1.	Subject	**BIOPHYSICS**			
2.	Code	MLD – 123			
3.	Study program:	Three-year professional studies of medical laboratory diagnostics			
4.	Conducted by	UKIM Medical Faculty – Skopje Department of Medical Physics			
5.	Degree of education (first or second cycle)	First cycle			
6.	Academic year/semester	First/II	7.	Credits	3
8.	Professor	Prof. d-r Tomislav Stankovski			
9.	Prerequisite	None			
10.	Goals	Learn the basic physical laws which are used in medicine -Learn the basic laws of movement, acoustics, pressure and heat, electrical and magnetic characteristics, and the use of ultrasound. -Understand the basic physical phenomena in modern medical diagnostic, including the methods, such as: echocardiogram, Doppler ultrasound, endoscope, refractometer, polarizer, lasers, thermography, NIRS imaging, x-ray scan, mammography, computed tomography, SPECT, PET scan, electrophysiology (EKG, EEG, EMG), magnetic resonance - understand the basic physical phenomena in modern medical therapy			
11.	Content summary: Theoretical lessons(30 classes): -Introduction to Biophysics, systems theory -Biomechanics -Fluids -Bioacoustics -Optics and optical phenomena -Radiation therapy -Thermodynamics -Electrostatistics -Electro-magnetic occurences Practical lessons (15 classes): -Optical methods -Sound methods -Electrical methods -X-ray methods				
12.	Teaching methods: Interactive lessons, practical lessons, seminars				
13.	Total classes:	90			
14.	Organization	45 theoretical lessons, practical lessons and seminars 45 learning at home			
15.	Types of teaching activities	15.1	Lessons: theoretical classes	30	
		15.2	Practical lessons, Seminars	15	
16.	Other types of activities	16.1	Practice		
		16.2	Self-supporting practice		
		16.3	Learning at home	45	

17.	Knowledge assessment		Points
	17.1-2	Mid-term exams/Final exam	Min.-max. 54 - 90
	17.3	Paper/project (oral presentation)	Min.-max. No
	17.4	Active participation	Min. – max. 6 - 10
18.	Grading criterion (points/grades)	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.	Requirements for obtaining a signature and attending the final examination	To obtain a signature, the student must gain minimum points from attending and participating in the theoretical and practical lessons. The final grade for the subject is formed according to the table for grading, and is based on the sum of the points from all the activities.	
20.	Language	Macedonian	
21.	Method of evaluating the quality of the lessons	Anonymous student evaluation of the subject, the professors and the collaborators who hold the lessons.	
22.	Literature		
	22.1	Mandatory literature	
		1.	T.Stankovski. Biophysics, Internal Medicine Handbook, Medical Faculty, Skopje, 2015.
	22.2	Additional literature	
		1.	N.Andonovska. Biophysics, University Ss. Cyril and Methodius, Skopje, 2005 D. Gerashanovski. Biophysics, Handbook or CD version, Department of Physics, 2006