

Republic of Yemen Ministry of Higher
Education & Scientific Research
Council for Accreditation & Quality
Assurance
21 September University for Medical
and Applied Sciences



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
مجلس الاعتماد وضمان جودة التعليم العالي
جامعة ٢١ سبتمبر للعلوم الطبية والتطبيقية

Template for Master Program Specification

University: 21 September for Medical and Applied Sciences **Faculty:** Nursing

Postgraduate Studies in Nursing

Master in Critical Care Nursing (MCCN)

ماجستير تمريض رعاية حرجة

2022

Academic Program Specification

1. 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.

2. Basic Information of the program

| | |
|--|---|
| Program Title | Master of Critical Care Nursing (MCCN) |
| Awarding Institution | 21 September University-Faculty of Nursing |
| Division responsible for the program | Division of nursing |
| Program type | Single |
| Language of study | English |
| Year of study in the program | 2022-2023 |
| Mode of delivery | Regular, minimum attendance 75% |
| Teaching institution | Faculty of Nursing |
| System of study | Semester system |
| Duration of study | MCCN is offered as minimum two-year. One year are study courses and one year is master thesis. The course is organized into two teaching Semesters. Each Semester consists of 16 weeks of teaching. For the MCCN students are strongly encouraged to take all 40 credits hours. |
| Final award/s available | Master of critical care nursing |
| Award title | Master of critical care nursing |
| Qualification for admission to the program | Bachelor degree nursing |
| Grade for admission to the program | Good |
| Other requirements | As per the admission rules made by Ministry of higher education and scientific research-Yemen. Satisfactory outcome of an interview evaluating background and suitability for a nursing specialist. |
| Coordinator | Professor Dr. Abdulhameed Ali Al-Thifani Professor Dr. Abdulsalam Mohammed Dallak Professor Dr. Nabil Ahmed Al-Rabeei |
| Data of program specification | New program 2022 |

3. University Vision, Mission and Aims

University Vision

University Mission

Aims of the University

- 1-
- 2-
- 3-
- 4-
- 5-
- 6-

4. Postgraduate Vision, Mission and Objectives

Postgraduate Vision

Contemporary postgraduate studies with the quality of its program and outputs locally and regionally

Postgraduate Mission

The vice-rectorship for postgraduate studies and scientific research seeks to prepare and implement qualitative applied scientific programs with the aim of preparing distinguished researchers who contribute to address the problems of society.

Objectives of the Postgraduate strategies

1. Established qualitative postgraduate programs that attract graduate of local and regional universities.
2. Continuous development and update of postgraduate programs in accordance with quality standards.
3. Prepare distinguish researchers through continuing education program and developing research skills.
4. Partnership with similar scientific institution in scientific research.
5. Developing the infrastructure human and finance for postgraduate program and scientific research in accordance with the standards of academic accreditation.
6. Automating the system od postgraduate studies and scientific research and activating electronic link.
7. Attracting the skilled academics and researchers from the internal and external environment.

5. Faculty Vision, Mission and Aims

Faculty Vision

Contemporary leadership in nursing sciences locally and regionally.

Faculty Mission

Preparing highly qualified nursing cadres that meet the needs of the labor market through educational and research programs

Faculty Aims

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 opportunities for continuing education to keep pace with developments, contribute to the advancement of the nursing profession, and stimulate and enhance creative thinking among students.
4. Work on developing the concept of belonging to the homeland by encouraging students, and their participation in relevant seminars and conferences.
5. Encouraging effective participation in university activities and community service programs.
6. Encouraging scientific research that contributes to solving community problems.

6. Department Mission and Aims

Department Mission

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.

Department Aims

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.

7. Program Mission and Aims

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.

Program Aims

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

8. Program Benchmarks

The design of the MCCN program has been developed with reference to a number of universities, policies and strategies.

Policies and Strategies

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

Universities Programs:

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

Methods used for the development of this program have included:

1. Discussion and feedback from academic staff: - As part of the quality assurance framework via workshop.
2. Internal strategic and program specific curriculum development groups.

