

Course Specification

II. Course Identification and General Information:						
1	Course Title:	Critical Care Nursing III				
2	Course Code & Number:	MCCN04				
3	Credit hours: 4	C.H				TOTAL
		Th.	Seminar	Pr	Tr.	
		2	-	-	2	4
4	Study level/ semester at which this course is offered:	First year/ second semester				
5	Pre –requisite:					
6	Co –requisite :	-				
7	Program (s) in which the course is offered:	Critical care nursing				
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty of Nursing				
10	Prepared By:	Dr. Abdulhameed Ali Lotf Al-Thifani				
11	Date of Approval	2022				

III. Course Description:

This course is a continuation of critical care nursing. The course is designed to assist nurses in advancing their expertise and knowledge in the field of critical care nursing. Nurses are able to develop advanced skills in caring for critically ill patients using nursing process. It enables them to function as critical care nurse specialist. It further enables them to function as educator, manager practitioner, and researcher in the field of Critical Care Nursing. The course covers two major concepts -neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma. The course deals with the presentation, management, and nursing intervention of patients with oncology. Toxic ingestion and antidote discussed.

III. Intended learning outcomes of the course (ILCOs) and their alignment to Program Intended learning outcomes (PILOs)

ILCOs	PILOs
1. Identify the terms related to comfort and sedation, ways to assess the patient for pain, discomfort, confusion, agitation and anxiety and the common pharmacologic and non-pharmacologic management.	A1
2. State the causes, clinical symptoms and management of delirium and dementia.	A4
3. Analyze benefits and challenges of parental and enteral nutrition and ways to assess and monitor effectiveness of nutritional supplementation	B1
4. Describe the classifications and the types of shock found in each class, the causes, the pathophysiology, progression, clinical presentation, diagnostic lab results and management of each shock state.	A4
5. Describe nursing care plan for patient with neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma. Interpret how vasoactive medications are used to improve blood pressure, cardiac output, contractility and reduce SVR and calculate accurate dosages of vasoactive medications and their infusion rates.	A5 B1
6. Define palliative care and end of life care and ways to support patients and their families during and after bad news is given and the management of the dying patient in the ICU.	A3 D5
7. Discuss the ethical and legal issues that arise when making end of life decisions.	A4
8. Describe the classification of burns, primary and secondary assessment of burn patient and a trauma patient using ABCDE and management of burn and trauma patients.	
9. Apply nursing care for critically ill patient with neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma.	C5

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
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a1. Identify the terms related to comfort and sedation, ways to assess the patient for pain, discomfort, confusion, agitation and anxiety and the common pharmacologic and non-pharmacologic management.	Lecture Discussion – critical thinking Role playing and case study reviews	Essay type Short answer Objective type
a3. Define palliative care and end of life care and ways to support patients and their families during and after bad news is given and the management of the dying patient in the ICU.	Lecture Discussion – critical thinking Role playing and case study reviews	Essay type Short answer Objective type
a4. State the causes, clinical symptoms and management of delirium and dementia.	Lecture Discussion – critical thinking Role playing and case study reviews	Short answer Objective type
a4. Describe the classifications and the types of shock found in each class, the causes, the pathophysiology, progression, clinical presentation, diagnostic lab results and management of each shock state.	Lecture Discussion – critical thinking Role playing and case study reviews	Short answer Objective type
a4. Describe the classification of burns, primary and secondary assessment of burn patient and a trauma patient using ABCDE and management of burn and trauma patients.	Lecture Discussion – critical thinking Role playing and case study reviews	Short answer Objective type
a5. Describe nursing care plan for patient with neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma.	Lecture Discussion –	Short answer Objective type
(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1. Interpret how vasoactive medications are used to improve blood pressure, cardiac output, contractility and reduce SVR and Calculate accurate	Lecture Discussion – critical thinking	Short answer Objective type

dosages of vasoactive medications and their infusion rates.		
b1. Analyze benefits and challenges of parental and enteral nutrition and ways to assess and monitor effectiveness of nutritional supplementation.	Lecture Discussion – critical thinking	Short answer Objective type
b1. Recognize components and normal values of the conduction system and the related PQRST of the ECG tracing and hemodynamic monitoring.	Lecture Discussion – critical thinking Case study reviews	Short answer Objective type
b1. Explain when mechanical ventilation is needed and how the ventilator modes and settings are determined.	Lecture Discussion – critical thinking	Short answer Objective type
b4. Differentiate normal and abnormal values for ABG analysis; respiratory acidosis, respiratory alkalosis, metabolic acidosis and metabolic alkalosis	Lecture Discussion – critical thinking Case study reviews	Short answer Objective type

