



21 September University of Medical and Applied Sciences
Deanship of Higher Studies
Faculty of High Nursing
Department: Critical Care Nursing

Master in Critical Care Nursing

(MCCN)

Program Specifications

Prepared by:

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21
2023

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2023



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1. General Information:

1.	Program Name	Master of Critical Care Nursing
2.	Program Code & Number:	(MCCN)
3.	Program Type	Courses and Thesis
4.	Total Credit Hours	40 Hours
5.	Program Period	2 years
6.	Awarding Institution	21 September University of Medical and Applied Sciences Faculty of High Nursing
7.	Awarded Degree	Master's degree
8.	Study System:	Regular, minimum attendance 75%
9.	Teaching language	English
10.	Departments participating in the program:	Medicine, Pharmacy, Nursing, Medical administration.
11.	Location of teaching:	21 September University of Medical and Applied Sciences - Faculty of High Nursing - Sam'a Yemen
12.	Date of Preparation:	June 2023
13.	Prepared by:	1. Professor Dr. Abdulhameed Ali Al-Thifani 2. Professor Dr. Abdulsalam Mohammed Dallak 3. Professor Dr. Nabil Ahmed Al-Rabeei Review by Assoc prof. Muner AlWesabi
14.	Council Approval Date	

2. Introduction:

The MCCN program at 21 September University has been established in 2022. The program intended for registered nurses wishing to undertake a specialist qualification in CCN. The MCCN program aims to prepare future leaders in CCN who provide safe, comprehensive evidence-based care to the critically ill patients who are competent in adding to the body of knowledge of critical care nursing practice through research and scholarly activities. These graduates will be able to provide high standard, ethical, holistic and culture-sensitive nursing care in the area of CCN, as well as in relevant education and research.

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3. University Vision, Mission, Values, and Objectives:

3.1. University vision:

A contemporary university with national responsibility and a faith identity.

3.2. University mission:

Leading the transformation in the management and delivery of health care with all partners by setting a standard of excellence in education and medical and applied research in a way that meets the needs of Yemeni society, its privacy and regional influence.

3.3 University Core values:

1. Leadership and Influence
2. Distinction and creativity
3. work as one team.

3.4. University Objectives:

- 1- Ensuring the application of quality standards and having the distinction standards in medical and applied sciences, scientific research and community service.
2. Adopting student-centered learning, the partnership with them for life, consolidating the principles of national responsibility and faith identity, looking after them and developing their capabilities after graduation and during work.
3. Attracting and Employing scientists, cadres and talents to gain minds and put an end for the "brain drain" in a way that promotes and ensures the availability of thinkers, businessmen and good citizens.
4. Developing the distinguished academic infrastructure continuously and establishing modern research and service centers with high efficiency that can give a real effect locally and internationally.
5. Enhancing the university status as a preferred partner for local, regional and international partnership through implementing creative styles of education, exchanging researches and knowledge, and providing real and effective outcomes for developing professional practices to benefit from them locally and regionally.

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4. Faculty Vision, Mission, Values, and Objectives:

4.1. Vision:

Contemporary leadership in nursing education locally and regionally.

4.2. Mission:

Preparing highly qualified nursing cadres that meet the needs of the labor market through advanced educational and research programs that achieve sustainable development and enhance the values of leadership, teamwork and community partnership.

4.3. Values:

4. Leadership and Influence
5. Excellence and creativity
6. work as one team

4.4. Faculty Objectives:

1. Preparing a qualified nursing cadre to meet the needs of public and private hospitals in accordance with comprehensive quality standards
2. Follow the best nursing practices using scientific methods in solving occupational and health problems.
3. Providing continuing education opportunities to keep abreast of developments and contribute to the advancement of the nursing profession.
4. To work on developing the concept of belonging to the homeland by encouraging students and their participation in relevant seminars and conferences
5. Encouraging scientific research that contributes to solving society's problems.
6. Stimulating and enhancing students' creative thinking

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5. Department Mission, and Objectives :

5.1. Mission of the Department:

Preparing highly qualified nursing cadres that meet the needs of the labor market through educational and research programs and contributing in developing and serving the community.

5.2. Objectives of the Department:

1. Offer academic programs high level in postgraduates studies matching the quality and academic accreditation standards.
2. Encouraging scientific research that contributes to solving community problems.
3. Equip students with advanced knowledge and skills to underpin a detailed understanding of a range of critical care nursing.
4. Facilitate the development of critical appraisal skills in the application of contemporary knowledge in the care of critically ill patients
5. Enable the development of students' ability to deal with a range of complex clinical situations in relation to their practice and to enhance clinical decision making.
6. Prepares critical care nurse specialists who meet the requirements of evidence-based critical care nursing practice.
7. Develop future specialist nurses who are prepared to offer leadership and excellence.

