

**AZERBAIJAN MEDICAL
UNIVERSITY**

**SYLLABUS OF SUBJECT
OF ONCOLOGY**

CONFIRMED BY

Head of Oncology Department,
academician A.T. Amiraslanov

Signature _____

for students of

13.09.2019

I-II treatment and prevention faculties

CODE OF THE SUBJECT:	070101
NAME OF SUBJECT:	Oncology
FORM OF TEACHING THE SUBJECT:	visual
TYPE OF SUBJECT:	compulsory consistent subject of the specialty
TRAINING LOAD (HOURS) TOTAL:	120
SUBJECT TEACHING YEAR:	2019-2020
SEMESTRY OF TEACHING	XI or XII
NUMBER OF CREDITS (1 credit every 30 hours)	8 credits
LANGUAGE OS SUBJECT:	Azerbaijan, russian, english
TUITORS:	acad. A.T. Amiraslanov prof. A.Y. Gaziyeu prof. N.M. Amiraliyev prof. R.B. Bayramov prof. A.A. Amiraslanov ass.prof. Y.A. Nuriyev ass.prof. J.B. Jamalov ass.prof. E.E. Ibrahimov ass.prof. N.I. Mehdiyeva ass.prof. T.S. Guliyeva ass.prof. Y.M. Hetemov ass.prof. G.I. Kerimova ass.prof. E.R. Huseynov ass.prof. R.Sh. Gurbanova ass.prof. Namazov ass.prof. K.R.Zeynalova ass. Y.G.Gocamanov ass.R.T. Abdullayeva ass. Sh.D. Tagiyev ass. I.U. Jeferova ass. V.R. Ismail

ass. H.G. Veliyeva
ass. S.S. Mammadova

PHONE NUMBERS OF DEPARTMENT: (012) 541-59-77; 78

E-MAIL OF DEPARTMENT: department_oncology@amu.edu.az

REQUIRED TEXTBOOKS AND TUTORIALS:

Main:

1. Ə.T. Əmiralanov, A.Y. Qazıyev. Onkologiya (2010). Dərslik.
2. R.B. Bayarmov. Onkologiya (2016). Dərslik.
3. Ə.T.Əmiraslanov, A.Y.Qazıyev, N.İ.Mehdiyeva. Süd vəzisi xərçəngi (2013). Dərs vəsaiti.
4. Ə.T.Əmiraslanov, Z.Ə. Səfərov, A.Y.Qazıyev, T.S.Quliyeva, Y.M.Hətəmov. Ağciyər xərçəngi (2016). Dərs vəsaiti.
5. Ганцев Ш. Х. Онкология (2006). Dərslik.
6. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009.

Additional:

1. Ə.T. Əmiraslanov, A.Y. Qazıyev. Uşaq onkologiyası (2010). Dərslik.
2. Ə.T. Əmiraslanov, R.B. Bayramov. Abdominal onkologiya (2004). Dərslik.
3. Namiq Əmirəliyev, Azər Əmiraslanov. Baş-boyun şişləri (2012). Dərslik.
4. А.И. Пачес. Опухоли головы и шеи. Клиническое руководство. 2013
5. Клинические рекомендации общероссийской организации «Российские общество онкомаммологов» по диагностике и лечению рака молочной железы. Под редакцией В.Ф. Семиглазова, Р.М. Палтуяева, Москва, 2018
6. Biglia N., Peccatori F.A. (Eds.) Breast Cancer, Fertility Preservation and Reproduction (2015).
7. Blanke Charles D., Rödel Claus, Talamonti Mark S. Gastrointestinal Oncology: A Practical Guide (2011).
8. Barakat R.R. Principles and Practice of Gynecologic Oncology. 5th ed. – Lippincott Williams & Wilkins (2009).

I. The description and purpose of the subject:

Brief description of the course: Up-to-date problems of oncology: factors and precancerous diseases leading to malignant tumor development, prophylaxis of cancer, skrining. The types of

oncologic institutions, their function, oncologic service, oncological deontology. Implementation of medical, physical, social and psychological rehabilitation in oncology.

the main aspects of oncological diseases: epidemiology of malignant tumors, cancerogenesis, biological properties, morphology, progressing, nomenclature and classification of tumors, diagnostics and treatment.