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c2. Apply leads for cardiac monitoring, interpret and monitor cardiac rhythms	Clinical session Presentation Role playing Case study reviews Log book & Assignments Activities	Short answer Objective type Clinical performance Clinical exam
c2. Monitor hemodynamic status, and recognize signs and symptoms of hemodynamic instability	Clinical session Presentation Role playing Case study reviews Log book & Assignments Activities	Short answer Objective type Clinical performance Clinical exam
c2. Apply pulmonary therapeutic interventions related to mechanical	Clinical session Presentation	Short answer Objective type

ventilation such as airway clearance, intubation, weaning, extubation, respiratory monitoring devices, therapeutic gases, thoracentesis and tracheostomy with mechanical ventilation.	Role playing Case study reviews Log book & Assignments Activities	Clinical performance Clinical exam
c4. Manage patients requiring 12-lead ECG, arterial catheter, cardiac catheterization, cardioversion, central venous pressure monitoring, defibrillation and invasive hemodynamic monitoring.	Clinical session Presentation Role playing Case study reviews Log book & Assignments Activities	Short answer Objective type Clinical performance Clinical exam
c5. Apply nursing care for critically ill patient with neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma.	Clinical session Presentation Role playing Case study reviews Log book & Assignments Activities	Short answer Objective type Clinical performance Clinical exam
(D) Alignment Course Intended Learning Outcomes of General and Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d5. Discuss the ethical and legal issues that arise when making end of life decisions.	Lecture Discussion – critical thinking	Short answer Objective type

IV. Course Content:					
A – Theoretical Aspect:					
Order	Units/Topics List	Sub Topics List	No. of Weeks	Contact hours	Learning Outcomes
1	Comfort and Sedation	<ul style="list-style-type: none"> • Definition the terms: pain, discomfort, confusion, agitation, anxiety, comfort and sedation scales • Delirium, Dementia signs & symptoms • Confusion 	1	2	a1,a4

		<ul style="list-style-type: none"> • Pharm and non-pharm therapies 			
2	Nutritional Support	<ul style="list-style-type: none"> • Assessing nutritional status • Enteral and Parenteral nutrition • Monitoring nutritional status and determining if needs are met • Nursing care of patient with nutritional disorders 	1	2	b1,a5
3	Shock States: Distributive, Hypovolemic, Cardiogenic & Obstructive	<ul style="list-style-type: none"> • Etiology & Pathophysiology • Clinical Signs & Symptoms, including hemodynamics • Management – Pharmacologic & Non-pharmacologic • Evaluation of Treatment Plan • Goals of Care • Nursing Care for patients in shock states 	2	4	a4,a5
4	Neurological disorders	<ul style="list-style-type: none"> • Nursing management including advanced neurological assessment, common diagnostics, pharmacology and neurological emergencies for the following topics: <ul style="list-style-type: none"> ○ Stroke ○ cerebrovascular accident ○ Acute spinal cord injury ○ Neurosurgery ○ Head injury ○ seizure disorders ○ Guillein Barre-syndrome 	4	8	a4,a5,b1,d3