6.1. Program Mission:

Preparing highly qualified critical care nursing specialized that meet the needs of the labor market through educational and research programs and contributing in developing and serving the community.

6.2. Program Objectives:

- On Completion of the MCCN program, the graduate will be able to:**
1. Demonstrates a solid knowledge base related to diseases, disorders and related issues- pathophysiology, signs & symptoms, management approaches and potential complications
 2. Utilize/apply the concepts, theories and principles of nursing science and demonstrate advance competence in practice of critical care nursing
 3. Demonstrate skills in conducting nursing research, interpreting and utilizing the findings from health-related research.
 4. Demonstrate the ability to plan and effect change in nursing practice and in the health care delivery system.
 5. Establish collaborative relationship with members of other disciplines
 6. Demonstrate interest in continued learning for personal and professional advancement.
 7. Maintaining an effective communication with patients and their families as well as the members of

6. Program Mission and Objectives:

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8. Practice within ethical, legal and interpersonal dimensions within the trauma/critical care setting.
 the health team

7. Program Standards & Benchmarks:

Academic Standards:
 1. Council for Accreditation of quality Assurance Standards for first level. Council for Accreditation and quality Assurance. Yemen Republic

Program Benchmarks:

1. MSc in critical care nursing. Faculty of postgraduate studies. Jordan University. Jordan.
2. Master in critical care nursing. Faculty of Medicine and Health Sciences. Samara University. Yemen.
3. MSc in Critical Care Nursing. Fakeeh college for medical sciences. King Saudi Arabia.
4. MSc in critical care nursing. Faculty of graduate studies. School of Nursing. An-Najah National University. Palestinian.
5. MSc in critical care nursing. Faculty of nursing. Al-Mansura University. Egypt.
6. MSc in critical care Nursing. Tehran University of Medical Sciences. School of Nursing and Midwifery. Iran.
7. MSc in critical care nursing. King Abdelaziz University. Faculty of Nursing. King Saudi Arabia.

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8. Graduate Attributes:

Upon successful completion of an postgraduate Master degree in MCCN program, graduates will be able to:

- 1- Nursing practice: The MSc. Critical care nursing graduate will integrate the principles the knowledge and skills with nursing practice.
- 2- Communication skills: The MSc. Critical care nursing graduate will communicate effectively with patients, caregivers, and other health professionals through the use of verbal & non-verbal skills, written abilities, active listening, and information technologies while adapting to complex and diverse situations.
- 3- Membership of health team: The Critical care nursing graduate will act as member of a multidisciplinary health team.
- 4- Professionalism and Ethics: The MSc. Critical care nursing graduate will demonstrate knowledge, understanding, responsibility and accountability of the legal obligations for ethical nursing practice.
- 5- Leadership skills: The MSc. Critical care nursing graduate will demonstrate appropriate leadership skills in the delivery of care in clinical setting.
- 6- Information technology: The MSc. Critical care nursing graduate will utilize information from variety of reliable sources for planning and improving health promotion and health education activities.
- 7- Lifelong learning: The MSc. Critical care nursing graduate should be committed to continuous improvement in skills and knowledge while harnessing modern tools and technology.
- 8- Research skills: The MSc. Critical care nursing graduate should be able to define research problem, formulate hypothesis, manage resources, analyze and interpret data, explore cause – effect relationships, plan and execute a report, present results of the experiment and demonstrate a sense of scientific enquiry, reflective thinking, self-directed learning and creativity.
- 9- Critical thinking and Decision making: The MSc. Critical care nursing graduate will utilize critical thinking and decision making in improving the quality of nursing care by using the existing resources.

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9. Program Intended Learning Outcomes (PILOs):

A. Knowledge and Understanding:

Upon successful completion of the postgraduate master's degree in MCCN Program, the graduates will be able to:

A1. Discuss appropriate documentation of nursing care delivery to the critically ill patients and the family.

A2. Acquire knowledge on the concept and principles of health sciences and other basic sciences related to critical care nursing

A3. Identify areas of a patient's history, physical examination a diagnostic study pertinent to care of critical ill patients.

A4. Illustrate Causes, Pathophysiology, Clinical types, Clinical features, Diagnostic Prognosis, Medical and Surgical Management & Nursing management of patients with critical and emergency problems.

A5. Discuss emergency equipment used in various situations.

A6. Identify problems for nursing research in trauma/critical care nursing and measurement of data analysis techniques to research problems.

