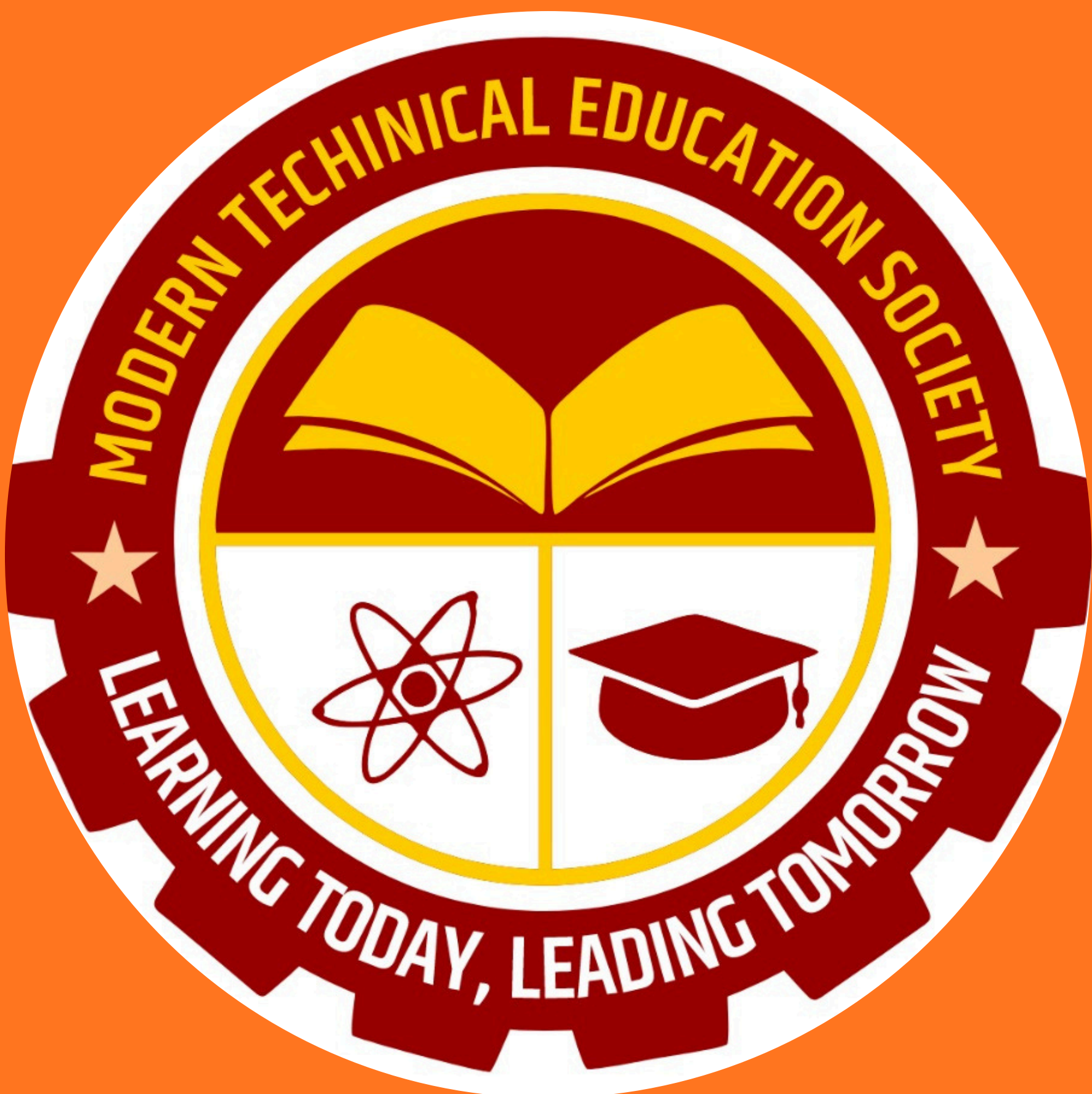


# MODERN TECHNICAL EDUCATION SOCIETY

# ICU



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## *Certificate for Intensive Care Unit*

