

1.	Subject	BASIC NUCLEAR MEDICINE		
2.	Code	OM 315		
3.	Study Program	General Medicine		
4.	Institution (Unit, Institute, Chair, Department)	Ss Cyril and Methodius University, Medical Faculty, Department of Pathophysiology and Nuclear Medicine		
5.	Degree of education (first or second cycle)	Integrated 6-year study		
6.	Study year/semester	Third (III) / Fifth(V)	7.Number of credits	1.5
8.	Responsible teacher	Prof. Olivija Vaskova, PhD, MD		
9.	Preconditions	Obtained credits and passed final exam of Biophysics		
10.	Teaching goals:	<ul style="list-style-type: none"> • To become acquainted with the basics of nuclear medicine, production of radioisotopes and radiopharmaceuticals. • To get acquainted with radionuclide application in diagnosis and therapy of diseases. 		
11.	Brief content:	<p>Theoretical course:</p> <ul style="list-style-type: none"> • Physical bases of radioactivity, types of decay, radioactivity detectors. • Radiopharmaceuticals preparation and application. • Principles of radiotracers methods, application of radionuclides in diagnostic procedures and therapy of diseases. <p>Practical lessons:</p> <ul style="list-style-type: none"> • Routine procedures in detection and measurement of radioactivity. • The application of radionuclides for In vivo and In vitro procedures. • Presentation of the most common performed nuclear medicine scintigraphic diagnostic procedures. 		
12.	Methods of studying:	Interactive teaching during lectures and practical trainings, independent study by using textbooks, visual studying, practical exercises, computer-assisted learning.		
13.	Total available time:	45classes		
14.	Organization of the course	30 classes - theoretical course, practical course, seminars 15 classes - home individual learning		

15.	Forms of teaching activities	15.1.	Theoretical course	20 classes
		15.2.	Practical course, Seminars	10 classes
16.	Other forms of activities	16.1.	Practice	
		16.2.	Individual tasks	
		16.3.	Individual (home) learning	15 classes
Method of assessment				
17.1	Tests	<p style="text-align: right;">min – max</p> <p>Continuous assessment</p> <p>Final exam: final test +oral examination</p> <p>1. Final test: all unites of the theoretical and practical course with the exception of the theoretical part devoted to nuclear medicine in the field of oncology 36-60 points</p> <p>2. Oral examination: integrative knowledge</p>		

			<p>of the application of nuclear medicine methods in the oncology field</p> <p style="text-align: right;">15-25 points</p> <p>The grade in the final exam is given according to the grading table, and on the basis of the sum of points obtained in all of the activities.</p>
17.2	Seminar paper/project (oral/written presentation)		min – max
17.3	Active participation		min – max
18.	Grading criteria (points / grade)	up to 59 points	5 (five) F
		from 60 to 68 points	6 (six) E
		from 69 to 76 points	7 (seven) D

		from 77 to 84 points	8 (eight) C
		from 85 to 92 points	9 (nine) B
		from 93 to 100 points	10 (ten) A
19.	Requirement for signature and taking the final exam	<p>The student is required to actively follow all of the planned activities.</p> <p>Conditional criteria for assessment of knowledge: In order to get a signature, the student should obtain minimum points in both theoretical and practical courses</p>	
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.	Textbooks		
	Mandatory		
	1.	Basic nuclear medicine,	Vaskova O, Miceva Ristevska S, Pop Gjorcheva D, Miladinova D, Loparska S, Janevik-Ivanovska E:
			Boro Grafika, Skopje,
			2008
	Additional		
	1.	<i>Essentials of Nuclear Medicine Imaging: Expert Consult</i>	Mettler F. A., Jr. and Guiberteau M.J :
			Saunders, ISBN: 1455701041
			2012