B. Cognitive/ Intellectual Skills:

Upon successful completion of the postgraduate master's degree in MCCN Program, the graduates will be able to:

B1. Integrate knowledge from nursing and related disciplines into the nursing care plan of persons with life-threatening diseases.

B2. Evaluate the effect a specific body organ dysfunction on the patient's living pattern.

B3. Assesses patient and obtains medical, social and family history and relative information/data accurately to formulate appropriate nursing diagnoses

B4. Differentiate between normal and abnormal developmental findings for specific system disorder and provide developmentally appropriate nursing care.

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C. Practical and Professional Skills:

Upon successful completion of the postgraduate master's degree in MCCN Program, the graduates will be able to:

C1. Manage patients receiving medications and complementary/alternative medicine and/or non-pharmacologic interventions

C2. Use most common critical care nursing modalities, equipment and monitoring technique used in various situations in the critical care units.

C3. Apply the assessment and treatment priorities in critical care units and monitor patients and follow protocols for pre- and post-operative care.

C4. Apply nursing care plan to critical ill patients in a critical care units.

C5. Write and utilize scientific research methods, and apply appropriate measurement and data analysis techniques to evidence underpinning the study of clinical nursing.

D. General and Transferable Skills:

Upon successful completion of the postgraduate master's degree in MCCN Program, the graduates will be able to:

D1. Assume managerial nurse role in different health care units.

D2. Act as a member of a team work.

D3. Communicate effectively with patients and their family and with colleagues from nursing, related disciplines to develop a comprehensive plan of care for patients with critical diseases.

D4. Use of computer and statistical software program to entry, analysis, presentation and interpretation of data.

D5. Explore practice, ethical, legal and interpersonal dimensions within the critical care units.

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Teaching strategies	Description
<p>1. Lecture: It is the most frequently employed teaching method to convey knowledge and explain theories to students in large groups or in sessions, which consist of more than one group gathered in one classroom.</p>	<p>Used in all courses (MNSG and MCCN)</p>
<p>2. Lecture - Discussion: a short lecture/ address followed by Formal or informal discourse on topics usually primed by leading and/or open-ended questions.</p>	<p>Used in all courses (MNSG and MN)</p>
<p>3. Seminars: these are mainly used with small groups of students in which they find better chances for discussing and participating in the teaching process.</p>	<p>Used in all courses (MNSG and MCCN)</p>
<p>4. IT laboratory sessions: average number of students in session (20-30) students</p>	<p>Used in course (MNSG01)</p>
<p>5. Student Presentation: Research shows peer teaching is an active learning strategy that results in significant gains in learning. Students practice professional roles and improve communication skills.</p>	<p>Used in all courses (MNSG and MCCN)</p>
<p>6. Role Plays: Students assume one of the characters in a simulated situation in order to experience different points of view or positions.</p>	<p>Used only in all specialties courses (MCCN)</p>
<p>7. Brainstorming: Used most often with groups, brainstorming is a technique for refining the definition of a problem, generating multiple solutions to a problem or multiple designs for developing something new, and to identify possible threats to the solutions and designs. It promotes creative and critical thinking.</p>	<p>Used in all courses (MNSG and MCCN)</p>
<p>8. Case study: A detailed analysis is made of some specific, usually compelling event or series of related events so that learners will better understand its nature and what might be done about it.</p>	<p>Used only in all specialties courses (MCCN)</p>
<p>9. Clinical practices: Observations made or work carried on in a natural setting.</p>	<p>Used only in all specialties courses (MCCN)</p>

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Assessment Strategy	Description
Quizzes	Continuous assessment of the students, keeps students informed with what had studied
Assignments	Individual or group duty
Mid-term exam	Long or short essays performed in the 7 th week
Final term exam	Conducted at the end of each course
Seminars (group, individualized)	Individualized or grouped discussion about specific topic
Practical Exam & Written reports about field training	Practical Exam & Written documentation about field training
Case presentation	Report written and presented by the student about specific case
Research	Thesis

10. Alignment of Program Intended Learning Outcomes (PILOs) to Teaching Strategies and Assessment Methods:

PILOs	Teaching Strategy	Assessment Methods
Knowledge and Understanding A1, A2, A3, A4, A5, A6	<ul style="list-style-type: none"> Interactive lectures Seminars and student presentations 	<ul style="list-style-type: none"> Quiz Mid-term exam Final term exam
Intellectual Skills B1, B2, B3, B4	<ul style="list-style-type: none"> Interactive lecture Brain storming Role Plays Small group discussions Seminars and student presentations 	<ul style="list-style-type: none"> Assignments Mid-term exam Final term exam Written reports about field training Case presentation Research
Professional & practical skills	<ul style="list-style-type: none"> Interactive lectures Field training (Clinical practices) Laboratory sessions 	<ul style="list-style-type: none"> Assignments Mid-term exam Final term exam

