



## Course Specification

Course name: Critical Care Nursing. Course stage: fourth year /Second Semester

Credit Hours 6 Course Calendar: Total (14) hours Weekly (Theory (2) hrs. Clinical (12) hrs).

Teacher name: Dr. Roula Mohammed Hydar Abboud Certificate: PhD in Critical Care Nursing

Asst. Lect. Hadi Jazan. Certificate: Master in Critical Care Nursing

General objectives / Goals	Clinical related skills/ if present ...	
<ul style="list-style-type: none"> <li>-Identify the critical care Nursing Roles</li> <li>-Distinguish and manage the different type of shock and stroke</li> <li>- Interpret the ventilator parameters.</li> <li>- Assess and manage the ventilated patients.</li> <li>-Distinguish the different types and degree of burns</li> <li>-Able to identify and manage (Pulmonary embolism, pleural effusion and pneumothorax).</li> <li>-Interpret the ABGs values</li> <li>-Interpret the (ECG waves)</li> <li>-Apply basic and advanced life support techniques</li> <li>-Monitor the patient hemodynamically</li> </ul>	<ul style="list-style-type: none"> <li>➤ Arterial puncture &amp; (ABGs)</li> <li>➤ Endotracheal Intubation</li> <li>➤ Endotracheal tube care</li> <li>➤ Endotracheal tube suctioning</li> <li>➤ Tracheostomy tube care</li> <li>➤ Endotracheal tube cuff care</li> <li>➤ Thoracic cavity management</li> <li>➤ CPR</li> <li>➤ Precordial shock</li> <li>➤ Central venous pressure management</li> </ul>	
<b>Methods of teaching (theory)</b> <ul style="list-style-type: none"> <li>- Lectures</li> <li>- Group Discussion</li> <li>- Assignments</li> <li>- Case studies</li> </ul>	<b>Clinical teaching methods</b> <ul style="list-style-type: none"> <li>-Lab Lectures</li> <li>- Demonstration of Critical Skills</li> <li>- Group discussion</li> <li>- Practical sessions in Hospital</li> <li>- Assignments and Case studies</li> </ul>	
<b>Methods of evaluation</b> <ul style="list-style-type: none"> <li>-Clinical Performance:Hospital 10% + Lab 5%</li> <li>- Assignments 5%</li> <li>- Quiz 5%</li> <li>- Months exam 10%</li> <li>- Attendance 5%</li> <li>- Final exam 60%</li> <li>(40% theory and 20% practice)</li> </ul>	<b>Degree percentages/ divisions:</b>	
	<b>Theory</b>  60	<b>Clinical / (hospital &amp; Lab)</b>  40
<b>Resources and references:</b> <ul style="list-style-type: none"> <li>- Burns S. AACN Essentials of Critical Care Nursing (2014), 3<sup>rd</sup> ed. McGraw-Hill</li> </ul>		

Education, Toronto.

- Morton P and Fontain D. Critical care nursing: A holistic approach (2013), 10<sup>th</sup> ed.  
Wolters Kluwer Health | Lippincott Williams & Wilkins, Sydney.

**List of contents:**

Week number	Lecture Title	Main Contents	Expected Date/
1.	Introduction to Critical Care Nursing. (2) hrs.	- Introduction - Critical Care Nursing Roles - Classification of critically ill patients - Characteristics of Critical Care Units	4\2\2024
2.	Arterial blood gases (ABG's) values, compensatory mechanisms and management(2) hrs.	Describe the normal values for- ABG's -.Explain the compensatory mechanism -The possible causes and signs & Symptoms of .Acid–Base disorders -Nursing Management	11\2\2024
3.	ABG's Interpretation. (2) hrs.	-Interprate the ABGs results (Respiratory- Acidosis & Alkalosis) (Metabolic- Acidosis & .Alkalosis) and compensation	18\2\2024
4.	Hemodynamic monitoring. (2) hrs.	-Hemodynamic parameters and its procedures.	25\2\2024
5.	Review of Conduction System . (2) hrs.	-Basics of ECG Interpretation (ECG waves) -Normal sinus Rhythm -Heart rate measurement methods -Proper ECG placement -Cardiac axis -Dysrhythmia (Shockable-and Non-Shockable)	3\3\2024
6.	First aid. (2) hrs.	-Basic Life support -Advance Life support	10\3\2024
7.	<b>First monthly exam</b>		17\3\2024
8.	Shock. (2) hrs.	- Classification of Shock -Stages of Shock -Clinical Alert of Shock -Medical Management -Nursing Management	24\3\2024
9.	Pulmonary Embolism. (2) hrs.	Definition , Pathophysiology, Etiology Signs and Symptoms, Diagnostic study Complications, Prevention Therapeutic measures, Nursing care plan	31\3\2024
10.	Pleural Effusion Hemo &Pneumo thorax. (2) hrs.	Pathophysiology, Etiology History, Physical Findings,Diagnostic tests , Nursing diagnosisand Therapeutic Measures	7\4\2024
11.	Mechanical	Defin itionthe Mechanical ventilation	14\4\2024

	Ventilation. (2) hrs.	Indications, the criteria of institution of ventilatory support, Modes, Setting and Complications of Mechanical Ventilation	
12.	Weaning from Mechanical Ventilation. (2) hrs.	-Weaning from mechanical ventilation. -Nursing care plane of patient on mechanical ventilation.	21\4\2024
13.	Cerebral Vascular Accident. Stroke (2) hrs.	-Stroke Classification -Ischemic strokes -Risk factors for transient ischaemic attack/stroke -Diagnostic Criteria -Early Management -Haemorrhagic stroke -Types of hemorrhagic strokes: ICH and SAH -Causes and Risk factors -Clinical Presentation of Intracerebral Hemorrhage -Diagnosis of Haemorrhagic stroke -Medical and nursing management	28\4\2024
14.	Burns. (2) hrs.	o Stages and Degree o Types (Inhalation Burn, Electrical Burns, Radiation Burns and Chemical Burns) o Primary and secondary survey guidelines (assessment and management guidelines) o Healing process	5\5\2024
15.	Acute Renal Failure/Acute Kidney Injury	-Anatomy and Physiology Review -Causes of ARF -Categories of Acute Renal Failure -Phases of Acute Renal Failure -Diagnosis of ARF -Medical Management of Acute Kidney Injury -Nursing Management of Acute Kidney Injury	12\5\2024

Signature:



Date: 28\1\2024

Head of

department signature:

Faculty Dean approval:

