</b>
<b>E-Mail</b>	<a href="mailto:mgulshat18@gmail.com">mgulshat18@gmail.com</a>	<b>Schedule according to program “OshGU Student”</b>	<b>Phone: +996555665 466</b>
<b>consultation (Time/room)</b>	<b>9.00-16.00</b>	<b>wednesday</b>	<b>Monueva 5 room.№408</b>
<b>Form of study (daytime/evening/distance learning)</b>	<b>Day time</b>	<b>Course type: compulsory</b>	<b>Compulsory</b>

Head of the educational program\_\_\_\_\_c.m.s Bugubaeva M. M.

Osh, 2026

**Characteristics of course:** Oncology is the study and treatment of cancer, including research, surgery, radiotherapy, and treatment with drugs, including chemotherapy.

**Aim of course:** at the end of course student should have Basic Scientific Principles, Basic Principles in the Management and Treatment of Malignant Diseases, Management and Treatment of Individual Cancers and their associated complication, Patient Education, Skills.

Pre requisites	<i>human anatomy, histology, normal physiology, pathological physiology, pathological anatomy, bioethics, microbiology, medical radiology, pharmacology, surgery, internal diseases, child diseases,</i>	
Post requisites	<i>internal diseases, child diseases, hospital surgery, neurosurgery, oncology, palliative care</i>	
Co-requisites		
Learning outcomes of the discipline		
By the end of course the student:		
CODE SR FOR GEP and its formulation	COMPETENCIES GEP	DUBLIN DESCRIPTORS
SR 7-Is able to apply basic knowledge in the field of diagnostic activities to solve professional problems	PC 15-is able to prescribe adequate treatment to patients in accordance with the diagnosis;	<b>Knowledge and understanding</b> have demonstrated knowledge and understanding of oncology, palliative medicine and mastery of the skills and methods of research associated with oncology, palliative medicine
SR8 – Is able to apply basic knowledge in the field of medical activity to solve professional problems	PC 17-is capable and ready to perform basic medical procedures for the most common diseases and conditions (in adults and children in outpatient and inpatient settings;	<b>Applying knowledge and understanding</b> can apply their knowledge and understanding, and problem solving abilities in new or unfamiliar environments with in broader (or multidisciplinary) contexts related to the oncology
SR11-Able to apply basic knowledge in the field of research activities to solve professional problems	PC 31- is capable and willing to analyze and publicly present medical information based on evidence-based medicine;	<b>Making judgements</b> have the ability to gather and interpret relevant data (usually within their field of study) to inform judgements that include reflection on relevant social, scientific or ethical issues <b>Communication Skills</b> Can communicate information, ideas, problems and solutions to both specialist and non specialist audiences <b>Learning skills</b> have developed those learning skills that are necessary for them to continue to undertake further study with a high degree of autonomy

### Evaluation map (M1+M2)

Discipline	credit	Classroom h	SIW	1-module (25 points)				2-module (25 points)			Exam (50 points)	
Oncology, palliative medicine	4	40%	60%	Classroom hours		SIW/ SIW under guidelines of teacher	BC (r)	Classroom hours		SIW/ SIW under guidelines of teacher	BC (r)	FC (E)
				lec	prac			lec	prac			
Hours	4	48	72	10	14	30/6		10	14	30/6		
points accumulation				4	4	8	9	4	4	8	9	
The results of module				(M=tcp.+r+s) till 25 / 25				(M=tcp.+r+s) till 25 / 25				50
				Rдоп. = M1 + M2 (30-50)								
Total				I = Rдоп. + E								100

### Course Topical Outlines of lecture

№	Topics	Hour	Evaluation			
			teaching methods	Evaluation tools		Total
1	Cancer biology: Molecular and genetic basis. Familial cancers and genetic testing. Screening and prevention Cancer diagnosis: Histopathology, cytology and tumour markers. Cancer diagnosis: staging and imaging.	2	Visual & multimedia Teaching	Quizziz	≥80% (4) 64–79% (3) 51-63% (2) <50% (1)	4
2	Ethics and professional development. Principles of cancer management. Principles of medical therapy, radiotherapy, immunotherapy Principles of cancer surgery. Principles of palliative care. CC 1	2	V&MT	Quizziz	≥80% (4) 64–79% (3) 51-63% (2) <50% (1)	4
3	Skin cancer. Head and neck cancer.	2	CBL	Self-assessment	Case understanding Diagnosis Management reflection	4
4	Lung cancer.	2	PBL	Self-assessment	understanding Investigation Management reflection	4
5	Breast cancer.	2	V&MT	Quizziz	≥80% (4) 64–79% (3) 51-63% (2)	4