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PILOs	Teaching Strategy	Assessment Methods
C1, C2, C3, C4, C5	<ul style="list-style-type: none"> Small group for discussing. Case Study Role Plays 	<ul style="list-style-type: none"> Practical Exam & Written reports about field training Case presentation
General & Transferable Skills D1, D2, D3, D4, D5	<ul style="list-style-type: none"> Interactive lecture Small group discussions Seminars and student presentations Role Plays 	<ul style="list-style-type: none"> Case presentation Research Practical Exam

10.1. Program Major

Compulsory Courses

No.	Level-Sem.	Course Code	Course Name	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1	1/1	MNSG01	SPSS statistics	3	2		2	-----
2	1/2	MNSG02	Management and leadership in nursing	2	2		--	-----
3	1/2	MNSG03	Research methodology	2	2		--	MNSG01
4	1/1	MNSG04	Advanced Pathophysiology	2	2		--	-----
5	1/1	MNSG05	Professional ethics	2	2		---	-----
6	1/2	MCCN01	Medical Technology	3	2		2	MCCN02
7	1/1	MCCN02	Critical care nursing I	4	2		6	MNSG04, MCCN01,0, 6,07
8	1/2	MCCN03	Critical care nursing II	4	2		6	MNSG04, MCCN01,0, 2,06,07
9	1/2	MCCN04	Critical care nursing III	4	2		6	MNSG04, MCCN01,0, 2,06,07
10	1/2	MCCN05	Emergency nursing	4	2		6	MNSG04, MCCN01,0, 6,07
11	1/1	MCCN06	Clinical pharmacology	2	2		--	-----

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* L= lecture ** T=tutorial/seminar, *** P= lab/workshop/training/clinical
Every 1 Clinical CH= 3 actual hours.

No.	Level-Sem.	Course Code	Course Name	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
	1/1	MCCN07	Advanced Health assessment	2	1		6	-----
				Total	34	23	0	34

11. Study Plan:

First Year

No.	Level-Sem.	Course Code	Course Name	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1	1/1	MNSG01	SPSS statistics	3	2		2	-----
2	1/1	MNSG04	Advanced Pathophysiology	2	2		-----	
3	1/1	MNSG05	Professional ethics	2	2		-----	
4	1/1	MCCN02	Critical care nursing I	4	2		6	MNSG04, MCCN01,06,07
5	1/1	MCCN06	Clinical pharmacology	2	2		-----	
6	1/1	MCCN07	Advanced Health assessment	2	1		6	-----
				Total	15	11	0	14

Every 1 Clinical CH= 3 actual hours

Semester II

No.	Level-Sem.	Course Code	Course Name	Cr. Hrs.	L	T	P	Prerequisites, Co-requisites
1	1/2	MNSG02	Management and leadership in nursing	2	2		-----	-----
2	1/2	MNSG03	Research methodology	2	2		-----	MNSG01
3	1/2	MCCN01	Medical Technology	3	2		2	MCCN02
4	1/2	MCCN03	Critical care nursing II	4	2		6	MNSG04, MCCN01,02,06,07
5	1/2	MCCN04	Critical care nursing III	4	2		6	MNSG04, MCCN01,02,06

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بسم الله الرحمن الرحيم
أولاً: الحمد لله رب العالمين
ثانياً: أقرت اللجنة المختصة
بمناقشة خطة الدراسة
لطلاب المرحلة الأولى
بالتخصص التمريضي
في كلية التمريض الطبي
جامعة صنعاء للعام الجامعي
2017م الموافق 21 سبتمبر 2017م



Every 1 Clinical CH = 3 actual hours.

		Total						
6	1/2	MCCN05	Emergency nursing	4	2	12	19	20
								MNSG04, MCCN01,06,07
								07

Second Year

NO	Level	Corse Code	Course Name	Cr. Hrs.	L	T	P	Total		
	Second Year	MCCN08	Master Thesis	6			0	0	0	18
										All Course
										Co-requisites, Prerequisites

12. Admission/Selection/Transfer Requirements:

- Admissions to the program shall be made as per the admission rules made by Ministry of higher education and scientific research-Yemen Republic and 21 September University.
1. Specialties allowed to enroll in this plan are holders of the Bachelor Degree in Nursing of any university.
 2. Have a minimum of one years of experience after obtaining B.Sc. Nursing (basic) in hospital or nursing educational institutions or community health setting.
 3. Satisfactory outcome of an interview evaluating background and suitability for a clinical health Specialist.