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**Duration:** 06Months ( 24 Weeks)

**Credit Hours:** CH 18

06 Theory CH and 10 Skill CH+ Clinical CH

Prepared By:	National Reviewers:	International Reviewers:
Humaira Athar (Principal RCN)		
Imran Masih (Nursing Faculty RCN)		
Sobia Ishtiaq Nursing Faculty		

Dated: August-2025

<b>Course Title:</b>	
<b>Discipline:</b>	Critical Care Nursing
<b>Target Audience:</b>	<ul style="list-style-type: none"> <li>• Staff Nurses</li> <li>• Nursing Internee</li> <li>• GBSN students year-4</li> </ul>
<b>Pre-requisites:</b>	<ul style="list-style-type: none"> <li>• Must Be registered Nurses</li> <li>• One Year Clinical Experience</li> </ul>
<b>Course Credit Hours:</b>	<ul style="list-style-type: none"> <li>• Duration 06 Months</li> <li>• Credit hours:               <ul style="list-style-type: none"> <li>CH Theory 08 ( hrs/week)</li> <li>CH Skills Lab 12.5 ( hrs/week)</li> <li>CH Clinical Practicum 15 (hrs/week)</li> </ul> </li> <li>Total: contact hours/week</li> <li>• Session Days               <ul style="list-style-type: none"> <li>Theory: Monday: 08:00 am – 12:00 pm</li> <li>Tuesday: 08:00 am – 12:00 pm</li> <li>Clinical: Three days/week 08 hours shift</li> </ul> </li> </ul>
<b>Course Duration:</b>	<b>Total duration and Format:</b>
<b>Rationale for the course:</b>	Critically ill patients require highly specialized, continuous, and evidence-based care to ensure survival and improve outcomes. With the rising prevalence of complex health conditions such as sepsis, multi-organ failure, myocardial infarction, stroke, trauma, and postoperative complications, there is an increasing demand for nurses equipped with advanced knowledge and skills in critical care.
<b>Course Goal:</b>	The goal of the Critical Care Nursing Certificate Course is to **prepare registered nurses with advanced knowledge, clinical competence, and professional skills required to provide safe, evidence-based, and holistic care to critically ill patients in diverse healthcare settings**, while fostering critical thinking, ethical decision-making, interdisciplinary collaboration, and leadership in critical care practice.

<b>Course Learning Outcomes(CLO):</b>	<p><b><u>Knowledge Domain:</u></b></p> <ol style="list-style-type: none"> <li>1. Recall C1 – Remembering. Define key concepts, terminologies, and principles related to critical care nursing (e.g., hemodynamics, ventilator settings, acid-base balance).</li> <li>1. Explain (C2 – Understanding):</li> <li>2. C3 – Applying Demonstrate the ability to apply evidence-based guidelines in prioritizing and managing critically ill patients.</li> <li>3. C4 – Analyzing. Differentiate between normal and abnormal physiological parameters by interpreting arterial blood gases, ECGs, hemodynamic data, and laboratory findings.</li> <li>4. C5 – Evaluating. Critically appraise research evidence, treatment protocols, and nursing interventions to ensure safe and effective critical care practice.</li> </ol> <p><b><u>Psychomotor Domain:</u></b></p> <ol style="list-style-type: none"> <li>2. By the end of the Critical Care Nursing Certificate Course, the nurses will be able to competently demonstrate a wide range of clinical and technical skills essential for managing critically ill patients. Learners will begin by imitating and practicing basic procedures such as monitoring vital signs, setting up oxygen therapy, and inserting intravenous lines under supervision. As competence develops, they will manipulate and perform tasks independently, including safe medication administration, infusion pump management, and preparation of emergency drugs. With further precision, nurses will be able to accurately carry out advanced skills such as arterial blood sampling, ECG lead placement, and suctioning techniques with minimal errors. They will then progress to articulating and coordinating multiple skills by independently managing ventilators, central venous lines, and defibrillators while strictly adhering to infection control standards.</li> </ol>
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	<p>Ultimately, nurses will achieve naturalization or mastery, smoothly performing complex emergency interventions such as cardiopulmonary resuscitation, advanced airway management, and rapid response to life-threatening arrhythmias, while also demonstrating the ability to mentor and teach these skills to peers and junior staff.</p> <p>3. <b><u>Affective Domain:</u></b></p> <p>By the end of the Critical Care Nursing Certificate Course, the nurse will develop professional attitudes, ethical values, and compassionate behaviors essential for critical care practice. Learners will begin by demonstrating a willingness to listen, receive feedback, and show sensitivity toward patients and families facing life-threatening conditions. As they progress, they will respond actively by participating in team discussions, respecting diverse perspectives, and engaging empathetically with patients in distress. They will then value the principles of patient safety, dignity, and holistic care by integrating ethical decision-making and cultural sensitivity into daily practice. At a higher level, nurses will organize and internalize these values by consistently demonstrating accountability, prioritizing patient-centered care, and balancing professional responsibilities with empathy and respect for human life. Ultimately, they will characterize these affective skills by embracing a professional identity as critical care nurses who not only deliver safe and ethical care but also advocate for patients' rights, support families during crises, and serve as role models of integrity, compassion, and teamwork within the healthcare system.</p>
<b>Course Overview and Description:</b>	<p>The Critical Care Nursing Certificate Course is designed to enhance the knowledge, clinical skills, and professional competence of registered nurses working in high-acuity healthcare settings. This course emphasizes evidence-based practice, advanced patient monitoring, life-saving interventions, and interdisciplinary collaboration to prepare nurses</p>