					<50% (1)	
6	Oesophageal cancer. Gastric cancer.	2	CBL	Flashcard	Accurate Focused Recall-based Clinically relevant	4
7	Colorectal cancer. Pancreatic, gallbladder and liver cancers. Module 1	2	V&MT	Quizziz	≥80% (4) 64–79% (3) 51-63% (2) <50% (1)	4
8	Gynaecological cancers. Urogenital cancers. Cancers of male reproductive system.	2	V&MT	Self- assessment	≥80% (4) 64–79% (3) 51-63% (2) <50% (1)	4
9	Haematopoietic and lymphoid malignancies ( Leukemia, Lymphoma ) Soft tissue sarcomas. Bone tumours. Central nervous system tumours.	2	V&MT	Google- classroom	≥80% (4) 64–79% (3) 51-63% (2) <50% (1)	4
10	Childhood cancers. Module2	2	V&MT	Self- assessment	≥80% (4) 64–79% (3) 51-63% (2) <50% (1)	4
	<b>TOTAL</b>	<b>20h</b>				<b>4</b>

### Course Topical Outlines of practical classes

№	Topics	Hour	Evaluation			
			teaching methods	Evaluation tools	Evaluation criteria	Total
1	Cancer biology: Molecular and genetic basis. Familial cancers and genetic testing. Screening and prevention Cancer diagnosis: Histopathology, cytology and tumour markers.Cancer diagnosis: staging and imaging.	2	RBL  Express quizz	flashcards	Accurate Focused Recall-based Clinically relevant	4
2	Ethics and professional development. Principles of cancer management. Principles of medical therapy, radiotherapy,immunotherapy Principles of cancer surgery. Principles of palliative care.	2	TBL  E&IM	Peer- assessment	Content accuracy Clarity Clinical reasoning Feedback quality	4
3	Skin cancer. Head and neck cancer.	2	CBL	Self- assessment	Case understanding Diagnosis Management reflection	4

<b>4</b>	Lung cancer.	2	Case-based discussion	Assessment checklist	Case understanding Diagnosis Management reflection	4
<b>5</b>	Breast cancer.	2	PBL  RBL	Quizziz	≥80% (4) 64–79% (3) 51-63% (2) <50% (1)	4
<b>6</b>	Oesophageal cancer. Gastric cancer.	2	SBL	SP (Standart patient)	Case understanding Diagnosis Management reflection	4
<b>7</b>	Colorectal cancer. Module 1		PBL	Quizziz	≥80% (4) 64–79% (3) 51-63% (2) <50% (1)	
<b>8</b>	Pancreatic, gallbladder and liver cancers.	2	TBL	Peer-assesment	Content acuracy Clarity Clinical reasoning Feedback quality	4
<b>9</b>	Gynaecological cancers.	2	DDRD	Assessment checklist	Case understanding Diagnosis Management reflection	4
<b>10</b>	Urogenital cancers. Cancers of male reproductive system.	2	E&IM	Flashcards	Accurate Focused Recall-based Clinically relevant	4
<b>11</b>	Haematopoietic and lymphoid malignancies ( Leukemia, Lymphoma )	2	DDRD	Assessment checklist	Case understanding Diagnosis Management reflection	4
<b>12</b>	Soft tissue sarcomas. Bone tumours.	2	SBL	SP (Standart patient)	Case understanding Diagnosis Management reflection	4

<b>13</b>	Central nervous system tumours.	2	TBL E&IM	Peer- assesment	Content accuracy Clarity Clinical reasoning Feedback quality	4
<b>14</b>	Childhood cancers.	2	E&IM	Kahoot	≥80% (4) 64–79% (3) 51–63% (2) <50% (1)	4
	<b>TOTAL</b>	<b>28 h</b>				<b>4</b>

### Independent work of the students under the guidelines of teacher

№	Topics	Tasks	hours	evaluation tools	Literature	Time limit
<b>Lecture</b>						
<b>1</b>	Carcinogenesis. Pre-malignant lesions and conditions.	Practice MCQs and short answers	2	Google clasroom	-Medscape Fast Five -ASCO Question Bank -NCCN Navigator	2 <sup>nd</sup> week
<b>2</b>	Screening and prevention.	Summarize screening guidelines for common cancers. Instructions: Include who should be screened, how often, and what tests are recommended (e.g., mammograms, colonoscopy, Pap smear).	2	Quizzizz	WHO, American cancer society, European Commission	3 <sup>rd</sup> week
<b>3</b>	Tumor markers	Practice MCQs and short answers	1	Google clasroom	Quizziz, Google classroom, Quizzes e.t.	5 <sup>th</sup> week
<b>Practical</b>						
<b>1</b>	Palliative care Supportive palliative care, hospice care, home care	Create a care plan for a patient with advanced, incurable cancer. Instructions: Assess pain and symptom management. Include communication strategy (e.g., SPIKES protocol). Discuss advance care planning and ethical considerations.	2	Flashcards	DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology 11 <sup>th</sup> and 12 <sup>th</sup> ed.	2 <sup>nd</sup> week
<b>2</b>	Pharmacol ogy of Cancer Chemother apy	Select one modern targeted or immunotherapy agent (e.g., pembrolizumab, osimertinib, trastuzumab). Instructions:	2	Clinical Reasoning (Оценка клинического мышления)	DeVita, Hellman, and Rosenberg's Cancer: Principles and	3 <sup>rd</sup> week

