

Course Title	Cardiovascular Diseases Nursing				
Course Code	NURS411				
Course type	Elective				
Level	Bachelor (1st Cycle)				
Year / Semester	4th year / Spring				
Instructor	Dr Maritsa Gourni, Dr Eleni Kletsiou				
ECTS	4	Lectures / week	3	Laboratories / week	-
Course Objectives	The aim of the course is to offer a high level of knowledge and skills to students in the field of Cardiovascular Nursing. This course prepares students to acquire the basic knowledge in cardiology nursing, both in everyday clinical practice and at theoretical level with the ultimate goal of designing and implementing holistic nursing care.				
Learning outcomes	<p>Upon successful completion of the course, the student will be able to:</p> <ul style="list-style-type: none"> - Possess the necessary theoretical knowledge concerning the field of Cardiovascular Diseases. - Know and apply ways of evaluation such as (taking a history, clinical examination, scheduling patient examinations during hospital admission as well as scheduling tests to monitor chronically ill patients). - Understand and apply appropriate nursing care in acute and chronic diseases of the cardiovascular system. - Work excellently with all members of the health team - Interpret and evaluate the ECG as well as the results of other imaging tests - Evaluate cardiac and cardiac surgery patients, prioritize their needs and design a personalized care plan following the framework of the nursing process. - Know and analyze the action and side effects of the most commonly used cardiac medicines. - Know and analyze the principles of operation of the technological equipment used in the respective departments (ventilators, monitors, pumps, cardiac support machines, pacemakers, defibrillators, electrocardiographs, etc.). - Understand the importance of preventing heart disease, both in their primary and secondary forms - Apply the basic principles of bioethics (informing a patient, obtaining a consent document when needed) - Participate in the therapeutic process by critically reviewing the relevant literature. - Design and implement a personalized patient education program aimed 				

	at preventing and increasing their level of self-care.		
Prerequisites	None	Co-Requisites	None
Course Content	<ul style="list-style-type: none"> - Anatomy and physiology of the cardiovascular system. - Heart diseases (coronary artery disease, valvular heart diseases, diseases of the thoracic aorta, heart failure, arrhythmias). - Diagnostic approach of the heart disease. The role of the nurse. - Rapid ECG interpretation (identification of dangerous ECGraphic lesions). - Hemodynamic monitoring. - Coronary artery disease (Chronic coronary artery disease, Acute coronary syndromes). - Interventional cardiology (Hemodynamic laboratory Revascularization of coronary arteries). - Chronic heart disease. - Arrhythmias and conduction disorders - access algorithms (supraventricular, ventricular, brady-arrhythmias). Treatment of arrhythmias. - Implantable devices (pacemaker, implantable cardioverter - Defibrillator). - Heart failure (etiology, pathophysiology, classification, nursing care). - Valvular heart diseases - Cardiomyopathies and nursing treatment. - Congenital heart disease and nursing care. - Infections of the heart (pericarditis, endocarditis, myocarditis) and nursing care. - Diseases of aorta and peripheral arteries (aortic aneurysm, peripheral artery disease, arteritis) and nursing care. - Cardiogenic shock and nursing care. - Arterial hypertension and nursing treatment (prevention-intervention-rehabilitation). - Introduction to interventional cardiology and cardiac surgery nursing. - Preoperative assessment and preparation of patients who are about to undergo heart surgery. - Intraoperative patient care. Cardiopulmonary bypass – Myocardial protection. - Postoperative monitoring and patient care in the resuscitation unit. - Heart transplantation (care of patients from the pre-transplant period until discharge from the hospital after transplantation). - Sudden Death-Arrest-Cardiopulmonary resuscitation. - The role of the nurse in the administration of cardiology medicines. - Psychosocial problems of patients with heart disease. 		
Teaching Methodology	<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</p>		

	<p>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>
Bibliography	<p>(a) Textbooks:</p> <p>Giannakoulas, G. (2022). <i>Cardiology</i> (1st ed.). Rotunda Publications. (In Greek)</p> <p>Jennings, C., Astin, F., Fitzsimons, D., Lambrinou, E., Neubeck, L., & Thompson, D. R. (2022). <i>ESC Textbook of Cardiovascular Nursing</i>. Oxford University Press.</p> <p>Perpetua, E.M., & Keegan, P. A. (2021). <i>Cardiac nursing : the red reference book for cardiac nurses</i>. Wolters Kluwer.</p> <p>(b) References:</p> <p>Anthopoulos, L., Anthopoulos, P. & Festeridou, C. (2010) <i>Handbook of Cardiology of the Nurse, with emphasis on holistic care and prevention</i> (1st ed.). Parisianos Publications S.A. (In Greek)</p> <p>Anastasiou-Nana, M., Iliodromitis, E., Lekakis, I., Paraskevaidis, I., Rizos, I., & Filippatos, G. (2013). <i>Handbook of Cardiovascular Diseases B' Cardiology Clinic of the University of Athens</i>. Editions E.C. Paschalidis. (In Greek)</p> <p>Olson, K. (2014). <i>Oxford handbook of cardiac nursing</i>. Oxford Oxford University Press.</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, active participation in the classroom) and final examination.</p> <p>Midterm exam: 40%. The written mid-term exam consists of multiple-choice questions, short answer questions and open questions.</p> <p>Student participation: 10%. Participation in the classroom includes educational assessments with interactive problem-solving questions.</p> <p>Final exam: 50%. The written final exam includes multiple-choice questions, short answers and open questions.</p>
Language	Greek / English