	<p>for the complex demands of caring for critically ill patients. Through a blend of theoretical instruction, clinical simulations, and hands-on training in intensive care environments, participants will gain the expertise required to deliver safe, effective, and compassionate care to patients with life-threatening conditions.</p> <p>This certificate course provides a structured learning experience that equips nurses with specialized competencies in critical care nursing. The curriculum covers essential concepts such as advanced cardiovascular and respiratory management, ventilator and hemodynamic monitoring, pain and sedation management, infection prevention and control, and emergency response to life-threatening conditions. Nurses will learn to recognize and manage complications such as sepsis, shock, multi-organ dysfunction, myocardial infarction, and postoperative instability. In addition to clinical expertise, the course fosters critical thinking, ethical decision-making, effective communication, and teamwork skills necessary for functioning within multidisciplinary critical care teams. By the end of the course, participants will be prepared to assume expanded roles in intensive care units (ICUs), emergency departments, and other critical care settings, thereby contributing to improved patient safety, quality of care, and overall health outcomes.</p>
<b>Instruction strategies:</b>	<p><b>Knowledge:</b></p> <p><b>Psychomotor:</b></p> <p><b>Affective:</b></p>
<b>Assessment Policy:</b>	<p><b>1. Formative Assessment:</b></p> <ul style="list-style-type: none"> <li>Throughout the contact session, constructive feedback will be provided to the learners about their progress by the teachers &amp; peers.</li> </ul> <p><b>2. Summative Assessment:</b></p> <p><b>Pass criteria:</b> A student must attain 60% marks in aggregate.</p> <p><b>Grades:</b> 59% and below = Fail, Extra assignments may be given to pass</p>

	<p>(remediation).</p> <p>60-69 % = Fair- B, grade</p> <p>70-79 % = Good- A, grade</p> <p>80 % and above=Excellent -A+ grade</p>
<b>Training Resources for the course:</b>	Learning materials will be provided by the course coordinator as and when needed. Relevant web site will be informed for literature search for self-study. Moellim will be used as uploading of course material and assignment.
<b>Accrediting Body</b>	Riphah International University, Islamabad, Pakistan
<b>Certificate Validity</b>	As Riphah International University is a federally chartered institution recognized by the Higher Education Commission (HEC) of Pakistan, the certification issued upon successful completion of this course does not require a stated expiration or validity period. The certificate serves as a permanent record of achievement and professional development, subject to the university's academic standards and verification protocols.