



After completing initial generalist nursing education, the critical care nurse will have successfully completed specialist education in critical care (or intensive care) nursing. In meeting the complex needs of critically ill patients, such nurses require a well-developed knowledge base, along with specialist skills in both the technological and the caring dimensions of critical care nursing. This course aims to produce nurses able to meet such demands.

**Course objective:**

- Apply the critical thinking in identifying the critical condition Neurological, cardiac, emergency and burn condition.
- Demonstrate the ability to assess critically ill patients with the different invasive devices & machines and their families
- Provide comprehensive nursing care for the critically ill patients with the different acute and life threatening conditions and their families
- Demonstrate sound clinical judgment in providing nursing care within the critical care setting.
- Communicate effectively with clients, families, and health care professionals in the delivery of quality health care within the critical care setting.
- Demonstrate competency in the implementation of advanced therapeutic nursing interventions.
- Use theoretical and research based knowledge in planning and providing nursing care in the critical care setting.
- develop the student's ability to respond to changing needs in critical care in an analytical way.

**Student's obligation**

Students have to consider the following obligations in order to pass this module successfully:

- Punctuality: they have to come on time for both theoretical and practical part of this module
- Active participation is very important in both theory and practice
- Having professional appearance, attitude and behaviour is very important and students continuously observed in both theory and practical part for this module
- Students will evaluate by their teacher and clinical instructors, several times by writing exams like quizzes, theory exams and theory on practice exam.
- Students should perform different assignments like report, seminar and essay in both theory and practice part.

## **Forms of teaching**

lecture halls with data show equipment for lecture presentations, white board, overhead projector, posters

The Lecture will be delivered through variety of methods as the following:

1. PowerPoint Presentation
2. White Board
3. Some Books
4. Group activity and peer working
5. Clinical demonstration
6. clinical conference
7. individual learning, and clinical training
8. Seminar
9. Report
10. Essay

## **Written Work:**

Students are expected to prepare professional, polished written work. Written material must be typed in the format required by the instructor.

## **Clinical Skills:**

in clinical settings, students learn techniques and skills like:

1. Effective use of personal protective equipments in critical settings
2. Effective communication with staff, patients and their caregivers.
3. Proper usage of equipments and devices in the critical settings.
4. Performing critical nursing procedures like suctioning, wound dressing, urinar catheterization, change dressing, medication administration, NGT insertion an entral feeding, CPR skills, ETT insertion, oxygenation, basic ECG interpretatio and ECG taking procedure, cardiac monitorng, ABG taking and interpretatio skills, skills of checking level of consciousness (GCS),...
5. Physical examination

## **Requirement Degree of Accesses**

At the end of course the student should obtain degree not less than 50% for theory and practices.

**Assessment scheme**

25% Mid Term (Theory and practical)

5% Quiz

30% Assignment (report, paper, homework, seminar..)

25% final practical

15% final theory

**Specific learning outcome:**

At the end of this course the student will be able to:

- Apply the nursing process in caring critical care patients.
- Utilize evidence-based information derived from course related research finding in the application of critical nursing care.
- Identify theoretical principles in clinical settings during care for patients in the critical areas.
- Use critical thinking skills as a framework for clinical decision-making.
- Demonstrate responsibility for own behavior and growth as an adult learner and a professional.
- Demonstrate professional standards of moral, ethical, and legal conduct in critical areas.

**Course Reading List and References:**

- Patrica , Doriss "Carolyn ,Barbara .Critical Care Nursing A Holistic Approach, 8th edition. Lippincott Williams and Wilkans.
- Linda, Kathleen, Mary . Critical care nursing ; diagnosis and management, fifth edition. Mosby publication
- Sheila, Sou . Critical Care Nursing; science and practice. Second edition. Oxford medical publication.
- Phipps, W., Cassmeyer, V., Sands, J., & Lehman, M. (1999). Medical-surgical nursing: Concepts and clinical practice (5th ed.). St. Louis: Mosby.

