

Course Title	Intensive Care Nursing						
Course Code	NURS 403						
Course Type	Compulsory						
Level	BSc (Level 1)						
Year / Semester	4 th / Fall						
Instructor's Name	Dr Evanthia Asimakopoulou						
ECTS	6	Lectures / week	3	Laboratories/ week	2	Clinical practice / week	5
Course Purpose	The aim of the course is to acquire theoretical and clinical knowledge that will enable accurate assessment and proper nursing intervention in the treatment of critical situations in patients in Intensive Care Units (ICU). Special attention is given to the biopsychosocial theory, respect and dignity in patients ICU treatment. At the end of the course students will be able to recognize the needs of a patient in ICU and provide care using the Nursing Process.						
Learning Outcomes	<p>By the end of the course, students should be able to:</p> <ul style="list-style-type: none"> - Illustrate the basic nursing care of critically ill, body hygiene, feeding of the patient and medication administration in ICU. - Recognize patients' needs and implement nursing care plans for patient monitoring, vital signs, patient ventilation support, management for Central Venous Catheter (CVC) and Swan-Ganz catheter. - Describe the care of patients with mechanical support of breathing, during the intubation procedure, taking arterial blood gases, during endotracheal suction and with Bullau catheter. - Explain the principles of sedation, analgesia and neuromuscular blocking agents in the ICU. - Plan and implement therapeutic approaches as well as the implementation of appropriate nursing interventions in critically ill patients with respiratory, cardiovascular disorders, shock, multiorgan failure and systemic trauma in the ICU. - Infer, educate and supervise patients and their families about the use of skills and interventions for optimal patient care at home. - Recognize the psychosocial effects of hospitalization in the ICU. 						
Prerequisites	NURS308			Co-requisites	None		
Course Content	- Introduction to Intensive Care - Management of Intensive Care Units (ICU)						

	<ul style="list-style-type: none"> - Pathophysiology of the critically ill and general principles of intensive care - Hemodynamic control and monitoring in the ICU - Oxygen therapy, non-invasive and invasive mechanical ventilation in the ICU - Fluid and electrolyte disturbances - Acid-base disorders - Sedation and analgesia in the ICU - Nursing care for patients with Respiratory Disorders in the ICU - Nursing care of patients with Cardiovascular disorders in the ICU - Cardiopulmonary resuscitation in the ICU - Nursing care for patients with renal insufficiency and eating disorders - Infections and sepsis in the ICU - Multi-organ dysfunction - Shock - Multisystem Trauma in the ICU - Brain death - The psychosocial effects of hospitalization in the ICU <p>Laboratory: Techniques and nursing interventions according to the theoretical content of the course, such as: Patient evaluation and nursing care for the critically ill, advanced life support and resuscitation in the ICU, hemodynamic monitoring, respiratory and renal support, sedation and analgesia.</p> <p>Clinical practice: Students under the guidance of clinical instructors' practice in nursing procedures related to the course content and provide individualized nursing care <i>in Intensive Care Units</i> according to the Clinical Education Guide.</p>
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 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>Laboratory</p> <p>During the laboratory courses, students develop their clinical skills in skill trainers and patient simulators so that they can successfully and safely apply them in a real clinical environment.</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</p>

	operations / procedures and application of personalized nursing care.
Bibliography	<p>(a) Textbooks: Marshall, A., Aitken, L., & Chaboyer, W. (2019). <i>Critical Care Nursing</i>. Elsevier - Health Sciences Division.</p> <p>Urden. L., Stacy, K. & Lough, M. (2018). <i>Προτεραιότητες στην Εντακτική Νοσηλευτική Φροντίδα Υγείας</i> 7η έκδοση, Mosby Elsevier. (In Greek)</p> <p>Πανεπιστημιακή Πνευμονολογική Κλινική ΕΚΠΑ ΓΝΑ "Σωτηρία" (2019). <i>Νοσηλευτικές Διαδικασίες στη Μονάδα Εντατικής Θεραπείας</i>, Εκδόσεις: University Studio Press (In Greek)</p> <p>(b) References: Deutschman, C., & Neligan, P. (2020). <i>Evidence-Based Practice of Critical Care</i>. Elsevier.</p> <p>Woodrow, P. (2019). <i>Intensive Care Nursing A Framework for Practice</i> (4th ed.). Routledge.</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>Morton, P. G., & Fontaine, D. K. (2017). <i>Critical Care Nursing: A Holistic Approach</i>. LWW.</p> <p>Marino, P.L. (2016). <i>Μονάδα Εντατικής Θεραπείας</i>, 4η Έκδοση, Ιατρικές Εκδόσεις Λαγός (In Greek)</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>Baird, M., Keen, J. & Swearingen, P. (2011). <i>Επείγουσα νοσηλευτική – ΜΕΘ, Νοσηλευτικές παρεμβάσεις και συνεργατική αντιμετώπιση επιμέλεια: Μπαλτόπουλος Γ.Ι. Βήτα Ιατρικές Εκδόσεις (In Greek)</i></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 the course consists of the coursework (midterm exam, laboratory assessment, clinical practise assessment) and final exam.</p> <p>Mid-Term Exam: 30%. A written midterm exam will be comprised by multiple choice questions, short answer and open questions.</p> <p>Laboratory assessment: 10%. The laboratory assessment includes a practical and oral examination of students in nursing techniques and interventions according to the course content. (Absences of up to 15% are</p>

	<p>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>Clinical assessment: 10%. Clinical assessment includes the presence, active participation and implementation of clinical goals in clinical area and is applied by the clinical trainer / supervisor. (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>Written Final Exam: 50%. A written final exam will be comprised by multiple choice questions, short answer and open questions.</p>
Language	Greek / English