Learning the most prevalent malignant tumors – the prevalence and incidence of these tumors, cancerogenesis, biological properties, histologic variants, progressing, staging, diagnostics, treatment and prognosis. Up-to-date treatment strategy of tumors according to histologic variants and stages.

Purpose of the course: Giving comprehensive knowledge to the students on the etiology, growth, development, spreading mechanisms, prevention, diagnostics and treatment of malignant tumors.

II. Calendar of the subject:

Weeks*	Topics and their short review	Lecture	Seminar	Hours	Date*
I Week Day 1	<p>Topic № I Bədxassəli şişlərin etiologiyası və patogenezi. Kanseroqenez haqqında müasir baxışlar.</p> <p>Short review: Theories of the development of malignant tumors (chemical, physical, viral, hereditary and irritant theories). Chemical carcinogenesis (polycyclic aromatic hydrocarbons, aromatic nitrogen compounds, metals and inorganic salts). Physical carcinogenesis (ionizing radiation, ultraviolet radiation, mechanical and thermal factors). Biological carcinogens (viruses containing DNA and RNA). Atypicality (biochemical, functional, morphological, cytological, histological, immunological). Theoretical materials on the topic, modern views become the object of interactive discussion in the lecture.</p> <p>Oxu materialları (kitabın adı, müəlliflər): 1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. Руководство по онкологии. Том I, II, III. Минск 2016 4. Ганцев Ш.Х. Онкология (2006).</p>	2	–	2	

	Dərslik. 5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009.				
I Week Day 2	<p>Topic №1</p> <p>Acquaintance with oncologic clinic. Types of oncologic institutes. Clinical groups. Principles of deontology in oncology. Epidemiology and prophylaxis of malignant tumors.</p> <p>Short review: Acquaintance with Oncologic Clinic of AMU. Information about National Center of Oncology. Oncologic Clinic, Oncologic Dispancers, oncologic departments and cabinets, and their tasks. Characteristic ov deontology in the field of Oncology. Registration of patients accordin to clinic groups.</p> <p>Information about epidemiologic properties of oncologic diseases. Oncological diseases as a clinical burden on society and state. Statistics and dynamics of oncologic diseases. Spread of malignant tumors according to geography, age and sex. Survival parameters of patients with malignant tumors. Prophylaxis of malignant tumors: phimary and secondary prophylaxis. Topic is dicussed onthe basis of theoretical khnowledge, slides.</p> <p>Literature (name of books, authors): 1. Ə.T. Əmiraslanov, A.Y. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016 4. ГАНЦЕВ Ш. Х. ОНКОЛОГИЯ (2006). Dərslik. 5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009 – Lippincott Williams & Wilkins (2009).</p>	– 2 hours	2 hours 2 hours	6 hs	
II Week Day 3	<p>Topic № 2</p> <p>Pathology of malignant tumors, tumor growth. Recurrence and metastasis</p> <p>Short review: Malignant cells properties. Transformation of normal cells into malignant</p>	2 hours	4hours	6 hs	

	<p>ones.Protooncogenes and tumor supressor genes. Atypism: cellular atypism, tissue atypism. Metaplasia and displasia. Classification and nomenclature of tumors. Local recurrence. Routs and mechanisms of metastasis. TNM classification. Topic is dicussed onthe basis of theoretical knowledge, slides.</p> <p>Literature (name of books, authors): 1. Ə.T. Əmiraslanov, A.Y. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016 4. ГАНЦЕВ Ш. Х. ОНКОЛОГИЯ (2006). Dərslik. 5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009 – Lippincott Williams & Wilkins (2009).</p>				
<p>II Week Day 4</p>	<p>Topic № 3 Diagnostics and screening of malignant tumors. Screening. Short review: Clinical examination – subjective (complains of patients, history of disease, medical history), objective(inspection, palpation, percussion, auskultation). X-ray examination, CT, MRI, PET-scan, scintigraphy, endoscopy, pathological examination, laboratory tests. Screening, its tasks and significance.</p> <p>Students take place in diagnostik rooms as far as possible. They get to know the tecnical aspect of CT, MRI, endoscopy and interpret the report of instrumental examinations under the supervision of the professor. They learn about the diagnostic value od tumor antigenes. Topic is discussed on the basis of films, slides. The students take part in the discussion of the appropriate patients.</p> <p>Literature (name of books, authors): 1. Ə.T. Əmiraslanov, A.Y. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik.</p>	<p>2 hours</p>	<p>4hours</p>	<p>6 hs</p>	