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<b>Course topics (Theory)</b>	<b>Week</b>
Characteristic of critical care nursing and systematic assessment	1 <sup>st</sup>
Acute myocardial infarction & Angina	2 <sup>nd</sup>
Basic ECG interpretation	3 <sup>rd</sup>
Acute pulmonary embolus & Pulmonary edema	4 <sup>th</sup>
Status asthmaticus & Asphyxia	5 <sup>th</sup>
Seizure disorders & Cerebral embolic events	6 <sup>th</sup>
Nursing care common to all neurologic disorders & Head trauma & Intracranial hemorrhage	7 <sup>th</sup>
Acute spinal cord injuries & Toxic ingestions	8 <sup>th</sup>
Acute renal failure & dialysis Hepatic failure and hepatic coma	9 <sup>th</sup>
Shock & Acute hypoglycemia	10 <sup>th</sup>
First aid and Basic life support	11 <sup>th</sup>
Advance life support	12 <sup>th</sup>
<b>Practical Topics (If there is any)</b>	<b>Week</b>
Introduction to critical care areas, rules, principles and staff, physical examination	1 <sup>st</sup>
Intruduction to medical devices in the critical areas (cardiac monitoring	2 <sup>nd</sup>



	<p>patient on bed rest)</p> <p>2. An elderly man with a <i>history of stable angina</i> is admitted to your unit for observation after receiving urgent treatment for status asthmaticus (patient`s current disease). The nurse notes that he's becoming increasingly anxious and <i>dyspneic</i>. The nurse's most appropriate initial response would be to:</p> <p>a) administer a sedative to help him relax</p> <p>b) prepare to administer epinephrine 0.3 ml S.c. every 20 minutes for up to 3 doses to promote bronchodilation</p> <p>c) assist the patient into a sitting position and have him lean over the bedside table to lessen his feeling of air hunger</p> <p>d) ask a family member to stay with the patient for emotional support</p> <p>3. The nurse assesses the respiratory status of a patient admitted to the ICU with bacterial pneumonia. The nurse can expect to find which of the following signs and symptoms?</p> <p>a) Decrease white blood cell (WBC) count</p> <p>b) Crackles and wheezes over the affected lobes</p> <p>c) Nonproductive cough</p>
Short answer	<p>d) Low-grade or absent fever</p> <p>1. What is nursing management for patient with acute respiratory infection? (mention four items)</p> <p>2. Mention four sign and symptom for acute pulmonary emboli disease?</p>
True or false	<p><input type="checkbox"/> One of the important treatment for asthmatic patients is administer sedative drugs like diazepam to the patient</p> <p><input type="checkbox"/> Diffusion of gases between the air and the blood takes place in the upper airways</p>

### Clinical evaluation (area evaluation)

In the clinical area students will be observed by clinical instructors completely and they evaluate by clinical instructors by special evaluation tool. The following clinical evaluation tool should be used for evaluating of students in the clinical areas:

**The following tool is intended to serve as a guide for evaluating students in the hospital**

No	Professional attitude aspect	Score	Note
<b>1</b>	<b>Personal appearance</b>		
	Clean skin, nails, teeth and Tidy hair	<b>0.25</b>	
	Clean and neat uniform	<b>0.25</b>	
	Watch, pen and equipments	<b>1</b>	
<b>2</b>	<b>Manners and attitude</b>		
	Punctuality	<b>0.5</b>	
	Honesty	<b>0.5</b>	
<b>3</b>	<b>Relationships</b>		
	Appreciates and accepts others' points of view	<b>0.5</b>	
<b>4</b>	<b>Dependability</b>		
	Uses good judgement	<b>0.5</b>	
<b>5</b>	<b>Knowledge and understanding</b>		
	Shows understanding of principles of nursing care	<b>0.75</b>	
	Shows understanding of nursing procedures	<b>0.75</b>	
<b>6</b>	<b>Nursing skills</b>		
	Gives necessary explanation to patients	<b>1</b>	
	Applies correct principles in skills technique	<b>1</b>	



	Uses time and effort efficiently	<b>1</b>	
	Appearance of finished work	<b>1</b>	
<b>7</b>	<b>Records and reports</b>		
	Accurate and concise written records	<b>0.5</b>	
	Neat, legible and punctual written records	<b>0.5</b>	
	<b>Total Score</b>	<b>10</b>	

**Notes:**

- 1- If the student is not attending in one day he or she must takes zero in the daily evaluation.**
- 2- The student will document late if the student coming late more than 5 minutes.**
- 3- Three late will documented as absence for one full day.**

**Instructor's comments:**-----  
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<b>Extra notes:</b>	
<b>External Evaluator</b>	