		<ul style="list-style-type: none"> ○ myasthenia gravis ○ Coma ○ encephalopathy ● Management modalities: Assessment of intracranial pressure, management of intracranial hypertension, craniotomy, problems related to neurological disorders: thermo regulation, Unconsciousness, herniated disc syndrome. 			
5	Midterm exam		1	2	a1,a4,a5, b1
6	Hematology, oncology and immune diseases.	<ul style="list-style-type: none"> ● General overview of the changes in red blood cells (RBCs) ● Immune activity and coagulation function. ● Assessment and management of specific lesions are discussed. ● Presentation, management, and nursing intervention of patients with oncology. ● Toxic ingestion and antidote discussed. 	2	4	b1,b4
7	Trauma-related Injuries	<ul style="list-style-type: none"> ● Traumatic Injury – Penetrating & Blunt ● Management of patients with trauma. ● Nursing care of trauma patients 	1	2	a4,a5
8	Burns	<ul style="list-style-type: none"> ● Classification, pathophysiology, clinical features, evaluation, diagnosis, prognosis, treatment of burns. 	2	4	a1,a4,a5, b1

		<ul style="list-style-type: none"> • Fluid and electrolyte therapy - calculation of fluids and its management • Pain, Wound care • infection control • prevention and management of complications burns • grafts and flaps, reconstructive surgery and rehabilitation • Nursing care of patients with burn 			
9	End of Life Care	<ul style="list-style-type: none"> • Breaking Bad News to Patients and/or their families • Managing the dying patient in the ICU • Ethical and Legal Issues at the End of L 	1	2	a3,a5,d5
10	Final exam		1	2	a1, a3,a4, a5,b1,b4, d5
Number of Weeks /and Units Per Semester			16	32	

B - Clinical Aspect:				
Order	Tasks/ Experiments	Number of Weeks	Contact hours	Learning Outcomes
1	Nursing care of patient with nutritional disorders	1-2	6	c4
2	Nursing care of patient with shock states: Distributive, hypovolemic, Cardiogenic & Obstructive	3-4	6	c2,c4.c5
3	Nursing care of neurological disorders	5-8	12	c2,c4.c5
4	Nursing care of patient with hematology, oncology and immune diseases.	9-10	6	c2,c4.c5
5	Nursing care of trauma-related injuries	11-12	6	c2,c4.c5
6	Nursing care of burn patients	13-14	6	c2,c4.c5

7	Nursing care of patients with end of Life	15	3	c2,c4.c5
8	Final clinical exam	16	3	c2,c4.c5
Number of Weeks /and Units Per Semester		16	48	-

V. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	<ul style="list-style-type: none"> Principles, modes and settings of mechanical ventilation Complications of ventilator 	b1,b4	5-10	10

VI. Schedule of Assessment Tasks for Students During the Semester

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Student assignment	5th - 12th week	10	10 %	a1,a3,a4,a5,b1, b4,d5,c2,c4.c5
2	Presentation	4 st - 14 th week	20	20 %	a1,a3,a4,a5,b1, b4,d5,c2,c4.c5
3	Mid-term exam	7th or 8th week	20	20%	c2,c4.c5
4	Final exam	16th-17th week	50	50 %	a1,a3,a4,a5,b1, b4,d5
Total Theory Weight			100	100%	

VII. Learning Resources:

1- Required Textbook(s)	
	1. Sole, Klein & Moseley.(2013). Introduction to Critical Care Nursing (6th Edition). US: Saunders Goldman, M. (2007). 2. Pocket Guide to the Operating Room (3rd Edition). Philadelphia: Davis. Carlson, K. (2009). 3. AACN Advanced Critical Care Nursing. Saunders. Chapter 14, pages 297-318.
2- Essential References.	
	1. Siegel, M. (2009).End-of-Life Decision Making in the ICU. Clinical Chest Medicine, 30, 181-194
3- Electronic Materials and Web Sites etc.	
	http://www.google.com

VIII. Course Policies:

1.	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
2.	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
3.	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
4.	Assignments & Projects: Assignments and projects will be assessed individually unless the teacher request for group work
5.	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
6.	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

Course Plan (Syllabus)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr. Abdulhammed Al-Thifani	Office Hours					
Location&Telephone No.	736650016	SAT	SUN	MON	TUE	WED	THU
E-mail	althifanil@hotmail.com	x					

