

1	Subject	Introduction in scientific research			
2	Code	DVI605			
3	Study Program	Study Program of Integrated studies in dental medicine			
4	Organizing Institution (Unit, Institute, Chair, Department)	Department of oral pathology and periodontology			
5	Educational degree (first or second cycle)	Integrated study			
6	Study year/semester	6/ 11	7	Number of credits	2
8	Teacher	Department of oral pathology and periodontology			
9	Preconditions	Passed all compulsory courses of 7 and 8 semester. Signatures of 9 and 10 semester courses			
10	Teaching goals: Basic knowledge for scientific work in medical science				
11	Brief content				
	Theoretical course				Class
	Science as a value system, a source of knowledge and well-being and security. Fundamental features of science. Recognition of science. Medicine as a science and scientific work in medicine. General strategy in work and research in medicine. General scientific research approach in medicine. Sources and paths of scientific thought. Belief, rational and irrational beliefs. The way of thinking during work (work, order, honesty, discovery, cooperation). Authorship, selection of mentor, selection of young collaborators. Applied science. Scientific procedure. Paths of opinion in scientific research. Hypothesis. The result. Proof. Publication (why and where to publish). Domestic and foreign journals, factors of influence, types of publications. How to publish. Paramedical misconceptions. Sources of interest in paramedicine. Criticism of scientific thought. Reasonable arguments. Paramedical successes. Paramedicine and medical education. Paramedicine and doctors. Approach to scientific research (types of research, research planning, experiment). Parts of the clinical experiment (introductory research, disaggregation of additional parameters, randomized controlled experiment, routine application research. Statistical proceeding of data in scientific research work (logic, probability model, population, sample). Hypothesis (differentiation procedure, matching procedure, proportionality procedure). Statistic hypothesis (setting, selecting, determining, calculating and locking). Errors in testing the hypothesis. Distinctions in measurement in medicine (nominal scale, ordinal scale and main scale). Accuracy of data (data error, measurement reliability and process reliability). Processing and display of data (collection, processing, display and interpretation).				15
	Total				15
	Seminars				
	The students of the seminars will present their ideas for the preparation of the diploma thesis, through written work with all the elements that the thesis should contain (5 pages) and a 5 minute presentation of each student.				15
12	Methods of studying: Interactive theoretical instruction, practical work in small groups and other forms, class room oriented lectures, interactive lectures, group work, practical training, seminar paper				
13	Total available time	60 classes			
14	Organization of the course	15 classes - theoretical course, 15 – seminars, 30 classes - home individual learning and other activities			
15	Forms of teaching activities	15.1.	Theoretical course	15 classes	
15.2.		Practical course, seminars	Seminars – 15 classes		
16	Other forms of activities	16.1.	Project tasks		
		16.2.	Individual tasks		
		16.3.	Individual (home) learning	30 classes	
17	Method of	17.1.	Tests	35 point of colloquial exams	

	assessment	17.2.	Active participation, seminar paper/project (oral/written presentation)			Seminar paper -10 points 5 point from presence
		17.3.	Final (oral) exam			60 points
18	Grading criteria (points / grade)	Up to 59 points				5 (five) (F)
		from 60 to 67 points				6 (six) (E)
		from 68 to 75 points				7 (seven) (D)
		from 76 to 84 points				8 (eight) (C)
		from 85 to 93 points				9 (nine) (B)
		from 94 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, and to present seminar paper; In order to take the final exam, the student should obtain the minimum points from activity and test; If the student has not obtained the minimum points in the continual assessments, he/she in next exam session will have paper part of the exam (40 points) and final exam (60 points)</p>				
20	Language of the course	English				
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 textbooks				
		No.	Author	Title	Publisher	Year
		1	Stephen Polgar, Shane A. Thomas	Introduction to Research in the Health Sciences	Elsevier Health Sciences	2013
		2	Judith Garrard	Health Sciences Literature Review Made Easy: The Matrix Method 5th Edition	Jones & Bartlett Learning	2016
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1	Марушиќ М, Петровечки М, Петрак Ј, Марушиќ А.	Вовед во научната работа во медицината	Култура	2003
		2	Wilson, E. Bright (Edgar Bright),	An Introduction to Scientific Research.	Newburyport : Dover Publications, 2012.	2012