13. Graduation Requirements:

1. The number of hours required to complete the program: 40 credits hours

14. Grading System:

From 90% to 100% from total marks	Excellent
From 80% to 89%	Very Good
From 75% to 79%	Good
From 65% to 74%	Pass
Less than 65%	Poor/Fail

Total pass degree for study year is 75% in case the student less than 75% he/she awarded diploma degree

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15. Program Assessment:

Type of the Sample who Assess the program		Instruments used	Sample
1	Workshop	Questionnaire 1	100%
2	Graduate students	Questionnaire 2	20%
3	Stakeholders	Questionnaire 3	20%
4	Academic staff	Workshop	100%
5	External Evaluator	Feedback & Comments	100%

16. Program Policies:

Based on University Regulations

1.	(Class Attendance) : A student should attend not less than 75 % of total hours of the subject; otherwise he/she will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic. If the absent is more than 25% of a course total contact hours, student will be required to retake the entire course again.
2.	(Tardy) : For late in attending the class, the student will be initially notified. If he repeated lateness in attending class he/she will be considered as absent.
3.	(Exam Attendance/Punctuality) : A student should attend the exam on time. He/she is permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.
4.	(Assignments & Projects) : Assignments and projects are given as per course specification; the student has to submit all the assignments for checking on time, mostly one week after given the assignment.
5.	(Cheating) : For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
6.	(Plagiarism) : Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proved a plagiarism of a student, he/she will be disengaged from the

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<p>Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university or according to the university roles.</p>	<p>7. (Other policies) :</p> <ul style="list-style-type: none"> - Mobile phones are not allowed to use during a class lecture. It must be closed; otherwise the student will be asked to leave the lecture room. - Mobile phones are not allowed in class during the examination. - Lecture notes and assignments might be given directly to students using soft or hard copy.
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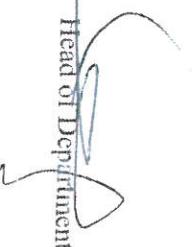
21 September University of Medical and Applied Sciences

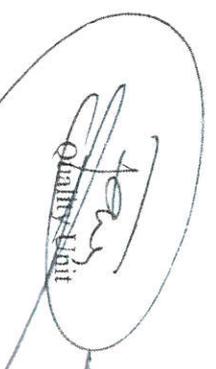
Faculty of High Nursing

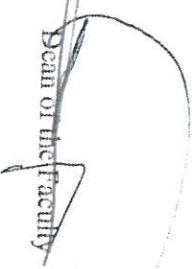
Postgraduate Studies in Nursing

Master Degree in Critical Care Nursing (MCCN)

Annexes of Program Specification


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Annex- 1. Survey of Similar Accredited Programs at National and International Universities (Benchmarks)

Information	Reference Programs				21 September Program
	Program 1	Program 2	Program 3	Program 4	
Program title	MSc.CCN	MCCN	MSc.CCN	MSc.CCN	MCCN
Faculty/School	Postgraduate studies	Nursing	Fakeeh	Postgraduate studies	Nursing
University	Jordan	Sana'a	Fakeeh college for medical sciences	An-Najah National	21 September
Country	Jordan	Yemen	KSA	Palestinian	Yemen
Study system	Semester	Semester	Semester	Semester	Semester
Mode of delivery	Regular	Regular	Regular	Regular	Regular
No. of semesters	4	4	4	4	4

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Total CH of the program	27	32	42	32	34
No. of CH for obligatory courses	18	32	42	32	34
No. of CH for elective courses only	9	---	---	---	---
No. of obligatory courses	6	12	12	13	12
No. of elective courses	9	---	---	---	---
Complementary requirement courses	---	---	---	---	---
No. of CH for thesis only	9	6	---	6	6
No. of CH for courses and thesis	36	38	42	38	40

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Duration of thesis	12 M	12 M	Non-thesis	12 M	12 M
Minimum duration of the program	24 M	24 M	24 M	24 M	2 years
Maximum duration of the program	36 M	36 M	36 M	36 M	3 years

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Annex - 2. Survey of Similar PILOs at National and International Universities (Benchmarks)

<p>University: 21 September Faculty: Nursing Program: MS. CCN</p>	<p>University: Sana'a Faculty: Medicine and health sciences Program: MCCN</p>	<p>University: Najah National Faculty: Postgraduate studies Program: MSc. CCN</p>	<p>University: Jordan Faculty: Postgraduate studies Program: MSc. CCN</p>	<p>University: Fakeeh college for medical sciences Faculty: Fakeeh college for medical sciences Program: MSc. CCN</p>
<p>Knowledge & Understanding A1. Discuss appropriate documentation of nursing care delivery to the critically ill patients and the family. A2. Acquire knowledge on the concept and principles of health sciences and other</p>	<p>Integrate knowledge from nursing and related disciplines into the nursing care plan of persons with life-threatening illnesses.</p>	<p>Identifying and resolving health issues at different levels of society</p>	<p>Discusses the principles of nursing administration.</p>	<p>Describes the historical</p>
<p>Identify appropriate documentation of nursing care delivery to the critically ill</p>	<p>Reviewing and identifying</p>	<p>the</p>		

