

## Course Plan of (Critical care nursingI)

### Course Description:

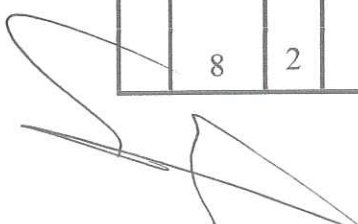
Critical care nursing is a specialized field of nursing focused on providing care to patients who are critically ill or at high risk for life-threatening conditions. These patients typically require close monitoring, advanced medical interventions, and continuous support. Critical care nurses, often referred to as ICU (Intensive Care Unit) nurses, play a vital role in maintaining the health and stability of patients in critical condition. Below is a detailed description of critical care nursing

### Course Content:

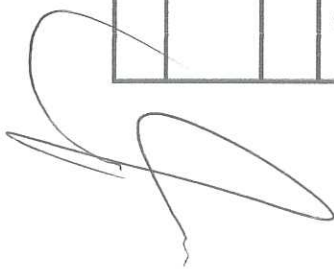
#### A – Theoretical Aspect:

Cont act hours	N o. of W ee ks	Sub Topics List	Units/Topics List	O r d e r
4	1	<ul style="list-style-type: none"> <li>Overview of critical care environments (ICU, CCU, trauma units, etc.)</li> <li>Roles and responsibilities of critical care nurses</li> <li>Ethical and legal issues in critical care (e.g., informed consent, end-of-life care)</li> <li>Communication with families and interdisciplinary teams</li> </ul>	1. <i>Introduction to Critical Care Nursing</i>	1
4	1	<ul style="list-style-type: none"> <li><b>Physical Assessment:</b> Systematic head-to-toe assessment techniques for critically ill patients</li> <li><b>Vital Signs Monitoring:</b> Interpretation of blood pressure, heart rate, respiratory rate, and oxygen saturation</li> <li><b>Hemodynamic Monitoring:</b> Central venous pressure, pulmonary artery pressure, and cardiac output monitoring</li> <li><b>Neurological Monitoring:</b> Glasgow Coma Scale, intracranial pressure</li> </ul>	, 2. <i>Advanced Patient Assessment and Monitoring</i>	2

			monitoring		
	4	1	<ul style="list-style-type: none"> <li>Acute coronary syndrome, myocardial infarction, and heart failure</li> <li>Electrocardiogram (ECG) interpretation and arrhythmia management</li> <li>Advanced cardiac life support (ACLS) protocols</li> <li>Use of pacemakers, defibrillators, and other cardiac devices</li> </ul>	3. Management of Cardiac Conditions	3
	4	1	<ul style="list-style-type: none"> <li>Management of patients on mechanical ventilation</li> <li>Non-invasive ventilation techniques (e.g., CPAP, BiPAP)</li> <li>Care for patients with respiratory failure, ARDS, COPD, and pneumonia</li> <li>Interpretation of arterial blood gases (ABGs)</li> </ul>	4. Respiratory Care in Critical Care	4
	4	1	<ul style="list-style-type: none"> <li>Fluid and electrolyte balance in critically ill patients</li> <li>Renal replacement therapies, including dialysis in the ICU</li> <li>Management of acute kidney injury and chronic renal failure</li> </ul>		5
	4	1	<ul style="list-style-type: none"> <li>Care for patients with traumatic brain injury (TBI), stroke, and seizures</li> <li>Neurological assessments and intracranial pressure monitoring</li> <li>Care of unconscious or comatose patient</li> </ul>	6. Management of Neurological Conditions	6
	2	1	Midterm exam		7
	8	2	<ul style="list-style-type: none"> <li>Management of sepsis and septic shock</li> <li>Prevention and management of</li> </ul>	7. Infectious Diseases and Sepsis	8




			<p>hospital-acquired infections (e.g., ventilator-associated pneumonia, central line infections)</p> <ul style="list-style-type: none"> <li>• Use of antibiotics and antimicrobial stewardship in critical care</li> </ul>		
	4	1	<p>Initial assessment and management of trauma patients</p> <p>Airway management, chest injuries, burns, and hemorrhage control</p> <p>Emergency response protocols, triage, and mass casualty management</p>	<p><b>8. Trauma and Emergency Care</b></p>	9
	4	1	<ul style="list-style-type: none"> <li>• Critical care pharmacology, including vasoactive drugs, sedatives, and analgesics</li> <li>• Safe administration and monitoring of high-alert medications</li> <li>• Drug-drug interactions and adverse reactions in critically ill patients</li> </ul>	<p><i>9. Pharmacology in Critical Care</i></p>	10
	4	1	<ul style="list-style-type: none"> <li>• Enteral and parenteral nutrition in the critically ill</li> <li>• Managing metabolic disorders (e.g., diabetic ketoacidosis, hyperglycemia)</li> <li>• Nutritional support for patients with organ failure</li> </ul>	<p><i>10. Nutrition and Metabolic Support</i></p>	11
	4	1	<p>Palliative care and ethical decision-making in critical care settings</p> <p>Management of comfort care and withdrawal of life support</p> <p>Communicating with families about prognosis and end-of-life decisions</p>	<p><b>11. End-of-Life Care in the ICU</b></p>	
	4	2	<p>Strategies for coping with the emotional and psychological challenges of critical care nursing</p> <p>Importance of teamwork and collaboration in the ICU</p> <p>Continuous professional development and certifications in critical care</p>	<p><b>12. Professional Development and Self-Care</b></p>	




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2	1	Final exam		1 2
6 0	1 6	Number of Weeks /and Units Per Semester		

B - Practical Aspect:				
Learning Outcomes	contact hours	Number of Weeks	Tasks/ Experiments	Order
-	4	1	Introduction to Critical Care Nursing	
	4	2	2. Advanced Patient Assessment and Monitoring	
	4	2	3. Management of Cardiac Conditions	
	4	2	. Respiratory Care in Critical Care	
	4	2	6. Management of Neurological Conditions	
	4	2	7. Infectious Diseases and Sepsis	
	8	4	8. Trauma and Emergency 9. Pharmacology in Critical Care 10. Nutrition and Metabolic Support 11. End-of-Life Care in the ICU 1. End-of-Life Care in the ICU	
	32	16		
			Number of Weeks /and Units Per Semester	