

1.	Subject	ONCOLOGY			
2.	Code	OM 423			
3.	Study Program	General medicine			
4.	Organizing Institution (Unit, Institute, Chair, Department)	Ss. Cyril and Methodius University, Faculty of Medicine Department of Oncology and Radiotherapy			
5.	Educational degree (first or second cycle)	Integrated 6-year study			
6.	Study year /semester	Forth (IV)/Eight (VIII)	7.	Number of credits	2
8.	Responsible teacher	Prof. Snezhana Smichkoska, Prof. Valentina Krstevska			
9.	Preconditions:	Enrolled eight semester			
10.	Teaching goals of the study program (competencies): Students to become acquainted with: <ul style="list-style-type: none"> - terminology in oncology - epidemiology of cancer, cancer prevention and early detection - diagnostic procedures and staging - principles of cancer surgery, chemotherapy, radiotherapy, hormonotherapy, target therapy, immunotherapy, principals of multidisciplinary treatment, side effects of specific oncological treatments - special problems in oncology and oncological emergencies - clinical characteristics, diagnosis and treatment of the most common solid malignant diseases (breast cancer, lung cancer, genitourinary malignancy, gynaecological malignancy, gastrointestinal cancers, head and neck cancers, CNS cancers, skin cancers, malignant melanoma, bone and soft tissues cancers) 				

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11.	<p>Content of the programme –theory (T) and practise (P):</p> <p>Module1 3T (theory)+2P (practise) classes</p> <ul style="list-style-type: none"> - Introduction to oncology, oncological terminology and cancer related terms - Epidemiology of cancer - Cancer prevention, screening, early diagnosis - Pathology and molecular biology of cancer - Approach to cancer patient - Tissue diagnosis in cancer - Evaluation of patient, imaging modalities, staging <p>Module2 3T (theory)+5P (practise) classes</p> <ol style="list-style-type: none"> 1. Therapeutic modalities in oncology <ul style="list-style-type: none"> - Surgical oncology - Radiotherapy - Chemotherapy - Hormonotherapy - Target therapy - Immunotherapy 2. Multidisciplinary approach 3. Acute and chronic side effects of cancer therapy <p>Module3 3T (theory)+5P (practise) classes</p> <ol style="list-style-type: none"> 1. Malignant tumours of thorax <ul style="list-style-type: none"> - Lung cancer - Breast cancer - Mediastinal tumours <p>Module4 5T (theory)+5P (practise) classes</p> <ul style="list-style-type: none"> - Genitourinary malignancy - Gynaecological malignancy
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- Gastrointestinal cancers
- Head and neck cancers
- CNS cancers
- Skin cancers and malignant melanoma
- Bone and soft tissues cancers

Module5 3T (theory)+3P (practise) classes

1. Special problems in oncology and oncological emergencies
 - Raised intracranial pressure
 - Spinal cord compression
 - Bone marrow suppression
 - Malignant effusions
 - Superior vena cava obstruction
 - Hypercalcemia
 - Paraneoplastic neurological syndromes
 - Cancer vein thrombosis
2. Cancer pain
3. Terminally ill patient

12.	Methods of studying: Theoretical and interactive lectures organised in 5 thematic modules concurrently with practical group work and exercises		
13.	Total available time:		60 classes
14.	Organization of the course		45 classes-theoretical course, practical course, seminars 15 classes-home individual learning
15.	Forms of teaching activities	15.1	Theoretical course 20 hours
		15.2	Practicals course, team work, seminars 25 hours
16.	16.1	Practice	

	Other forms of activities	16.2	Individual tasks	
		16.3	Individual (home) learning	15 hours
17.	Assessment of knowledge:			points
17.1	Tests			min.-max.
			Continual assessment 1(test) Included Module 1,2 and 3	20-32
	Final exam		Subject: Included Module 4 and 5 Written exam (test)+Practical exam+ Oral exam total 29-49 points min.-max. Written exam points Practical and Oral exam	21-37 8-12 points
17.2	Seminar paper/project (presentation: written and oral)		Seminar works	

	17.3	Active participation	Theoretical course Practical course	min.-max. points 1-3 points 10-16	
18.	Grading criteria: (points/grade)	up to 59 points	5 (five)	F	
		60 to 68 points	6 (six)	E	
		69 to 76 points	7 (seven)	D	
		77 to 84 points	8 (eight)	C	
		85 to 92 points	9 (nine)	B	
		93 to 100 points	10 (ten)	A	
19.	Requirements for signature and taking the final exam	Conditional criteria for assessment of knowledge: 7. In order to take the signature, the student should obtain minimum points in both theoretical and practical courses. 8. In order to take the final exam, the student should obtain the minimum points in the continual assessment. 9. If the student has not obtained the minimum points in the continual assessment, he/she will be obligated to pass it before the final exam.			
20.	Language of instruction	Macedonian			
21.	Method of monitoring the quality of teaching process	Attendance of students to classes and interactive participation in theoretical and practical lessons.			
22.	Literature				
	Mandatory textbooks				
		Author	Title	Publisher	Year
22.1	1	Vincent deVita	<i>Cancer: Principles and Practice of Oncology</i>	10th edition AVAILABLE ONLINE AT LWWHealthLibrary.com/oncology.	2014
	2	David J. Kerr, Daniel G. Haller, Cornelis J. H. van de Velde, and Michael	<i>Oxford Textbook of Oncology</i> Third Edition	Oxford Textbook	2016

			Baumann			
		3	Снежана Смичкоска Валентина Крстевска	Авторизирани предавања	Поместени на страницата на Медицински факултет	2017

		4	Валентина Крстевска Снежана Смичкоска	Радиотерапија на канцери на главата и вратот	Медицински факултет	2015
	22.2	Additional literature				
			Author	Title	Publisher	Year