	<p>3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016</p> <p>4. Ганцев Ш. X. Онкология (2006). Dərslik.</p> <p>5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009.</p> <p>6. Blanke Charles D., Rödel Claus, Talamonti Mark S. Gastrointestinal Oncology: A Practical Guide (2011).</p> <p>7. Barakat R.R. Principles and Practice of Gynecologic Oncology. 5th ed. – Lippincott Williams & Wilkins (2009).</p>				
<p>III Week Day 5</p>	<p>Topic №4 Treatment methods of malignant tumors. Palliative aid to oncologic patients.</p> <p>Short review Surgical method of treatment. Types of surgery in patients with malignant tumors. Types of radical surgery : radical, palliative and symptomatic surgery. Combined and extended surgery. Definition of ablasy and antiblasy. Definition of resectability, operability, curability. Radiotherapy. Radical and palliative radiotherapy. Neoadjuvant and adjuvant radiotherapy. Chemotherapy. Neoadjuvant and adjuvant chemotherapy. Target therapy. Classes of chemotherapy agents. Ways of chemotherapy. Multidisiplinary treatment of oncologic diseases. Hormonal and antihormonal treatment. Immunotherapy. Palliative aid to the oncologic patients. Hospis. The students see the surgery in the surgery room or by real-time monitor. Indications to radiotherapy, chemotherapy, target therapy, hormonal therapy are discussed. Ste students get to know the ways of chemotherapy int the chemotherapy rooms. The sdudents are given the opportunity to train some practice. Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture.</p> <p>Literature (name of books, authors): 1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016).</p>	2 hours	4hours	6 hs	

	<p>Dørslík.</p> <p>3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016</p> <p>4. ГАНЦЕВ III. X. ОНКОЛОГИЯ (2006). Dørslík.</p> <p>5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009.</p> <p>6. Blanke Charles D., Rödel Claus, Talamonti Mark S. Gastrointestinal Oncology: A Practical Guide (2011).</p> <p>7. Barakat R.R. Principles and Practice of Gynecologic Oncology. 5th ed. – Lippincott Williams & Wilkins (2009).</p>				
<p>III Week Day 6</p>	<p>Topic № 5</p> <p>Oral mucosa cancer.</p> <p>Lip cancer</p> <p>Short review:</p> <p>Epidemiology of lip cancer. Incidence and mortality. Causes and pathogenesis. Environmental factors, life style contributing to the development of oral mucosa carcinoma – smoking, smokeless tobacco use, HPV-infection, dental problems. Intrinsic factors. Precancerous conditions – leukoplakia, verrucous leukoplakia, erythroplakia, submucosal fibrosis, lichen planus, nicotine stomatitis. Inherited aspects of oral mucosa cancer – xeroderma pigmentosum, anemia Fanconi. Measures of prevention. Pathology of lip cancer, TNM classification. Growth and spread. Regional and distant metastases. Clinical variants. Clinical presentations. Diagnostics. Differential diagnosis. Treatment methods – surgery, radiotherapy, chemotherapy. Multidisciplinary treatment. Long term results of treatment. Supply the participation of students at the examination of patients with appropriate tumor. The cases are discussed with the students.</p> <p>Epidemiology, incidence, morbidity of cancer of oral mucosa. Etiology and cancerogenesis of cancer of oral mucosa. Precancerous diseases and conditions of cancer of oral mucosa. Pathology of cancer of oral mucosa. Lymphogenic and hematogenic metastasis of cancer of oral mucosa. Clinical presentations of cancer of oral</p>	<p>–</p> <p>2 hours</p>	<p>2 hours</p> <p>2 hours</p>	<p>6 hs</p>	