- [ملحق \(1\) المعايير الأكاديمية للمحتوى لهيئة الاعتماد.](#)
[ملحق \(2\) مسح أسماء البرامج المماثلة للبرنامج الحالي.](#)
[ملحق \(3\) مسح مخرجات التعلم في البرامج المماثلة للبرنامج الحالي.](#)
[ملحق \(4\) مسح الساعات المعتمدة للبرامج المماثلة للبرنامج الحالي.](#)
[ملحق \(5\) مسح المقررات الدراسية في البرامج المماثلة للبرنامج الحالي.](#)

9. Survey Programs References to Current Program

| Information | Reference Programs | | | | | | 21 September University program |
|---|--------------------|-------------------------|--------------|---|-------------------------|----------------|--|
| | Program 1 | Program 2 | Program 3 | Program 4 | Program 5 | Program 6 | |
| Program title | MSc.CCN | MSc.CCN | MCCN | MSc.CCN | MSc.CCN | MSc.CCN | MCCN |
| Faculty/School | Nursing | Postgraduate studies | Nursing | Fakeeh college for medical sciences | Postgraduate studies | Nursing | Nursing |
| University | Al-Gazera | Jordanian | Sana'a | Medical sciences | An-Najah National | Al- Mansura | 21 September |
| Country | Sudan | Jordan | Yemen | KSA | Palestinian | Egypt | Yemen |
| Study system | Semester | Semester | Semester | Semester | Semester | Semester | Semester |
| Mode of delivery | Regular | Regular | Regular | Regular | Regular | Regular | Regular |
| No. of semesters | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Total CH of the program | | 27 | | 42 | 45 | | 31 |
| No. of CH for obligatory courses | | 21 | | 42 | 45 | | 31 |
| No. of CH for elective courses only | | 6 | | ----- | ----- | | ----- |
| No. of obligatory courses | | 8 | | 12 | 16 | | 11 |
| No. of elective courses | | 8 | | ----- | ----- | | ----- |
| Complementary requirement courses | | ----- | | ----- | ----- | | ----- |
| No. of CH for thesis only | | 9 | | ----- | 6 | | 6 |
| No. of CH for courses and thesis | | 36 | | 42 | 51 | | 38 |
| Duration of thesis | 12 M | 12 M | 12 M | Non-thesis | 12 M | 12 M | 12 M |
| Minimum duration of the program | 24 M | 24 M | 24 M | 24 M | 24 M | 24 M | 2 years |
| Maximum duration of the program | 36 M | 36 M | 36 M | 36 M | 36 M | 36 M | 3 years |

8. Intended Learning Outcomes of the Program

A. Knowledge and understanding

By the end of the program, the students 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. Intellectual Skills

By the end of the program, the students 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.

C. Professional skills and practices

By the end of the program, the students 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 outcomes

By the end of the program, the students 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.

9. Curriculum Map

| Code/ no | Program ILOs | | | | | | | | | | | | | | | | | | | |
|-------------|----------------------------------|----|----|----|----|----|---------------------|----|----|----|---------------------------------|----|----|----|----|-------------------------------|----|----|----|----|
| | Knowledge & understanding skills | | | | | | Intellectual skills | | | | Practical & professional skills | | | | | General & Transferable skills | | | | |
| | A1 | A2 | A3 | A4 | A5 | A6 | B1 | B2 | B3 | B4 | C1 | C2 | C3 | C4 | C5 | D1 | D2 | D3 | D4 | D5 |
| MMSG01 | | | | | | X | | | | | X | | | | | | | | | X |
| MMSG02 | X | | X | | | | | X | X | | | X | | | | | | | | |
| MMSG03 | | X | | | | | | X | X | | | | X | | | | | | | |
| MMSG04 | X | X | | | | | | | X | | | | | | | | | | X | |
| MMSG05 | | | | X | X | | | | X | | | | | | | | | | X | |
| MCCN01 | X | | | X | | | | X | | | | | | | | | | | | |
| MCCN02 | X | | | | | | X | | | | | | | | | | | | | X |
| MCCN03 | | | | X | X | | X | | | | X | X | X | X | | | | | X | |
| MCCN04 | X | | X | X | | | | X | | | | X | | X | | | X | X | | |
| MCCN05 | | | | | | X | | | | | | | | | | | | | | X |
| MCCN06 | | X | | | | | | | X | | | | | | | X | X | | | X |
| MCCN07 | | | | | | | | | | | | | | | | | | | | |
| MCCN08 | | X | | | | | | | X | | | | | | | | | | | X |

