

Course Title	Hospital Acquired Infections and Prevention				
Course Code	NURS405				
Course type	Mandatory				
Level	Bachelor (1st Cycle)				
Year / Semester	4 th year / Fall				
Instructor	Dr Maritsa Gourni, Dr Kyriakos Neocleous				
ECTS	6	Lectures / week	3 + 1 *	Clinical teaching / week	2
Course Objectives	<p>The aim of the course is to offer a high level of knowledge and skills to students in the field of hospital-acquired infections. The ultimate goal of the theoretical course is to enable students to prevent and treat hospital-acquired infections and to proceed using the appropriate tools to design and implement strategies for the prevention of in-hospital spread.</p>				
Learning outcomes	<p>Upon completion of the course students will be able to:</p> <ul style="list-style-type: none"> - Possess the necessary theoretical knowledge regarding hospital-acquired infections. - Know and understand the prevention and control measures as well as the methods of surveillance, recording and monitoring of hospital-acquired infections. - Understand and analyze the activities of the Infection Control Committee with emphasis on the role of the Infection Control Nurse. - Implement and evaluate measures to control infections and limit the spread of pathogenic microbes. - Design and implement personalized care to patients with hospital-acquired infection. - Work excellently with all members of the health team. - Understand and implement infection control policies - Educate and cooperate excellently with the patient and his environment. - Interpret and define the content of the term "multidrug-resistant pathogens". 				

	<ul style="list-style-type: none"> - Understand and recognize the mechanism of antimicrobial resistance and prefer the rational use of antibiotics. - Design programs for the rational use of antibiotics. - Support the implementation of programs for the rational use of antibiotics and comply with their instructions. 		
Prerequisites	None	Co-Requisites	None
Course Content	<ul style="list-style-type: none"> - Definition and classification of Hospital Infections. - The value of applied epidemiology in the prevention of hospital-acquired infections. - Programs for the prevention and control of hospital-acquired infections. - Surveillance of hospital-acquired infections, - The institution of the Infection Surveillance Nurse. - Sources and routes of transmission of hospital-acquired infections – Endemic and Epidemic Infections. - Hand washing- Proper use of gloves: their importance in the prevention of hospital-acquired infections. - Safe collection, transport, sorting and washing of dirty clothing. - Instructions for the prevention of hospital-acquired infections transmitted by biological fluids, by direct-indirect contact, with endovascular devices. - Prevention of hospital urinary tract infections. - Prevention of nosocomial pneumonia. - Prevention of infections in patients with tumors. - Prevention of surgical infections. - Policy of use of disinfectants- antiseptics in the hospital. - Methods of disinfection- sterilization. - Methods of destruction and safe disposal of hospital waste. - Infections in special units - Cost of managing hospital-acquired infections - Recording of infections, protocols, guidelines. <p>Tutoring content</p> <ul style="list-style-type: none"> - Understanding the components of an infection control program. - Identification of common hospital-acquired infections of resistant microorganisms. - Compliance with regulations and international standards. - Infection control in the hospital. - Discussion of surveillance methods, infection rates and analysis of data. - Implementation of hospital-acquired infection control policies and surveillance programs. <p>Clinical Teaching</p>		

	<ul style="list-style-type: none"> - Monitoring and participation in the activities at hospitals Infection Control Department. - Data collection, implementation of appropriate infection control measures. - Planning and participation in continuing education programs for staff in matters related to the field of infection control. - Take precautions and implement measures to treat hospital infections. - Vaccinations of health personnel. - Hospital waste management. - Participation in the activities of the National Infection Control Center.
<p>Teaching Methodology</p>	<p>Theory</p> <p>The course is delivered to the students through lectures, using computer-based presentations programmes. Case Studies, Discussion, Questions / Answers are also used depending on the content of the lecture. Lecture notes and presentations are available online for use by students in combination with textbooks. Relevant material published in international scientific journals are also used to follow the latest developments related to the subject of the course.</p> <p>Clinical Teaching</p> <p>In clinical teaching, the method of demonstration and guided and supervised by the clinical instructors is used to implement various nursing operations / procedures and application of personalized nursing care.</p> <p>Tutoring</p> <p>Students will also have the opportunity during the tutoring exercises to understand and consolidate the theoretical part of the course.</p>
<p>Bibliography</p>	<p>(a) <u>Textbooks:</u></p> <p>Bennett, J., Brachman, P. (2017). Hospital-Acquired Infections. Medical Publications P.C. Paschalidis. (In Greek)</p> <p>Weber, D., & Talbot, T. (2021). <i>Hospital epidemiology and infection prevention</i>. Wolters Kluwer.</p> <p>Thomas, V. (2020). <i>Fundamental aspects of Infection Prevention and control (Vol. 1)</i>. Andrews UK Limited.</p> <p>(b) <u>References:</u></p> <p>Bearman, G., Munoz-Price, S., Morgan, D. J., & Murthy, R. K. (2018). <i>Infection Prevention</i>. Cham Springer International Publishing.</p> <p>Apostolopoulou, E. (2016). Infections Related to Health Care, Athens</p> <p>Wigglesworth, N. (2021). Infection prevention and control in the twenty-first century: The era of patient safety. In <i>Germs and governance</i> (pp . 247-256). Manchester University Press.</p>

	<p>Alhumaid , S., Al Mutair , A., Al Alawi, Z., Alsuliman , M., Ahmed, GY, Rabaan , A. A. , ... & Al-Omari, A. (2021). Knowledge of infection prevention and control among healthcare workers and factors influencing compliance: A systematic review. <i>Antimicrobial Resistance & Infection Control</i> , 10 (1), 1-32</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 evaluation of the course consists of continuous assessments (coursework: mid-term examination, clinical teaching evaluation, written assignment) and final examination.</p> <p>Midterm exam: 30%. The written mid-term exam consists of multiple-choice questions, short answer questions and open questions.</p> <p>Written assignment: 10%. Development of a nursing care plan according to the nursing process for a clinical case from clinical teaching / practice.</p> <p>Clinical Teaching assessment: 10%. It is applied by daily assessment of student performance when providing personalized nursing care to individuals, families and communities, in accordance with the course's clinical goals. (Absences of up to 15% are replenished, and beyond this percentage the student fails the entire course. Students must succeed an assessment of at least 50%, otherwise the student fails the entire course.)</p> <p>Final exam: 50%. The written final exam includes multiple-choice questions, short answers and open questions.</p>
Language	Greek / English