	<p>mucosa. Diagnostics of cancer of oral mucosa. Staging of cancer of oral mucosa. Management of cancer of oral mucosa. Assesment of long-term results of treatment for cancer of oral mucosa. Discussion of patients with the participation of the students. Theoretical materials, slides are used at lecture. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors): 1. Ə.T. Əmiraslanov, A.Y. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. МИНСК 2016 4. ГАНЦЕВ Ш. Х. ОНКОЛОГИЯ (2006). Dərslik. 5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009. 6. Blanke Charles D., Rödel Claus, Talamonti Mark S. Gastrointestinal Oncology: A Practical Guide (2011). 7. Barakat R.R. Principles and Practice of Gynecologic Oncology. 5th ed. – Lippincott Williams & Wilkins (2009).</p>				
IV Week Day 7	<p>Topic № 6 Thyroid cancer</p> <p>Short review: Cause and cancerogenesis of thyroid cancer. Risk factors and precancerous diseases. Precancerous conditions – follicular adenoma, atypical adenoma, Hashimoto thyroiditis. MEN 2 syndrome, familial medullary carcinoma. Cowden syndrome, dyshormonogenetic goiter. Measures of prevention Histologic variants. TNM stage and group staging. Ways of metastasis – lymphogenic and hematogenic metastases. Clinical manifesations of thyroid cancer. Diagnostics – physical examination, fine</p>	-	4 hour	4 hs	

	<p>needle biopsy, radioisotope examination, ultrasonography. Clinical staging. Differential diagnostics.</p> <p>Treatment of thyroid cancer. Management in metastatic cases. Surgery, Chemotherapy, radiotherapy. Survival of patients with thyroid cancer.</p> <p>Discussion of patients with the participation of students according to the theme. Condition is arranged for interactive discussion of the students.</p> <p>Literature (name of books, authors):</p> <ol style="list-style-type: none"> 1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. МИНСК 2016 4. ГАНЦЕВ Ш. Х. ОНКОЛОГИЯ (2006). Dərslik. 5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009. 				
IV Week Day 8	<p>Topic№7 Skin cancer.</p> <p>Short review: Epidemiology, incidence, morbidity of skin cancer. Ethiology and cancerogenesis. Etiology and pathogenesis. UV-radiation, ionizing radiation, smoking, HPV-infection, HIV-infection, arsenic exposure. Precancerous conditions – discoid lupus erythematosus, psoriasis, Bowen disease, Queyraterythroplasia, skin horn, skin papilloma, keratoacanthoma, skin tags, actinic keratosis. Histological forms – basal cell, squamous cell carcinomas. Xeroderma pigmentosum, Gorlin’s syndrome, oculocutaneous albinism, syndrome Werner. Pathology of skin cancer. Lymphogenic and hematogenic metastasis of skin cancer. Clinical presentations of skin cancer. Diagnostics of skin cancer. Staging. Management of skin cancer. Assessment of long-term results of treatment for skin cancer. Discussion of patients with the participation of the students.</p>	–	4hours	4 hs	

	<p>The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors):</p> <ol style="list-style-type: none"> 1. Ə.T. Əmiraslanov, A.Y. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016 4. Ганцев Ш. X. Онкология (2006). Dərslik. 5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009. 				
V Week Day 9	<p>Topic №8 Skin melanoma Epidemiology, incidence, morbidity of malignant melanoma. Geographical aspects of epidemiology. Etiology and cancerogenesis. Skin types. Etiology and pathogenesis – Environmental factors – UV-radiation exposure. Predisposing pathologies – melanocytic nevi, dysplastic nevi, Sutton nevi, junctional nevi. Inherited-genetic syndromes – xeroderma pigmentosum, FAMMM. Types of nevi. Pathology of malignant melanoma. Lymphogenic and hematogenic metastasis of malignant melanoma. Clinical presentations of malignant melanoma. Diagnostics of malignant melanoma. Staging of malignant melanoma. Management of malignant melanoma. Assesment of long-term results of treatment for malignant melanoma. Discussion of patients with the participation of the students. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors):</p> <ol style="list-style-type: none"> 1. Ə.T. Əmiraslanov, A.Y. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016 4. Ганцев Ш. X. Онкология (2006). 	-	4 hours	4 hs	