10. Learning & teaching strategy

| Teaching strategies | Description |
|---|--|
| 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. | Used in all courses (MNSG and MCCN) |
| 2. Lecture - Discussion: a short lecture/ address followed by Formal or informal discourse on topics usually primed by leading and/or open-ended questions. | Used in all courses (MNSG and MCCN) |
| 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. | Used in all courses (MNSG and MCCN) |
| 4. IT laboratory sessions: average number of students in session (20-30) students | Used in course (MNSG01) |
| 7. Demonstration: Faculty show how a skill should be performed or students are observed as they perform a skill. | Used only in all specialty courses (MNSG and MCCN) |
| 8. 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. | Used in all courses (MNSG and MCCN) |
| 9. Role Plays: Students assume one of the characters in a simulated situation in order to experience different points of view or positions. | Used only in all specialties courses (MCCN) |
| 10. 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. | Used in all courses (MNSG and MCCN) |
| 12. 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. | Used only in all specialties courses (MCCN) |
| 13. Clinical practices: Observations made or work carried on in a natural setting. | Used only in all specialties courses (MCCN) |

11. Assessment Strategies

| Item | Marks Distribution | Schedule |
|-----------------------------------|--------------------|---|
| Presentation | 10 | 4 th - 14 th |
| Assignments | 20 | 5 th - 14 th week |
| Mid-term exam | 20 | 7 th or 8 th week |
| Final-exam | 50 | 16 th -17 th week |
| Total Weight of the Course | 100 | |

12. Program Structure

| Types of study: | Semester system-Regular | | |
|---|--------------------------------|-----------|------------|
| No. of Credits Hour (CH) for the program | 40 (minimum 4 semester) | | |
| No. of CH requirements and their percentage out of total No. of program hours | | | |
| Requirements | No. of courses | No. of CH | % |
| Department requirements (Obligatory) | 5 | 11 | 28.9 |
| Specialty requirements (Obligatory) | 7 | 23 | 55.3 |
| Thesis | 1 | 6 | 15.8 |
| Total | 13 | 40 | 100 |

| Course Title | Code | Credits hours | | | | No. of Week | Actual hours for course | Pre-Requisites |
|--------------------------------------|--------|---------------|------------|---------|----|-------------|-------------------------|----------------------------|
| | | Theory | Prac/Clin. | Tuition | CH | | | |
| SPSS statistics | MNSG01 | 2 | 1 | | 3 | 16 | 48 | ----- |
| Management and leadership in nursing | MNSG02 | 2 | -- | | 2 | 16 | 32 | ----- |
| Research methodology | MNSG03 | 2 | -- | | 2 | 16 | 32 | MNSG01 |
| Clinical pharmacology | MCCN06 | 2 | -- | | 2 | 16 | 32 | ----- |
| Advanced Pathophysiology | MNSG04 | 2 | -- | | 2 | 16 | 32 | ----- |
| Medical Technology | MCCN01 | 2 | 1 | | 3 | 16 | 80 | MCCN02 |
| Critical care nursing I | MCCN02 | 2 | 2 | | 4 | 16 | 128 | MNSG04 MCCN01,06,07 |
| Critical care nursing II | MCCN03 | 2 | 2 | | 4 | 16 | 128 | MNSG04, MCCN01,02,06,07 |
| Critical care nursing III | MCCN04 | 2 | 2 | | 4 | 16 | 128 | MNSG04, MCCN01,02,06,07 |
| Emergency nursing | MCCN05 | 2 | 2 | | 4 | 16 | 128 | MNSG04, MCCN01,06,07 |
| Advanced Health assessment | MCCN07 | 1 | 1 | | 2 | 16 | 48 | ----- |
| Professional ethics | MNSG05 | 2 | --- | | 2 | 16 | 32 | ----- |
| Total | | 23 | 11 | | 34 | ---- | 848 | ----- |