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<p>basic sciences related to critical care nursing.</p> <p>A3. Identify areas of a patient's history, physical examination a diagnostic study pertinent to care of critical ill patients.</p> <p>A4. Illustrate Causes, Pathophysiology, Clinical types, Clinical features, Diagnostic Prognosis, Medical and Surgical Management & Nursing management of patients with critical and emergency problems.</p> <p>A5. Discuss emergency</p>	<p>client and the family.</p> <p>Identify collaborative strategies with colleagues nursing, disciplines and consumers to develop a comprehensive plan of care for clients experiencing acute trauma or a critical illness.</p> <p>Explore practice, ethical, legal and interpersonal dimensions within the trauma/critical care setting.</p>	<p>potential problems in adult health, and providing evidence-based</p> <p>Coping strategies and referring them to the officials in charge</p>	<p>development, concepts, principles and trends in Medical Surgical Nursing.</p> <p>Demonstrates skill in physical assessment of patients in the hospital and community settings.</p> <p>Demonstrates skill in providing comprehensive care to the patients admitted with physiological alterations in Gastrointestinal, Neurological, Cardiac, Pulmonary, Nephrology, Blood</p>	
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<p>equipment used in various situations .</p> <p>A6. Identify problems for nursing research in trauma/critical care nursing and measurement of data analysis techniques to research problems.</p>	<p>Identify problems for nursing research in trauma/critical care nursing.</p> <p>Psychosocial assessment findings .</p> <p>Recognize signs and symptoms of emergencies, initiate interventions and seek assistance as needed.</p> <p>Identify emergency equipment used in various situations</p>	<p>and Endocrine, disorders</p> <p>Demonstrates skill in providing comprehensive care to the patients admitted with physiological alterations in Skin, ENT, Reproductive Disorders, Geriatric Problems, Communicable Diseases and Emergency Conditions.</p> <p>Demonstrates skill in conducting</p>	
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		<p>Explain the roles and responsibilities of nurses working in each clinical setting; e.g., triage nurse, circulating nurse, dialysis nurse, charge nurse etc.</p>	<p>Examining the role of the professional nurse as an advocate for the acute trauma/critically ill client and the client-family unit.</p>	<p>Recognize normal and abnormal Physical,</p>	<p>independent research projects</p>
<p>Intellectual Skills</p>	<p>B1. Integrate knowledge from nursing and related disciplines into the nursing care plan of persons with life-threatening diseases .</p> <p>B2. Evaluate the effect a specific body organ dysfunction on the patient's living pattern.</p>	<p>Examine the role of the professional nurse as an advocate for the acute trauma/critically ill client and the client-family unit.</p>	<p>Creating physically and mentally wholesome work environment</p>	<p>Develop competency to function as a specialized critical care nurse in providing holistic care to critically ill patients</p>	<p>Develop future Specialist Nurses who are prepared to offer leadership and excellence.</p>