	Dərslik. 5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009.				
V Week Day 10	<p>Topic № 9 Lung cancer</p> <p>Epidemiology, incidence, morbidity of lung cancer. Etiology and cancerogenesis of lung cancer. Precancerous diseases and conditions of lung cancer. Pathology of lung cancer. Lymphogenic and hematogenic metastasis of lung cancer. Clinical presentations of lung cancer. Diagnostics of lung cancer. Staging. Management of lung cancer. Assesment of long-term results of treatment. Discussion of patients with the participation of the students. Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture.</p> <p>The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors): 1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016 4. ГАНЦЕВ Ш. Х. ОНКОЛОГИЯ (2006). Dərslik. 5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009.</p>	2hours	4hours	6 hs	
VI Week Day 11	<p>Topic№ 16 Precancerous diseases of breast cancer</p> <p>Epidemiology, incidence, morbidity precancerous diseases of breast cancer. Etiology and cancerogenesis. Precancerous diseases and conditions precancerous diseases of breast cancer. Pathology precancerous diseases of breast cancer. Clinical presentations precancerous diseases of breast cancer. Diagnostics precancerous diseases of breast</p>	–	4 hours	4 hs	

	<p>cancer. Management precancerous diseases of breast cancer.</p> <p>Assesment of long-term results of treatment precancerous diseases of breast cancer.</p> <p>Discussion of patients with the participation of the students.</p> <p>The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors):</p> <ol style="list-style-type: none"> 1. Ə.Т. Əmiraslanov, А.Ү. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. Руководство по онкологии. Том I, II, III. Минск 2016 4. Под редакцией академика РАН М.И. Давыдова. Онкология. Клинические рекомендации (2015). Dərslik. 5. Ганцев Ш.Х. Онкология (2006). Dərslik. 6. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009. 8. Barakat R.R. Principles and Practice of Gynecologic Oncology. 5th ed. – Lippincott Williams & Wilkins (2009). 				
VI Week Day 12	<p>Topic № 17 Breast cancer</p> <p>Epidemiology, incidence, morbidity of breast cancer. Etiology and cancerogenesis of breast cancer. Precancerous diseases and conditions of breast cancer.</p> <p>Pathology of skin cancer of breast cancer.</p> <p>Lymphogenic and hematogenic metastasis of breast cancer.</p> <p>Clinical presentations of breast cancer.</p> <p>Diagnostics of skin cancer. Staging of breast cancer.</p> <p>Management of breast cancer.</p> <p>Assesment of long-term results of treatment of breast cancer.</p> <p>Discussion of patients with the participation of the students.</p> <p>Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture.</p> <p>The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p>	2 hours	4 hour	6 hs	

	<p>Literature (name of books, authors):</p> <ol style="list-style-type: none"> 1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. Руководство по онкологии. Том I, II, III. Минск 2016 4. Ганцев Ш. X. Онкология (2006). Dərslik. 5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009. 				
<p>VII Week Curation Day 13</p>	<p>Topic № 10 Esophageal cancer</p> <p>Epidemiology, incidence, morbidity of esophageal cancer. Etiology and cancerogenesis of esophageal cancer. Precancerous diseases and conditions of esophageal cancer. Pathology of esophageal cancer. Lymphogenic and hematogenic metastasis of esophageal cancer. Clinical presentations of esophageal cancer. Diagnostics of esophageal cancer. Staging. Management of esophageal cancer. Assesment of long-term results of treatment. Discussion of patients with the participation of the students. Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors):</p> <ol style="list-style-type: none"> 1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. Руководство по онкологии. Том I, II, III. Минск 2016 4. Ганцев Ш. X. Онкология (2006). Dərslik. 5. F. Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009. 7. Blanke Charles D., Rödel Claus, Talamonti Mark S. Gastrointestinal Oncology: A Practical Guide (2011). 	2 hours	4hours	6 hs	