Every 1 Clinical CH= 3 actual hours

| SN | Code | Course | Credits hours |
|----|--------|---------------|---------------|
| 1. | MCCN08 | Master Thesis | 6 |

13. Study Plan

First Year-Semester I

| Code/no | Course title | Theory | Prac/Clinic. | CH | Pre-Requisites |
|--------------|--------------------------------------|-----------|--------------|-----------|-------------------------|
| MNSG01 | SPSS Statistics | 2 | 1 | 3 | ----- |
| MNSG02 | Management and leadership in nursing | 2 | - | 2 | ----- |
| MCCN06 | Clinical pharmacology | 2 | - | 2 | MNSG01 |
| MNSG04 | Advanced pathophysiology | 2 | - | 2 | ----- |
| MCCN02 | Critical care nursing I | 2 | 2 | 4 | MNSG04, MCCN01,06,07 |
| MCCN07 | Advanced health assessment | 1 | 1 | 2 | ----- |
| MNSG05 | Professional ethics | 2 | --- | 2 | ----- |
| Total | | 13 | 4 | 17 | |

Every 1 Clinical CH= 3 actual hours

First Year-Semester II

| Code/no | Course title | Theory | Clinical | CH | |
|--------------|---------------------------|-----------|----------|-----------|----------------------------|
| MCCN01 | Medical Technology | 2 | 1 | 3 | MCCN02 |
| MCCN03 | Critical care nursing II | 2 | 2 | 4 | MNSG04, MCCN01,02,06,07 |
| MCCN05 | Emergency nursing | 2 | 2 | 4 | MNSG04, MCCN01,06,07 |
| MNSG03 | Research methodology | 2 | - | 2 | MNSG01 |
| MCCN04 | Critical care nursing III | 2 | 2 | 4 | MNSG04, MCCN01,02,06,07 |
| Total | | 10 | 7 | 17 | |

Every 1 Clinical CH= 3 actual hours

Second Year- Third and Fourth semester

| Code/no | Course title | Theory | Practical | CH |
|---------|---------------|--------|-----------|----|
| MCCN8 | Master Thesis | -- | 6 | 6 |

14. Eligibility for Admission

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.

15. Regulations for Progression and Program Completion

- Attendance required for admission to examination
- No candidate shall be permitted to appear in any one of the parts of MCCN Degree course Examinations unless he/she has attended the course in the subject for the prescribed period in an affiliated institution recognized by this University.
- A candidate is required to put in a minimum of **75%** of attendance in both theory and practical separately in each subject before admission to the examinations.
- If the candidate is lacking attendance in any one of the subject(s), he/she will be detained for the subject(s) in whom the candidate lacks attendance but will be permitted to appear for the rest of the subjects in which the candidate is having minimum required percentage of attendance.

16. Program Completion

- Master in CCN is offered as a one-year full time course and one year for thesis. Students need to complete 40 credits hours in order to obtain the Master degree in critical care nursing.
- However, the student may still be transferred if he/she has failed in not more than two subjects.
- Total pass degree for study year is 75% in case the student less than 75% he/she awarded diploma degree

17. Graduation requirements

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

19. Degree classification

The classification degree in each course as a follows:

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

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

| | |
|-----------|-----------------------------------|
| Excellent | From 90% to 100% from total marks |
| Very Good | From 80% to 89% |
| Good | From 75% to 79% |

20. Learning resources required to deliver the program

1. Teachers, technical and administrative staff
2. Teaching rooms
3. Whiteboards/ Data show
4. Lectures notes
5. Clinical training (hospitals)
6. Books/journals
7. Library

21. Academic Staff

| Academic Staff Requirement | Professor | Associate Professor | Assistant Professor |
|----------------------------|-----------|---------------------|---------------------|
| Academic Staff Available | 2 | 3 | 3 |

22. Program Evaluation and Improvement

| Target group | Assessment Methods | Sample size |
|---------------------|---------------------|-------------|
| Final year students | Questionnaire 1 | 10% |
| Graduate students | Questionnaire 1 | 10% |
| Stakeholders | Questionnaire 2 | 10% |
| Academic staff | Workshop | 100% |
| External Evaluator | Feedback & Comments | 100% |

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