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| Course Title | Epidemiology | | | |
| Course Code | NURS202 | | | |
| Course Type | Compulsory | | | |
| Level | Bachelor (1st Cycle) | | | |
| Year / Semester | 2 nd / Spring | | | |
| Instructor's Name | Dr Georgios Charalambous, Dr Michael Voniatis | | | |
| ECTS | 3 | Lectures / week | 2 | Laboratories/week |
| Course Purpose | The purpose of the first part of this course is to provide students with the main concepts of epidemiology and provide them with the knowledge and skills to the basic concepts of epidemiology, its historical evolution, its achievements and provide them with knowledge and skills for conducting epidemiological research on communicable and non-communicable diseases and the understanding and importance of published epidemiological studies conduct epidemiological investigations for communicable and non-communicable diseases. | | | |
| Learning Outcomes | <ul style="list-style-type: none"> - Describe the basic definitions and concepts of epidemiology - Describe a historical retrospection of epidemiology - Define the purposes and uses of epidemiology - Describe the basic knowledge required to conduct epidemiological investigations - Understand the importance of Descriptive and Analytical Epidemiology and the differences between them - Understand and use the concepts of Diseases and Its natural course as well as the Spectrum of the Disease - Comprehend the Chain of Infection - Understand the importance of epidemic levels of Disease - Describe the basic knowledge required to inform and educate people on prevention of communicable and non-communicable diseases - Design and manage projects for primary, secondary and tertiary prevention | | | |
| Prerequisites | None | Corequisites | None | |
| Course Content | <ul style="list-style-type: none"> - Introduction to the science of Epidemiology: The milestones in the history of Epidemiology. The importance and the contribution in the advancement of health sciences and its role in Public Health - The use and usefulness of Epidemiology and its functionality - Achievements of Epidemiology: eradication of Smallpox, elimination of Polio, Vaccinations. | | | |

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| | <ul style="list-style-type: none"> - Community health assessment (what is the risk, which populations are at risk, risk trends and fluctuations, and where they occur) - Understanding the epidemiological functions: Epidemiological Surveillance, Research in the epidemiological field, Analytical studies, Evaluation, Connections and Policy Development. - Measuring health and disease: Key points, definitions of health and disease, measurement of disease frequency, mortality, morbidity and comparison of cases. - Epidemiological Approach: We Measure, Calculate and Compare (Diagnostic criteria, case definition) - Natural progression of the disease and spectrum of disease (incubation time, latent period, disease spectrum, hosts) - Disease Chain (humans, animals, parasites, hosts in the environment) - Exit port, Entrance port (respiratory, gastrointestinal, skin, mucous membranes) - 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 |
| Teaching Methodology | <p>The course is delivered to the students by means of lectures and tutorials, 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. During the tutorials students are encouraged to participate in discussions and class work. At the same time, students are given problems and exercises to solve at home.</p> |
| Bibliography | <p>(a) <u>Textbooks:</u></p> <ul style="list-style-type: none"> • Fletcher., H. R., Fletcher, S. W. & Fletcher, G. S. (2020). <i>Κλινική Επιδημιολογία: Βασικά Σημεία</i> (5η Εκδ.). Επιστ. Εκδ. Παρισιανου • Fletcher, G. S. (2020). <i>Clinical Epidemiology: The Essentials</i>. LWW. <p>(b) <u>References:</u></p> <ul style="list-style-type: none"> • 2^η Έκδοση. Επιστ. Εκδ. Παρισιανου • R. Bonita, R. Beaglehole, T. Kjellström. (2006). <i>World Health Organization: Basic epidemiology</i> 2nd edition. Geneva, • The Public Health in Primary Health Care. Authors: E. Kornarou and A. Roumelioti. Publisher: Papazisis. Athens 2007 • Centers for Disease Control and Prevention. Framework for evaluating public health surveillance systems for early detection of |

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| | <p>outbreaks: recommendations from the CDC Working Group. MMWR May 7, 2004; 53(RR05);1–11.</p> <ul style="list-style-type: none"> Centers for Disease Control and Prevention. Interim guidance on infection control precautions for patients with suspected severe acute respiratory syndrome (SARS) and close contacts in households. Available from: http://emergency.cdc.gov/HAN/han00132.asp. <p>Centers for Disease Control and Prevention. Outbreak of West Nile-Like Viral Encephalitis–New York, 1999. MMWR 1999;48(38):845–9</p> <p><i>Through the services of the university library, access is provided to electronic repositories of scientific journals and articles, indicatively ProQuest, Cambridge University Press and Science Direct with thousands of scientific journals in the fields of health sciences.</i></p> |
| Assessment | <p>The assessment of this course consists of the coursework (midterm exam, assignment, class participation) and final exam.</p> <p>Mid-Term Exam: 20%. A written midterm exam will be comprised by multiple choice questions, short answer and open questions.</p> <p>Assignment: 20%. A literature review containing the following elements: abstract, Introduction, aim, Methodology, Bibliographic Research on the Subject under Study, Discussion – Conclusions and References. Length of the assignment: 3,000-3,500 words (2 students) or 2,000-2,500 words (1 student).</p> <p>Student Participation: 10%. The class participation includes formative assessments with interactive problem solving questions.</p> <p>Written Final Exam: 50%. A written final exam will be comprised by multiple choice questions, short answer and open questions.</p> |
| Language | Greek / English |