VII Week Day 14	<p>Topic № 11 Stomach cancer</p> <p>Epidemiology, incidence, morbidity of stomach cancer. Etiology and cancerogenesis of stomach cancer. Precancerous diseases and conditions of stomach cancer. Pathology of stomach cancer. Lymphogenic and hematogenic metastasis of stomach cancer. Clinical presentations of stomach cancer. Diagnostics of stomach cancer. Staging. Management of stomach cancer. Assesment of long-term results of treatment. Discussion of patients with the participation of the students. Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors):</p> <ol style="list-style-type: none"> 1. Ə.Т. Əmiraslanov, А.Ү. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016 4. Ганцев Ш.Х. ОНКОЛОГИЯ (2006). Dərslik. 5. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009. 6. Blanke Charles D., Rödel Claus, Talamonti Mark S. Gastrointestinal Oncology: A Practical Guide (2011). 	<p>2 hours</p>	<p>4 hours</p>	<p>6 hs</p>	
VIII Week Day 15	<p>Topic № 12 Colorectal cancer</p> <p>Epidemiology, incidence, morbidity of colorectal cancer. Etiology and cancerogenesis of colorectal cancer. Precancerous diseases and conditions of colorectal cancer. Pathology of colorectal cancer. Lymphogenic and hematogenic metastasis of colorectal cancer. Clinical presentations of colorectal cancer. Diagnostics of skin cancer. Staging of colorectal cancer.</p>	<p>2 hours</p>	<p>4 hours</p>	<p>6 hs</p>	

	<p>Management of colorectal cancer. Assesment of long-term results of treatment for colorectal cancer. Discussion of patients with the participation of the students. Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors): 1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. Руководство по онкологии. Том I, II, III. Минск 2016 4. Ганцев Ш.Х. Онкология (2006). Dərslik. 5. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009. 6. Blanke Charles D., Rödel Claus, Talamonti Mark S. Gastrointestinal Oncology: A Practical Guide (2011).</p>				
<p>VIII Week Day 16</p>	<p>Topic № 13 Liver cancer. Epidemiology, incidence, morbidity of liver cancer. Ethiology and cancerogenesis of liver cancer. Precancerous diseases and conditions of liver cancer. Pathology of liver cancer. Lymphogenic and hematogenic metastasis of liver cancer. Clinical presentations of liver cancer. Diagnostics of liver cancer. Staging. Management of liver cancer. Assesment of long-term results of treatment for liver cancer. Discussion of patients with the participation of the students. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors): 1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik.</p>	-	4hours	4 hs	

	<p>3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016</p> <p>4. Ганцев Ш.Х. Онкология (2006). Dərslik.</p> <p>5. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009.</p> <p>6. Blanke Charles D., Rödel Claus, Talamonti Mark S. Gastrointestinal Oncology: A Practical Guide (2011).</p>				
VIII Day 17	<p>Topic № 14 Pancreatic cancer</p> <p>Epidemiology, incidence, morbidity of pancreatic cancer. Etiology and cancerogenesis of pancreatic cancer. Precancerous diseases and conditions of pancreatic cancer. Pathology of pancreatic cancer. Lymphogenic and hematogenic metastasis of pancreatic cancer. Clinical presentations of pancreatic cancer. Diagnostics of pancreatic cancer. Staging. Management of pancreatic cancer. Assesment of long-term results of treatment of pancreatic cancer.</p> <p>Discussion of patients with the participation of the students. Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors):</p> <p>1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya.</p> <p>2. R.B. Bayarmov. Onkologiya (2016). Dərslik.</p> <p>3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016</p> <p>4. Ганцев Ш.Х. Онкология (2006). Dərslik.</p> <p>5. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009.</p> <p>6. Blanke Charles D., Rödel Claus, Talamonti Mark S. Gastrointestinal Oncology: A Practical Guide (2011).</p>	2 hours	4 hours	6 hs	
IX Week Day 18	<p>Topic № 15 Kidney cancer</p>				