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<p>B3. Assesses patient and obtains medical, social and family history and relative information/data accurately to formulate appropriate nursing diagnoses</p> <p>B4. Differentiate between normal and abnormal developmental findings for specific system disorder and provide developmentally appropriate nursing care.</p>	<p>Demonstrate how to apply and properly use emergency equipment</p> <p>Assess patient's pain considering cognitive status and age</p> <p>Demonstrates a solid knowledge base related to diseases, disorders and related issues pathophysiology, signs & symptoms, management approaches, and potential complications</p>	<p>Assessing the quality of delivering health care services with respect to the available criteria and evidence to possibly reformulate or modify the services</p> <p>Formulating and employing prevention strategies for health issues in the relevant areas</p> <p>Performing the role of clinical governance</p>	
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<p>Profession</p>	<p>CI. Manage patients receiving medications and complementary/alternative medicine and/or non-</p>	<p>Assesses patient and obtains medical, social and family history and relative information/data accurately to formulate appropriate nursing diagnoses</p> <p>Assesses actual and potential problems, short and long-term goals of care, interventions to be instituted and evaluation criteria</p>	<p>Applying the assessment and treatment priorities in each clinical setting</p> <p>Producing and conducting research project within the</p>	<p>Apply the concepts, theories and principles of nursing</p>	<p>Prepares Critical Care nurse specialists and nurse educators who meet the</p>
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<p>pharmacologic interventions</p> <p>C2. Use most common critical care nursing modalities, equipment and monitoring technique used in various situations in the critical care units .</p> <p>C3. Apply the assessment and treatment priorities in critical care units and monitor patients and follow protocols for pre- and post-operative care.</p> <p>C4. Apply nursing care plan to critical ill patients in a</p>	<p>Identify and monitor normal and abnormal diagnostic test results</p> <p>Modifies plan of care based on patient responses to plan instituted</p> <p>Maintains infection control throughout clinical experiences</p> <p>Educates patient and/or family on illness related topics</p> <p>Takes responsibility for assigned nursing</p>	<p>Field of adult health</p> <p>Evaluating adult health services at micro and macro levels</p> <p>Training patients, families, and students</p> <p>the their and</p> <p>Planning, monitoring, observing, and evaluating the programmes related to adult health</p>	<p>science in practice.</p> <p>Applies the principles of nursing administration in the hospital.</p>	<p>requirements of evidence-based Critical Care Nursing practice.</p> <p>Provide high quality health education services to the community through a range of health education strategies.</p> <p>Apply effective tools and methodologies to obtain current and advanced knowledge in nursing profession by adopting advanced research</p>
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<p>critical care units.</p> <p>C5. Write and utilize scientific research methods, and apply appropriate measurement and data analysis techniques to evidence underpinning the study of clinical nursing.</p>	<p>care</p> <p>Manage patients receiving :</p> <ol style="list-style-type: none"> 1. Medications (e.g., safe administration, monitoring, polypharmacy) 2. Complementary/ alternative medicine and/or non-pharmacologic interventions 3. Monitor patients and follow protocols for pre- and post-operative care 4. Assess normal and abnormal developmental findings and provide developmentally appropriate care. 	<p>Quality control procedures in adult health service centers</p> <p>Making use of the available equipment and facilities in adult health service centers</p> <p>Making use of research evidence in improving adult health</p>	<p>Conduct nursing research, interpret, communicate and utilize the research</p>	<p>methodology and evidence-based holistic practice.</p> <p>Prepare students to be able to add to the body of Critical Care knowledge to ensure publications for the dissemination of research findings.</p>
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<p>Transferable Skills</p> <p>D1. Assume managerial nurse role in different health care units.</p> <p>D2. Act as a member of a team work</p> <p>D3. Communicate effective with patients and their family and with colleagues from nursing, related disciplines to develop a comprehensive plan of care for patients with critical diseases.</p> <p>D4. Use of computer and statistical software program to entry, analysis, presentation and interpretation of data.</p>		<p>Planning, organizing, assessing the leadership, and directing the issues associated with adult health system Working at professional sections related to adult health services</p> <p>Professionalism Lifelong self-improvement</p>	<p>findings.</p> <p>Develop collaborative relationship with members of multidisciplinary team.</p> <p>Establishes interpersonal relationship with other health team members for management of hospital nursing services.</p> <p>Appraise the need for continued learning for personal professional and advancement.</p>	<p>Contribute as a learned member of the multidisciplinary team in the delivery of quality healthcare for individuals and families within the context of medical and surgical nursing;</p>
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<p>D5. Explore practice, ethical, legal and interpersonal dimensions within the critical care units. D5. Assume managerial nurse role in different health care setting.</p>		<p>Receiving and offering counseling Establishing ethical communications with clients, colleagues and students</p>	<p>Describes legal and ethical issues in nursing management. Practice leadership qualities and function effectively as nurse educator and manager.</p>	
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Annex-3. Comparison of Program Courses and Similar Programs Courses

SN	University: 21 September	University: An-Najah National	University: Sana'a	University: Jordan	University: Fakeeh college for medical sciences
1	SPSS statistics Faculty: Nursing Program: MCCN	Research Methodology and Statistical Methods in Health Research Faculty: Postgraduate studies Program: M.Sc. CCN	SPSS for windows Faculty: Medicine and health sciences Program: MCCN	Statistical Methods for Health Care Research Faculty: Postgraduate studies Program: M.Sc. CCN	Epidemiology and Biostatistics Faculty: Fakeeh college for medical sciences Program: M.Sc. CCN
2	Management and leadership in nursing		Management and Leadership in Nursing	Management and leadership in nursing	Nursing Education & Leadership
3	Research methodology	Research Methodology and Statistical Methods in Health Research	Research methodology	Research methodology in nursing	Advanced Research Methodology
4	Clinical	Advanced Pharmacology for	Clinical	Clinical pharmacology	Pharmacology