II. Course Identification and General Information:						
1.	Course Title:	Critical care nursing III				
2.	Course Number & Code:	MCCN04				
3.	Credit hours: 4	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		2	-	-	2	4
4.	Study level/year at which this course is offered:	First year/ second semester				
5.	Pre –requisite:	-				
6.	Co –requisite :	-				
7.	Program (s) in which the course is offered	Critical care nursing				
8.	Language of teaching the course:	English				
9.	System of Study:	Semester system				
10.	Mode of delivery:	Full time				
11.	Location of teaching the course:	Faculty of Nursing				

III. Course Description:	
<p>This course is a continuation of critical care nursing. The course is designed to assist nurses in advancing their expertise and knowledge in the field of critical care nursing. Nurses are able to develop advanced skills in caring for critically ill patients using nursing process. It enables them to function as critical care nurse specialist. It further enables them to function as educator, manager practitioner, and researcher in the field of Critical Care Nursing.</p>	

IV. Intended learning outcomes (ILOs) of the course:

1. Identify the terms related to comfort and sedation, ways to assess the patient for pain, discomfort, confusion, agitation and anxiety and the common pharmacologic and non-pharmacologic management.
2. State the causes, clinical symptoms and management of delirium and dementia.
3. Analyze benefits and challenges of parental and enteral nutrition and ways to assess and monitor effectiveness of
4. nutritional supplementation
5. Describe the classifications and the types of shock found in each class, the causes, the pathophysiology, progression, clinical presentation, diagnostic lab results and management of each shock state.
6. Describe nursing care plan for patient with neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma. Interpret how vasoactive medications are used to improve blood pressure, cardiac output, contractility and reduce SVR and calculate accurate dosages of vasoactive medications and their infusion rates.
7. Define palliative care and end of life care and ways to support patients and their families during and after bad news is given and the management of the dying patient in the ICU.
8. Discuss the ethical and legal issues that arise when making end of life decisions.
9. Describe the classification of burns, primary and secondary assessment of burn patient and a trauma patient using ABCDE and management of burn and trauma patients.
10. Apply nursing care for critically ill patient with neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma.

V. Course Content:

- Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Comfort and Sedation	1	2
2	Nutritional Support	2	2
3	Shock States: Distributive, Hypovolemic, Cardiogenic & Obstructive	3-4	4
4	Neurological disorders	5-8	8
5	Midterm exam	9	2

6	Hematology, oncology and immune diseases.	10-11	4
7	Trauma-related Injuries	12	2
8	Burns	13-14	4
9	End of Life Care	15	2
10	Final exam	16	2
Number of Weeks /and Units Per Semester		16	32

B– Practical Aspect:			
Order	Topics List	Week Due	Contact Hours
1	Nursing care of patient with nutritional disorders	1-2	6
2	Nursing care of patient with shock states: Distributive, hypovolemic, Cardiogenic & Obstructive	3-4	6
3	Nursing care of neurological disorders	5-8	12
4	Nursing care of patient with hematology, oncology and immune diseases.	9-10	6
5	Nursing care of trauma-related injuries	11-12	6
6	Nursing care of burn patients	13-14	6
7	Nursing care of patients with end of Life	15	3
8	Final clinical exam	16	3
Number of Weeks /and Units Per Semester		16	48

VI. Teaching strategies of the course:
<ol style="list-style-type: none"> 1. Lecture Discussion 2. Presentation 3. Role playing 4. Case study reviews 5. Assignments 6. Activities

VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	• Complications of ventilator	b1,b4	5-10	10

VIII. Schedule of Assessment Tasks for Students During the Semester

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Cases Study and Presentation	15th week	10	10%	a1,a3,a4,a5,b1, b4,d5,c2,c4.c5
2	Weekly Clinical Logs & Assignments	5th - 12th week	10	10%	a1,a3,a4,a5,b1, b4,d5,c2,c4.c5
3	Clinical Performance/ Professional Behavior	5th - 12th week	15	15%	c2,c4.c5
4	Mid-term exam	7th or 8th week	15	15%	a1,a3,a4,a5,b1, b4,d5
5	Final exam (theory and clinical)	16th-17th week	50	50 %	a1,a3,a4,a5,b1, b4,d5,c2,c4.c5
Total Theory Weight			100	100%	

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