		Describe the molecular target and mechanism of action. List indications, resistance patterns, and key trials. Discuss side effects and monitoring.			Practice of Oncology 11 <sup>th</sup> and 12 <sup>th</sup> ed.	
3	Tumors of Upper respiratory tract	Simulate a multidisciplinary tumor board discussion. Instructions: Define roles: oncologist, surgeon, radiologist, pathologist, palliative care. Create a treatment plan with justifications. Include staging, biomarkers, and NCCN guidelines.	2	Clinical Reasoning (Check-list)	DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology 11 <sup>th</sup> and 12 <sup>th</sup> ed.	4 <sup>th</sup> week
4	Oncologic emergencies	Create a quick-reference guide on 3–5 oncologic emergencies. Examples: Spinal cord compression, tumor lysis syndrome, neutropenic fever, SVC syndrome, hypercalcemia of malignancy. Instructions: Include pathophysiology, clinical signs, initial workup, and emergency management.	1	Clinical Reasoning (Check-list)	DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology 11 <sup>th</sup> and 12 <sup>th</sup> ed.	5 <sup>th</sup> week
<b>Total</b>		<b>Module 2</b>	<b>12 h</b>			

### Plan for independent work of students

№	Topic	Tasks	Hours	Evaluation tools	Points	Literature	Time limit
1.	Carcinogenesis. Pre-malignant lesions and conditions.	Practice MCQs and short answers	3	Testing	4	Quizziz, Google classroom, Quizzes e.t.	1st week
2.	Screening and prevention.	Presentation on screening guidelines for common cancers. Instructions: Include who should be screened, how often, and what tests are	5	1. Disclosure of the topic -2 2. Material supply1b 3. Presentation design-1 (self-assessment)	4	WHO, American cancer society, European Commission	1st week
3	Tumor markers	Create a chart of common tumor markers (e.g., PSA, CA-125, AFP). Instructions: Include the marker, associated cancer, normal range, and diagnostic use.	5	1. Disclosure of the topic -2 2. Material supply1b 3. Presentation design-1 (self-assessment)	4	National Cancer Institute (NCI) MedlinePlus (National Library of Medicine): American Cancer Society (ACS)	2 <sup>nd</sup> week
4	Palliative care Supportive palliative care,	Create a care plan for a patient with advanced, incurable	5	1. Case structure-2 2. Validity	4	DeVita, Hellman, and Rosenberg's	2 <sup>nd</sup> week

	hospice care, home care, bereavement counselling	cancer. Instructions: Assess pain and symptom management. Include communication strategy (e.g., SPIKES protocol).		(general and internal).-1 3. The originality of the approach-1 Clinical Reasoning		Cancer: Principles and Practice of Oncology 11 <sup>th</sup> and 12 <sup>th</sup> ed.	
5	Pain management <ul style="list-style-type: none"> <li>• End of life care</li> <li>• Quality of life: metrics and measures •</li> </ul>	Prepare short notes on pain management	3	1. Disclosure of the topic -2 2. Material supply1b 3. Presentation design-1 Clinical Reasoning Self-assessment	4	DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology 11 <sup>th</sup> and 12 <sup>th</sup> ed.	3 <sup>rd</sup> week
6	TNM staging systems	Learn TNM staging systems	3	1. Disclosure of the topic -2 2. Material supply1b 3. Presentation design-1	4	DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology 11 <sup>th</sup> and 12 <sup>th</sup> ed.	3 <sup>rd</sup> week
7	Pharmacology of Cancer Chemotherapy	Select one modern targeted or immunotherapy agent .Prepare drug charts (classification, uses, side effects)	5	1. Disclosure of the topic -2 2. Material supply1b 3. Presentation design-1	4	DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology 11 <sup>th</sup> and 12 <sup>th</sup> ed.	4 <sup>th</sup> week
	<b>Module I</b>				4		
8	Pharmacology of Cancer Chemotherapy	Doxorubicin. Prepare drug charts (classification, uses, side effects)	5	1. Disclosure of the topic -2 2. Material supply1b 3. Presentation design-1	4	DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology 11 <sup>th</sup> and 12 <sup>th</sup> ed.	4 <sup>th</sup> week
9	Tumors of Upper respiratory tract	Analyze oncology case scenarios	5	-Case structure-2 - Validity (general and	4	ASCO Post ONCCentral Medscape Karger CRO	5 <sup>th</sup> week



