1. Course Name:

Critical Care Nursing- Fourth-year- First semester- Course code: WNR-42-03

2. Available Attendance Forms:

Spread- sheet

3. Number of Credit Hours (Total) / Number of Units (Total)

(6) Hours, (2) theory and (4) practice.

4. Course administrator's name (mention all, if more than one name)

Name: Lecturer Roula Mohammad Abboud & Asst. Lect. Hadi Jazan

Email: roula.ab@uowa.edu.com & hadi.ja@uowa.edu.com

5. Course Objectives

Upon completion of this course, the student will be able to:

1. Identify the critical care Nursing Roles
2. Distinguish and manage the different type of shock and stroke
3. Interpret the ventilator parameters.
4. Assess and manage the ventilated patients.
5. Distinguish the different types and degree of burns
6. Able to identify and manage (Pulmonary embolism, pleural effusion and pneumothorax).
7. Interpret the ABGs values
8. Interpret the (ECG waves)

9. Apply basic and advanced life support techniques

10. Monitor the patient hemodynamically

6. Teaching and Learning Strategies and methods

Methods of teaching (theory)

1. Lectures
2. Group Discussion
3. Assignments
4. Brain storming.
5. Case studies

Clinical teaching methods

1) Lab Lectures
2) -Demonstration of Critical Skills
3) Group discussion
4) Practical sessions in Hospital
5) Assignments and Case studies

7. Course Structure

Theory (Weeks: 12, Hours: 2\ week), Practice (Weeks: 12, Hours: 8\ week)

8. Required Learning Outcomes

1- Describe the critical care and emergency environment.

2- Explain the critical care machines (mechanical ventilator, heart monitoring, DC shock, ABG's machine and pulse oximeter).

3- Identify the medications used in critical care and emergency department.

4- Analyse laboratory test and diagnostic test.

5- Assess the patient (patient's interview, physical examination and file).

6- Formulate nursing care plane.

7- Apply nursing care plane for critically ill patient.

8- Evaluate the provided care and its effect (pre- post).

9. Course Evaluation

Methods of evaluation

-Clinical Performance:

- Hospital 10%
- Lab 5%

- Assignments 5%
- Quiz 5%
- Months exam 10%
- Class activity and Attendance 5%

Total 40%

- Final exam 60% (40% theory and 20% practice)

Degree percentages/ divisions:

Theory: 60%

Clinical (hospital+ lab): 40%

10.Learning and Teaching Resources
Resources and References: - Burns S. AACN Essentials of Critical Care Nursing (2014), 3rd ed. McGraw-Hill Education, Toronto. - Morton P and Fontain D. Critical care nursing: A holistic approach (2013), 10th ed. Wolters Kluwer Health | Lippincott Williams & Wilkins, Sydney. - Lynn P. and LeBon M. Skill checklists for clinical nursing skills (a nursing process approach) 2011, 3rd ed. Lippincott Williams & Wilkins, London.

List of contents:

N	Lecture Title	Main Contents	Date/
1.	**Introduction (2) hrs.**	- Introduction	**18\1\2025**
2.	**Critical Care Nursing. (2) hrs.**	- Critical Care Nursing Roles **-** Classification of critically ill patients **-** Characteristics of Critical Care Units	**25\1\2025**
3.	**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	**1\2\2025**
4.	**ABG's Interpretation.** **(2) hrs.**	-Interprate the ABGs results) Respiratory- Acidosis & Alkalosis)) Metabolic- Acidosis & Alkalosis) and compensation.	**8\2\2025**
5.	**Mechanical Ventilation. (2) hrs.**	Definition the Mechanical ventilation Indications, the criteria of institution of ventilatory support, Modes, Setting and Complications of Mechanical Ventilation	**15\2\2025**

6.	**Weaning from Mechanical Ventilation. (2) hrs.**	-Weaning from mechanical ventilation. -Nursing care plane of patient on mechanical ventilation.	**22\2\2025**
7.	**Hemodynamic monitoring. (2) hrs.**	-Hemodynamic parameters and its procedures.	**1\3\2025**
8.	**First aid. (2) hrs.**	-Basic Life support -Advance Life support	**8\3\2025**
9.	**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)	**15\3\2025**
10.	**Shock. (2) hrs.**	- Classification of Shock -Stages of Shock -Clinical Alert of Shock -Medical Management -Nursing Management	**22\3\2025**
11.	**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	**29\3\2025**
12.	**Cerebral Vascular Accident. Stroke (2) hrs.**	-Stroke Classification: 1- Ischemic strokes -Risk factors for transient ischaemic attack/stroke -Diagnostic Criteria - Early Management -2-Haemorrhagic stroke -Types of hemorrhagic strokes: ICH and SAH -Causes and Risk factors -Clinical Presentation of Intracerebral Hemorrhage	**5\4\2025**

		-Diagnosis of Haemorrhagic stroke -Medical and nursing management	
13.	**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	**12\4\2025**
14.	**Pulmonary Embolism.** **Pleural Effusion Hemo & Pneumo thorax. (2) hrs.**	Definition , Pathophysiology, Etiology Signs and Symptoms, Diagnostic study Complications, Prevention Therapeutic measures, Nursing care plan	**19\4\2025**

Signature **Date…13\ 1\ 2025…….**

Head of department signature . ….

فرع تمريض

الصحة النفسية والعقلية