

1.	Title of the teaching subject	BASIC PRINCIPLES OF THE SCIENTIFIC AND INVESTIGATION WORK			
2.	Code	OM-226			
3.	Study program	General medicine			
4.	Organizer of the study program (Unit/ Institute, Cathedra, Department)	УКИМ – Medical Faculty Cathedra of Internal Medicinea			
5.	Degree of education (first i.e. second cycle)	Integrated cycle			
6.	Academic year/semester	Second /IV	7.	Number of ECTS credits	1.5
8.	Professors	<i>Responsible teacher:</i> Prof. Dr Ljubica Georgievska-Ismail <i>Theoretical teachers:</i> Prof. Dr. Ljubica Georgieva-Ismail Prof. Dr. Olivera Stojcheva-Taneva Prof. Dr. Biljana Janeska Prof. Katerina Tosheska-Trajkovska Prof. Dr. Marija Valvukis <i>Practice teaching:</i> Prof. Dr. Marija Valvukis			
		Sen. Res. Fellow Biljana Gerasimovska-Kitanovska Doc. Dr. Katerina Tosheska-Trajkovska Res. Fell. Dr, Irina Pavlovska Doc. Dr. Lidija Poposka Ass. Doc. Dr/ Zhanina Perevska Dr. Tanja Smilevska, ph.sci			
9.	Preconditions for starting the subject	Enrolled semester			

10.	Goals of the subject program are getting acquainted with: <ul style="list-style-type: none"> • The essence and the meaning of scientific investigation and the principles of the scientific method; • The components of the scientific process and its understanding; • Medicine based on evidence and its application; • Discovering of the sources for scientific-investigation project and acquisition of basic knowledges for a critical attitude toward them: • Basic principles for scientific ethics, team work and the meaning of the authorship; ^[1]_[SEP] • Basic principles and rules for preparation, announcement and/or presentation of the results from the scientific investigation. ^[1]_[SEP] 			
11.	Contents of subject program: Theoretical course (10 hours)) <ul style="list-style-type: none"> • Introduction of the subject, obligations, expectations, Science and scientific method-what is it, history, meaning and principles. • Terminology in science, types of evidences, strength of recommendations • Design of the scientific-investigation project. • Medicine based on evidences and its application • Usage of bio-medical bases of data. • Ethics in the scientific-investigation work and responsible attitude in science. • Elaboration of scientific paper and preparation for publication, style, language and presentation. Practice (18 hours) <ul style="list-style-type: none"> - Practice 1. How to choose a theme for scientific-investigation work, searching of the resources on internet by means of key words, formation of hypotheses. - Practice 2. Planning and organization of the scientific investigation – practice of the assigned themes with a special retrospection toward material and methods. - Practice 3. Ethics in science – panel discussion on assigned examples (plagiarism, conflict of interest, prevention of copyright). - Practice 4. Parts of the paper: Critical review of the parts of the paper (title, design, material and methods, results, discussion, conclusion). - Practice 5. Quotation of literature, presentation of the paper on assigned material, 			
12.	Methods of learning: Interactive lectures, practice, panel discussion			
13.	Total available amount of learning hours	30 hours (+ project tasks by choice)		
14.	Distribution of the available learning time			
15.	Forms of teaching activities	15.1.	Lectures – theoretical teaching	10 hours + 2 hours test
		15.2.	Practice, Seminars	18 hours
16.	Other forms of activities	16.1.	Practice	
		16.2.	Independent tasks	By choice

		16.3.	Home learning	
17.	Way of estimation			Points
	17.1	Continuous tests	Mini-quiz after practical lecture – total 5 (for arch exact answer is given 1.5 point)	Min. – max. 23 - 38
	17.2	Final exam	Written: (30 questions: 1.5 point is given for each exact answer.. Minimum 60% exact answers)	min. – max;. 27 - 45
	17.3	Seminar work/project (presentation: oral)	There are bonus points for elaboration of project task/publicly presented for those who have reported at the beginning of the lecture (5 points))	

	17.4	Active participation		Min.-max. Theoretical lecture*: 4 - 6 Practical lecture: presence*: 4 – 6 * Presence of min.. 70% hours= 4 Presence of min. 80% hours= 5 Presence of min. > 90% hours= 6
18.	Criteria for assessment (points/mark)		Up to 59 points	5 (five) F
			Up to 60 to 68 points	6 (six) E
			Up to 69 to 76 points	7 (seven) D
			Up to 77 to 84 points	8 (eight) C
			Up to 85 to 92 points	9 (nine) B
			Up to 93 to 100 points	10 (ten) A
19.	Criteria for obtaining a signature and taking the final exam		To get the signature, the student should win minimum points from his/her attendance at theoretical and practical lectures. The grade for the subject is formed according to the rating table, based on the sum of the points from all the activities, the continuous testing and the final exam.	
20.	Language on which the lecture		Macedonian, if necessary on English	

	is performed	
21.	Method for evaluation of the quality of education	Anonymous student's evaluation of the subject, teachers and collaborators involved in the educational activities
22.	Literature	
	22.1.	Mandatory literature
		1. Authorized lectures by Prof. Dr. Katica Zafirovska and Prof. Dr. Ljubica Georgievska-Ismail
	22.2.	Additional literature
		1. Panzova V. Science as a trade. Faculty of Philosophy, UKIM, 2003.
		2. Marushik M. et al. Introduction in scientific work in medicine. Skopje, Kultura, 2003
		3. Spiroski Z.M. Scientific paper – to write and public. Skopje, Institute for Immuno-biology and Human Genetics, 2002