

Course Title	Intensive Medicine				
Course Code	NURS412				
Course type	Elective				
Level	Bachelor (1st Cycle)				
Year / Semester	4 ^o / Fall or Spring				
Instructor	Dr Vasiliki Diamantidou				
ECTS	4	Lectures / week	3	Laboratories / week	0
Course Objectives	The purpose of Intensive Care is to provide theoretical knowledge and skills to physicians so that they will be able to make a correct and accurate assessment of the patients, in order to make the right interventions to treat patients admitted to the ICU in a life-critical situation.				
Learning outcomes	<ul style="list-style-type: none"> - List the knowledge related to the hospitalization of patients in the ICU - Evaluate the condition of patients with electrolyte problems, acid-base balance, bleeding and hemostasis. - Discuss the need for transfusions and the specifics of pharmacotherapy for patients admitted to the ICU. - Know the care techniques for dealing with patients in shock, with respiratory failure and acute respiratory distress syndrome, obstructive respiratory diseases in the ICU and mechanical support for breathing. - Assess the risk of patients with coronary heart disease, heart problems, circulatory shock. - Recognize which patients need immediate cardiopulmonary resuscitation. - Know the specifics of pharmacotherapy for patients admitted to the ICU. - Analyze pulmonary embolism, fat embolism, air embolism, pneumothorax, hemothorax etiology, clinical picture and prognosis. - Know and treat patients with HIV and other ICU infections. - Plan and implement therapeutic approaches as well as the implementation of appropriate nursing interventions in critically ill patients. - • Recognize the psychosocial effects of hospitalization in the ICU 				
Prerequisites	None		Co-Requisites	None	
Course Content	<ul style="list-style-type: none"> - Concepts related to intensive care and the philosophy that governs it - Electrolytes and acid-base balance, bleeding and hemostasis, 				

	<p>Transfusion and peculiarities of pharmacotherapy for patients admitted to ICU. Antithrombotic therapy in the ICU.</p> <ul style="list-style-type: none"> - Patients with coronary heart disease and heart problems, circulatory shock, cardiopulmonary resuscitation, hemodynamic monitoring in the ICU. - Treatment of patients IN shock, respiratory failure and acute respiratory distress syndrome. Obstructive respiratory diseases in the ICU. Mechanical support for breathing. - Pulmonary embolism, fatty embolism, air embolism, etiology, clinical picture, diagnosis, prognosis. Pneumothorax, haemothorax. - Patients with HIV and other infections of patients in the ICU and their treatment. Sepsis, pathophysiology, clinical picture, treatment. - Regulatory changes in the endocrine systems of severely ill patients, diabetes mellitus and complications, urgent thyroid disease. - Acute pancreatitis - Renal insufficiency, gastrointestinal insufficiency, thunderous liver failure. - Multi-organ failure syndrome. - Neurosurgical, neurological problems in the ICU, Vascular surgery cases in the ICU. Acute abdominal surgery - Oncology patients in the ICU - Patients in the ICU with damage from environmental factors, electric shock, lightning strike, heatstroke, hypothermia, burns, drug poisoning. - Transplantations, - • Monitoring and imaging methods in the ICU.
Teaching Methodology	<p>The course is delivered to the students by means of lectures, conducted with the help of computer-based presentations and group work. Lectures presentations are made available for students for use in combination with the recommended textbooks.</p>
Bibliography	<p>(a) <u>Textbooks:</u></p> <p>Irwin, R. S., Lilly, C. M., Mayo, P. H., & Rippe, J. M. (2017). <i>Irwin and Rippe's Intensive Care Medicine</i>. LWW.</p> <p>Κουτσούκου, Α. (2015). <i>Βασικές Αρχές Εντατικής Θεραπείας</i>. ΣΕΑΒ ΚΑΛΛΙΠΟΣ (In Greek)</p> <p>Bersten, A. D., & Handy, J. (2018). <i>Oh's Intensive Care Manual</i>. Elsevier - Health Sciences Division.</p> <p>(b) <u>References:</u></p> <p>Deutschman, C., & Neligan, P. (2020). <i>Evidence-Based Practice of Critical Care</i>. Elsevier.</p>

	<p>Morton, P. G., & Fontaine, D. K. (2017). <i>Critical Care Nursing: A Holistic Approach</i>. LWW.</p> <p>Vincent, J.-L., Fink, M. P., Abraham, E., Kochanek, P., & Moore, F. A. (2016). <i>Textbook of Critical Care</i>. Elsevier.</p> <p>Marino, P. (2007). <i>Μοναδα Εντατικής Θεραπείας</i>. Ιατρ.Εκδ.Λαγος Δημητριος (In Greek)</p> <p>Marino, P. L. (2013). <i>ICU Book</i>. Lippincott Williams & Wilkins.</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) and final exam.</p> <p>Mid-Term Exam: 40%. A written midterm exam will be comprised by multiple choice questions, short answer and open questions.</p> <p>Active participation of students in the class: 10% which includes educational 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