				internal).-1 - The originality of the approach-1 Clinical Reasoning		NCCN	
10	Thyroid cancer	Preparing disease profiles (definition, causes, symptoms, treatment)	3	1. Disclosure of the topic -2 2. Material supply1b 3. Presentation design-1	4	DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology 11 <sup>th</sup> and 12 <sup>th</sup> ed.	5 <sup>th</sup> week
11	Oncologic emergencies	Create a quick-reference guide on 3–5 oncologic emergencies. Examples: Spinal cord compression, tumor lysis syndrome, neutropenic fever, SVC syndrome, hypercalcemia of malignancy.	5	-Case structure-2 - Validity (general and internal).-1 - The originality of the approach-1	4	ASCO Post ONCCentral Medscape Karger CRO NCCN	6 <sup>th</sup> week
12	Tumors of the adrenal glands	Make Case study. Write a brief introduction and background. Clearly state the main problem or issue. Analyze the situation and possible solutions. Recommend the best solution. Conclude with key findings or lessons learned	5	- Case structure-2 - Validity (general and internal).-1 - The originality of the approach-1	4	-ASCO Post -ONCCentral -Medscape -Karger CRO -NCCN	6 <sup>th</sup> week
13	The tumors of the pleura. Benign tumors mediastinal organs. Tumors of the heart	Watch and note clinical procedure videos	5	-plan of the source – 1 -Reflection in the summary of the main provisions of the source and the presence of conclusions -2 -Clarity, conciseness of presentation - 1	4	Youtube, ONC Central	7 <sup>th</sup> week

14	Treatment of metastatic cancer	Practice MCQs and short answers (ESMO Self-Assessment)	3	1. The degree of disclosure of the essence of the problem-2 2. Compliance with the rules of registration and literacy-1 3. Reliability of information-1	4	-Medscape Fast Five -ASCO Question Bank -NCCN Navigator -Geeky Medics	7 <sup>th</sup> week
15	14 Newer approaches in cancer treatment	Make research and report	5	1. Disclosure of the topic -2 2. Material supply1b 3. Presentation design-1	4	Medscape NCCN	8 <sup>th</sup> week
	<b>Module II</b>		60h		8		

### List of recommended literature

#### Basic:

- DeVita, Hellman, and Rosenberg's Cancer: Principles and Practice of Oncology 11<sup>th</sup> and 12<sup>th</sup> ed.  
<https://www.pdfdrive.com/devita-hellman-and-rosenbergs-cancer-principles-and-practice-of-oncology-e189956712.html>
- Oxford handbook of oncology, Jim Cassidy, Donald Bissett 2015  
<https://www.pdfdrive.com/oxford-handbook-of-oncology-d175293301.html>
- Oxford Textbook of Oncology  
by David J. Kerr & Daniel G. Haller & Cornelis J. H. van de Velde & Michael Baumann  
<https://www.pdfdrive.com/oxford-textbook-of-oncology-e157963471.html>
- Manual of Clinical Oncology by Bartosz Chmielewski & Mary Territo  
<https://www.pdfdrive.com/manual-of-clinical-oncology-e189412063.html>

#### Discipline Policy:

##### Requirements for students:

##### 1. Be active in practical activities;

- Be able to work in a team;
- Have a presentation on the topic of the forthcoming lecture, be ready to give feedback on the lecture;
- Must perform daily tasks according to the schedule of lecture, practical classes and classes of independent work of student guided by teacher.
- In case of lack of activity and in case of non-fulfillment of the task, measures of punishment are applied and the score on practical training is reduced;
- Participate in discussions, perform individual and group tasks, explore and other resources;
- Do not skip classes without respectful reasons;
- Have a tidy appearance;
- To show activity in practical classes;
- Do not miss classes;
- Keep the working place clean.

##### Penalty points

If you miss each lecture session without a valid reason and without further training, it is reduced by 4 point, if you miss each practical lesson, it is reduced by 4 point. The rating of admission to the exam consists of the average score of the practical lesson, the selfwork, and the boundary control.

The final rating of admission to the exam in the subject must be at least 61 .

**Methods of teaching and teaching (small groups, discussion, situational tasks, work in pairs, presentations, case studies, etc.).**

- Lectures – overview.
- Practical exercises: working in small groups, writing notes, drawing diagrams, learning TNM staging, making crosswords, solving case studies e t.c.

**Independent work of students** - work with literature, performance of tasks and exercises, preparation and protection of thematic abstracts and presentations.