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	pharmacology	Critical Care Nurse	pharmacology	in nursing	
5	Advanced Pathophysiology		Pathophysiology	Changes in health physiology	Advanced Pathophysiology
5	Medical Technology	Medical Technology ECG and Cardiovascular Dysrhythmia - Interpretation and Management			
6	Critical care nursing I	Introduction to Critical Care Nursing	Critical Care Nursing I	Critical care nursing I	Critical Care Nursing I
7	Critical care nursing II	Critical Care Nursing I	Critical care nursing II	Critical care nursing II	Critical Care Nursing II
8	Critical care nursing III	Critical care nursing II	Advanced critical care nursing	Critical nursing	
9	Emergency nursing	Emergency and Disaster Nursing	Emergency nursing	Emergency and Disaster Nursing	
10	Advanced Health	Advanced Health		Health assessment skills	Advanced Health

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assessment	Assessment	Assessment	Assessment
11 Professional ethics			
12 Thesis Master	Master Thesis	Master Thesis	Specialized Nursing: Ethics and Roles Master Thesis
13	Chemistry / Physics Related to Critical Care Nurse	Trends and Issues in Nursing	Teaching and Training in Nursing Non- Thesis
14		Critical care medicine	Infection Control
15		Nursing Theories: Development and Application	Nursing theories
16		Microbiology	
		Palliative Care: Pain and Suffering	
		Therapeutic relationships in psychiatric nursing	

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Annex – 4. Survey of Program ILO's with Program Objectives

Program ILOs	Program Objectives							
	PObj1	PObj2	PObj3	PObj4	PObj5	PObj6	PObj7	PObj8
A1	✓		✓					
A2	✓	✓	✓					✓
A3		✓	✓	✓			✓	
A4		✓		✓			✓	✓
A5	✓	✓	✓					
A6	✓	✓					✓	✓
B1	✓	✓	✓	✓			✓	✓
B2		✓		✓			✓	
B3				✓				✓
B4	✓			✓			✓	✓
C1	✓	✓	✓	✓				
C2		✓		✓				✓
C3		✓	✓					

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Program ILOs	Program Objectives							
	PObj1	PObj2	PObj3	PObj4	PObj5	PObj6	PObj7	PObj8
C4	√			√				√
C5								√
D1		√	√					
D2				√				
D3		√	√					√
D4		√						
D5								

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Program Intended Learning Outcomes (PILOs)

#	Course Code	Course Title	Program Intended Learning Outcomes (PILOs)																				
			A. Knowledge & Understanding						B. Intellectual Skills				C. Practical Skills					D. Transferable Skills					
			A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	C1	C2	C3	C4	C5	D1	D2	D3	D4	D5	
9	MCCN04	Critical care nursing III	X		X	X				X					X		X		X				
10	MCCN05	Emergency nursing					X														X	X	
11	MCCN06	Clinical pharmacology		X						X								X	X			X	
12	MCCN07	Advanced Health assessment																					
13	MCCN08	Master Thesis		X								X										X	

I =Introduced; P=Practiced; M/A=Mastered/Advanced

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Annex - 6. Attributes of the MSc. Critical care nursing Graduates

1	Nursing practice	The MSc. Critical care nursing graduate will integrate the principles the knowledge and skills with nursing practice.
2	Communication skills	The MSc. Critical care nursing graduate will communicate effectively with patients, caregivers, and other health professionals through the use of verbal & non-verbal skills, written abilities, active listening, and information technologies while adapting to complex and diverse situations.
3	Membership of health team	The Critical care nursing graduate will act as member of a multidisciplinary health team
4	Professionalism and Ethics	The MSc. Critical care nursing graduate will demonstrate knowledge, understanding, responsibility and accountability of the legal obligations for ethical nursing practice.
5	Leadership skills	The MSc. Critical care nursing graduate will demonstrate appropriate leadership skills in the delivery of care in clinical setting.
6	Information technology	The MSc. Critical care nursing graduate will utilize information from variety of reliable sources for planning and improving health promotion and health education activities.
7	Lifelong learning	The MSc. Critical care nursing graduate should be committed to continuous improvement in skills and knowledge while harnessing modern tools and technology.
8	Research Skills	The MSc. Critical care nursing graduate should be able to define research problem, formulate hypothesis, manage resources, analyze and interpret data, explore cause – effect relationships, plan and execute a report, present results of the experiment and demonstrate a sense of scientific enquiry, reflective thinking, self-directed learning and creativity
9	Critical thinking	The MSc. Critical care nursing graduate will utilize critical thinking and decision making in improving the quality of nursing care by using the existing resources.

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