Course unit title:	Epidemiology and Biostatistics		
Course unit code:	NUR209		
Type of course unit:	Compulsory		
Level of course unit:	Bachelor (1st Cycle)		
Year of study:	2		
Semester when the unit is delivered:	4 (Spring)		
Number of ECTS credits allocated :	5		
Name of lecturer(s):	Alexis Samoutis		
Learning outcomes of the course unit:	1. Describe the basic definitions and concepts of epidemiology and biostatistics. 2. Define the purposes and uses of epidemiology 3. Describe the basic knowledge required to conduct epidemiological investigations 4. Describe the basic knowledge required to inform and educate people on prevention of communicable and non-communicable diseases 5. Extract conclusions from data 6. Design and manage projects for primary, secondary and tertiary prevention		
Mode of delivery:	Face-to-face		
Prerequisites:	None	Co-requisites:	None
Recommended optional program components:	None		
Course contents:	• **Introduction to the science of Epidemiology:** The milestones in the history of Epidemiology. The importance and the contribution in the advancement of health sciences • **Measuring health and disease:** Key points, definitions of health and disease, measurement of disease frequency, mortality, morbidity and comparison of cases • **Types of studies and basic biostatistics:** Observational and experimental epidemiology, possible errors and conclusions, collect and analyze data, meta-analysis • **Causality and prevention:** Finding the cause of disease, communicable and non-communicable diseases, epidemic and endemic diseases, primary-secondary and tertiary prevention, investigate and control of epidemics • **Clinical, environmental and occupational epidemiology:** Diagnostic tests, prognosis, treatment effectiveness, exposure, injuries, safety standards • **Health policy and planning:** Public health policy, critical reading and designing a research program		
Recommended and/or required reading:			
Textbooks:	• ***Basic epidemiology***, R. Bonita, R. Beaglehole and T. Kjellstrom, Paschalides publications, Athens 2009. • **Epidemiology-Principles and Methods. Applications**. Author: D. Trichopoulos. Publisher: Pasisianos. Athens 2011 • W.W. Daniel, **Biostatistics: Basic Concepts and Methodology for the**		

	Health Sciences, Wiley, 2010 • **Αρχές Βιοστατιστικής** Marcello Pagano, Kimberly Gauvreau, Μετάφραση Επιμέλεια: Ουρανία Δαφνή, Εκδοτικός Οίκος: Εκδόσεις έλλην
References:	1. Galanis P. **Research methodology in health sciences.** Publications "Kritiki", Athens, 2017 2. Galanis P. **Data analysis methodology in health sciences**. Applications with IBM SPSS Statistics. Broken Hill Publishers LTD & Publications "Paschalidis", Nicosia, 2015. 3. Galanis P. **Data and variables management in epidemiological studies**. Nursing 2011, 50:132-146 4. **Public Health in Greece.** Authors: G. Dimoliatis, G. Kyriakopoulos, D. Laggas and T. Philalethes. Publisher: Themelio, Athens 2006 5. **The Public Health in Primary Health Care**. Authors: E. Kornarou and A. Roumelioti. Publisher: Papazisis. Athens 2007 6. **Community Nursing – Population Health Promoting**. Authors: M.A. Nies, M.McEwen. Scientific editor: Despina Sapountzi-Krepia. Publisher: Lagos Dimitrios 2001
, Planned learning activities and teaching methods:	The course is delivered to the students by means of lectures, conducted with the help of computer-based presentations. Lecture notes and presentations are available through the web for students to use in combination with the textbooks.
Assessment methods and criteria:	• Tests: 50% • Final Exam 50%
Language of instruction:	Greek
Work placement(s):	No