	<p>Bladder cancer Prostate cancer</p> <p>Epidemiology, incidence, morbidity of kidney cancer. Etiology and cancerogenesis of kidney cancer. Precancerous diseases and conditions of kidney cancer. Pathology of skin cancer of kidney cancer. Lymphogenic and hematogenic metastasis of kidney cancer. Clinical presentations of kidney cancer. Diagnostics of kidney cancer. Staging. Management of kidney cancer. Assesment of long-term results of treatment of kidney cancer.</p> <p>Epidemiology, incidence, morbidity of bladder cancer. Etiology and cancerogenesis of bladder cancer. Precancerous diseases and conditions of bladder cancer. Pathology of bladder cancer. Lymphogenic and hematogenic metastasis of bladder cancer. Clinical presentations of bladder cancer. Diagnostics of bladder cancer. Staging. Management of bladder cancer. Assesment of long-term results of treatment for bladder cancer.</p> <p>Epidemiology, incidence, morbidity of prostatic cancer. Etiology and cancerogenesis of prostatic cancer. Precancerous diseases and conditions of prostatic cancer. Pathology o of prostatic cancer. Lymphogenic and hematogenic metastasis of prostatic cancer. Clinical presentations of prostatic cancer. Diagnostics of prostatic cancer. Staging. Management of prostatic cancer. Assesment of long-term results of treatment for prostatic cancer. Discussion of patients with the participation of the students. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Discussion of patients with the participation of the students. Theoretical materials, slides are used at</p>	-	4 hours	4 hs	
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	<p>lecture.</p> <p>The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors):</p> <ol style="list-style-type: none"> 1. Ə.T. Əmiraslanov, A.Y. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016 4. Ганцев Ш.Х. ОНКОЛОГИЯ (2006). Dərslik. 5. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009. 6. Blanke Charles D., Rödel Claus, Talamonti Mark S. Gastrointestinal Oncology: A Practical Guide (2011). 				
X Week Day 19	<p>Topic№ 18</p> <p>Endometrial cancer. Cervical cancer.</p> <p>Epidemiology, incidence, morbidity of endometrial cancer. Etiology and cancerogenesis of endometrial cancer. Precancerous diseases and conditions of endometrial cancer. Pathology of endometrial cancer. Limphogenic and hematogenic metastasis of endometrial cancer. Clinical presentations of endometrial cancer. Diagnostics of endometrial cancer. Staging. Management of endometrial cancer. Assesment of long-term results for treatment of endometrial cancer.</p> <p>Epidemiology, incidence, morbidity of cervical cancer. Etiology and cancerogenesis of cervical cancer. Precancerous diseases and conditions of cervical cancer. Pathology of cervical cancer. Limphogenic and hematogenic metastasis of cervical cancer. Clinical presentations of cervical cancer. Diagnostics of cervical cancer. Staging. Management of cervical cancer. Assesment of long-term results of treatment of cervical cancer.</p>	2 hours	4 hours	6 hs	

	<p>Discussion of patients with the participation of the students.</p> <p>Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors):</p> <ol style="list-style-type: none"> 1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. Руководство по онкологии. Том I, II, III. Минск 2016 4. Под редакцией академика РАН М.И. Давыдова. Онкология. Клинические рекомендации (2015). Dərslik. 5. Ганцев Ш.Х. Онкология (2006). Dərslik. 6. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009. 7. Barakat R.R. Principles and Practice of Gynecologic Oncology. 5th ed. – Lippincott Williams & Wilkins (2009). 				
X Week Day 20	<p>Topic № 19</p> <p>Ovarian cancer</p> <p>Epidemiology, incidence, morbidity of ovarian cancer. Etiology and cancerogenesis. Precancerous diseases and conditions.</p> <p>Pathology of ovarian cancer.</p> <p>Lymphogenic and hematogenic metastasis of ovarian cancer.</p> <p>Clinical presentations of ovarian cancer.</p> <p>Diagnostics of ovarian cancer. Staging.</p> <p>Management of ovarian cancer.</p> <p>Assesment of long-term results of treatment for ovarian cancer.</p> <p>Discussion of patients with the participation of the students.</p> <p>The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors):</p> <ol style="list-style-type: none"> 1. Ə.T. Əmiraslanov, A.Y. Qaziyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 	-	4 hours	4 hs	

