



Course Plan: Theoretical of Critical Care & Emergency Nursing

Course Plan: Theoretical Foundations of Critical Care & Emergency Nursing

Course Title: Critical Care & Emergency Nursing (Theory)

Target Audience: Third-Level Nursing Students

Academic Year: 2025-2026

Lecturers: Dr. Gehan Abdel hakem Younes

Dr. Nahla Mohamed Mahmoud

Course Description:

This course provides a comprehensive theoretical foundation for nursing care of critically ill adult patients. It covers the fundamental principles of critical care and emergency nursing, including ethical and legal responsibilities, communication, and triage. The curriculum is structured around a systems-based approach to the nursing management of acute cardiovascular, respiratory, gastrointestinal, hepatic, and neurological emergencies. Special topics such as nutritional support, palliative care, and mechanical ventilation are also explored to prepare students for the complex environment of the ICU and Emergency Department.

General Learning Objectives:

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

- Describe the role and responsibilities of the nurse in the critical care and emergency setting.
- Analyze common ethical and legal issues encountered in critical care.
- Apply effective communication strategies with critically ill patients and their families.
- Utilize the principles of triage to prioritize patient care in an emergency setting.
- Develop comprehensive nursing care plans for patients experiencing acute cardiovascular, respiratory, neurological, and metabolic emergencies.
- Differentiate the pathophysiology and nursing management of various critical conditions such as ACS, acute heart failure, respiratory failure, and increased intracranial pressure.
- Explain the principles of mechanical ventilation and nutritional support for the critically ill patient

Course Schedule and Content

The course is divided into seven modules.

Module 1: Foundations of Critical & Emergency Care

Lecturer:Dr. **Nahla Mohamed Mahmoud**

Lecture No. Topic

- | | |
|----------|---|
| 1 | Overview about critical care and emergency nursing |
| 2 | Ethical and legal issue in critical care |
| 3 | Communication in ICU |
| 4 | Triage |

Module 2: Management of Acute Cardiovascular Emergencies

Lecture No. Topic

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|----------|-----------------------------------|
| 5 | Acute coronary syndrome |
| 6 | Acute heart failure in ICU |
| 7 | Cardiogenic shock |
| 8 | Hypertensive crisis |

Module 3: Management of Acute Gastrointestinal & Hepatic Emergencies

Lecture No. Topic

- | | |
|-----------|-------------------------------|
| 9 | Acute pancreatitis |
| 10 | Acute liver failure |
| 11 | Hepatic encephalopathy |
| 17 | GIT bleeding |

Module 4: Management of Acute Respiratory Emergencies

Lecturer(s):Gehan Abdel hakem Younes

- | Lecture No. | Topic | Lecturer |
|--------------------|-------------------------------|------------------|
| 12 | Mechanical ventilation | Dr. Jehan |
| 15 | Common Chest injuries | TBD |
| 16 | Respiratory failure | TBD |

Module 5: Management of Acute Neurological Emergencies

Lecture No. Topic

- | | |
|-----------|---------------------------------|
| 18 | Traumatic brain injuries |
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Lecture No. Topic

19	Spinal cord injuries
20	Status epilepticus
21	Intracranial hypertension
22	Cerebrovascular accident (Stroke)

Module 6: Management of Endocrine & Renal Emergencies**Lecture No. Topic**

23	Diabetic emergencies
24	Acute kidney injury

Module 7: Special Topics in Critical Care**Lecture No. Topic**

13	Nutrition disorders in ICU
14	Palliative care

Teaching & Learning Methods:

- Interactive Lectures with multimedia presentations (PowerPoint, videos).
- Case Study Analysis and Discussion.
- Assigned Readings from core textbooks and clinical guidelines.
- Quizzes and knowledge-check activities.

Student Assessment Methods:

- Class Participation and Quizzes
- Midterm Examination
- Final Written Examination

Course Coordinator

Dr Nahla Afify