

COURSE UNIT DESCRIPTION

Course unit title	Code
Research methodology II/III	

Lecturer(s)	Department(s)
Coordinating: Prof. dr.V.Brukienė Others: Prof. dr. V.Pečiulienė Assoc. prof. dr. V.Rutkūnas Assoc. prof. dr. R. Manelienė	Institute of Odontology Faculty of Medicine Vilnius university, Žalgirio str. 117, Vilnius

Cycle	Level of the course unit	Type of the course unit
Integrated studies		Compulsory

Mode of delivery	Period of delivery	Language of instruction
Face-to-face	IV Year, VIII semester;	English

Prerequisites and corequisites	
Prerequisites: A student must have completed the following courses: public health, dental public health, fundamentals of professional communication and psychosomatics, latin language and specialty language, Introduction to dentistry. Legal aspects and management of dental care. Ethics; research methodology I/III	Corequisites (if any): none

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
5	134	32	102

Purpose of the course unit Programme competences to be developed		
Purpose – to be able to write a research protocol; to have knowledge in biostatistics and its application in dental research.		
Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
After completion of this course student will be competent to:		
Write a research protocol.	Practice, consultations, self-study.	Presentation of research protocol.
Apply basic statistical methods in dental research.	Practice, consultations, self-study, active learning (group discussion, situation analysis)	

Topics	Contact work hours						Time and tasks of self-study		
	Lectures	Consultations	Seminars	Practice	Laboratory work	Practical training	Total contact hours	Self-study	Tasks
1. Research protocol.			4	8			12	90	Preparation of research protocol.
2. Biostatistics I: methods, variables, sampling.			6	4			10	6	Preparation for practice in statistical methods, variables and sampling.
3. Biostatistics II: measurements, associations, SPSS program.			6	4			10	6	Preparation for practice in measurements, introduction to SPSS program.
Total			16	16			32	102	

Assessment strategy	Weight (%)	Assessment period	Assessment criteria Obligatory attendance of seminars and practice
Presentation of research protocol.	Continuing assessment 100%	May	<ul style="list-style-type: none"> - structure of the research protocol (2 points); - formulation of the aims of the study (2 points); - quality of review of literature (2 points); - adequacy of methods chosen to meet the aims of the study (2 points); - relevance of statistical methods chosen (2 points).

Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
Required reading				
Abramson J.H., Abramson Z.H.	1991	Survey Methods in Community Medicine		Churchill Livingstone
Altman D.G.	1991	Practical Statistics for Medical Research		London, Chapman & Hall
Recommended reading				
J T Newton, E J Bower & A C Williams	2004	Research in primary dental care. Part 3: Designing your study.	British Dental Journal 2004; 196: 669-674.	J T Newton, E J Bower & A C Williams
J T Newton, E J Bower & A C Williams	2004	Research in primary dental care. Part 4: Measures	British Dental Journal 2004; 197: 739-746.	J T Newton, E J Bower & A C Williams
J T Newton, E J Bower & A C Williams	2004	Research in primary dental care. Part 5: Devising a proposal, obtaining funding and ethical considerations	British Dental Journal 2004; 197: 17-19.	J T Newton, E J Bower & A C Williams
A. Petrie, J. S. Bulman and J. F. Osborn	2002, 2003	Further Statistics in Dentistry. Part 1-10.	British Dental Journal 2002; 377-380, 435-440, 495-	A. Petrie, J. S. Bulman and J. F. Osborn

			498, 557-561, 621-625, 675-682; British Dental Journal 2003; 194: 17-21, 73-78, 129-134, 189-195.	
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