	<p>3. Руководство по онкологии. Том I, II, III. Минск 2016</p> <p>4. Под редакцией академика РАН М.И. Давыдова. Онкология. Клинические рекомендации (2015). Dərslik.</p> <p>5. Ганцев Ш.Х. Онкология (2006). Dərslik.</p> <p>6. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009.</p> <p>7. Barakat R.R. Principles and Practice of Gynecologic Oncology. 5th ed. – Lippincott Williams & Wilkins (2009).</p>				
<p>XI Week Day 21</p>	<p>Topic № 20 Soft tissue tumors</p> <p>Epidemiology, incidence, morbidity of soft tissue tumors. Etiology and cancerogenesis of soft tissue tumors. Precancerous diseases and conditions of soft tissue tumors. Pathology of soft tissue tumors. Limphogenic and hematogenic metastasis soft tissue tumors. Clinical presentations soft tissue tumors. Diagnostics of soft tissue tumors. Staging. Management of soft tissue tumors. Assesment of long-term results of treatmentof soft tissue tumors. Discussion of patients with the participation of the students. Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors):</p> <p>1. Ə.Т. Əmiraslanov, А.Ү. Qazıyev. Onkologiya.</p> <p>2. R.B. Bayarmov. Onkologiya (2016). Dərslik.</p> <p>3. Руководство по онкологии. Том I, II, III. Минск 2016</p> <p>4. Ганцев Ш.Х. Онкология (2006). Dərslik.</p> <p>5. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009.</p>	2 hours	4 hours	6 hs	

XI Week Day 22	<p>Topic № 21 Bone sarcomas</p> <p>Epidemiology, incidence, morbidity of bone sarcomas. Etiology and cancerogenesis of bone sarcomas. Precancerous diseases and conditions of bone sarcomas. Pathology of bone sarcomas. Lymphogenic and hematogenic metastasis of bone sarcomas. Clinical presentations of bone sarcomas. Diagnostics of bone sarcomas. Staging. Management of bone sarcomas. Assesment of long-term results of treatment for bone sarcomas. Discussion of patients with the participation of the students. Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors): 1. Ə.Т. Əmiraslanov, А.Ү. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016 4. Ганцев Ш.Х. ОНКОЛОГИЯ (2006). Dərslik. 5. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009</p>	2 hours	4 hours	6 hs	
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XII Week Curation XXIII day	<p>Topic № 22 Hodgkin lymphoma Epidemiology, incidence, morbidity of lymphomas. Etiology and cancerogenesis of lymphomas.. Precancerous diseases and conditions of lymphomas.. Pathology of Hodgkin and non-Hodgkin lymphomas . Metastasis of lymphomas. Clinical presentations of lymphomas.. Diagnostics of lymphomas.Staging of lymphomas. Management of lymphomas. Assesment of long-term results of treatment. Discussion of patients with the participation of the students. Theoretical aspects of the topic is discussed interactively on the basis of slides at lecture. The appropriate patients are discussed, practical skills are demonstrated according to the theme.</p> <p>Literature (name of books, authors): 1. Ə.T. Əmiraslanov, A.Y. Qazıyev. Onkologiya. 2. R.B. Bayarmov. Onkologiya (2016). Dərslik. 3. РУКОВОДСТВО ПО ОНКОЛОГИИ. Том I, II, III. Минск 2016 4. Ганцев Ш.Х. ОНКОЛОГИЯ (2006). Dərslik. 5. F.Cavalli F., S.B. Kaye, H.H.Hansen et al. Textbook of Medical Oncology. Informa Healthcare, 2009</p>	2 hours	4hours	6 hs	
XII Week Curation XXIII day	<p>Topic № 23 Assesment of knowledge of the students. Final assesment and calculating of scores.</p>	-	2 hours	2 hs	

*Sequence of topics on special oncology can be changed.

I. Type of examinations – by computer.

II. Assessment during semester and və division of score:

Maximal score – 100 points.

A) *Maximal score during semester – 50point.*

For attendance	10 points
For self-study (referate, presentation, tesearch etc) görə Note: Copying is not accepted! Short review of tasks related to self-study, conditions of presentation, dateand assessment methodsare showed precisely*	10points

For practical study.	30points
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*Students can present 5 self-study works assessed by 2 points or 2 presentations assessed by 5 points.

B) Maximal score according to the results of examination—50 points

Test examination contains 50 questions, for every question is given 1 point, misanswers affect the result of the examination.

Note: Maximal points acquired for examination must not be less than 17 points.

C) Final assesment(examination scor plus acquired score during semester):

D)

91 – 100 points	excellent	A
81 – 90 points	very good	B
71 – 80 points	good	C
61 – 70 points	moderate	D
51 – 60 points	fair	E
less than 50 points	unfair	F

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