



الجامعة الوطنية - السودان
National University - Sudan

**Master Degree of
Pediatric and
Child Health Nursing**





Introduction

Nursing field has undergone a paradigm shift; the rapidly changing healthcare environment, increasingly complex diseases and advances in technology and a shift of care from hospital to community settings all require well-prepared highly competent educated nurses to keep pace with the tremendous progress in health and medical science. Competency is central to Pediatric nursing practice and it is a critical contemporary issue to ensure a future supply of high quality nursing care. It is important to ensure alignment of new curricula with global standards complemented with the reflection of local culture, context and population health needs. There is an ongoing critical nursing shortage globally , which results from insufficient qualified nurses . The specialists in pediatric nursing forming barely 1% of the nursing workforce in African region . Strengthening pediatric nurse education has been recommended as a primary strategy to reduce mortality in children younger than 5 years and achieving SDGs.

This program is intended to prepare specialist nurses in pediatric nursing for positions of clinical based leadership, pediatric nurse specialists, consultants, educators, administrators and researchers in a wide variety of professional settings in meeting the National priorities and the changing needs of the children and their families in different communities through the acquisition of specific education, training, and well defined competencies and specific skills.

General objective

The aim of this curriculum is to prepare graduates to assume responsibilities as specialists in Pediatric nursing, as well as educators, researchers and administrators.

Specific objectives

The program goals will focus on the followings:

1. Education:

Graduate nurses who possess an in-depth evidence- based knowledge and good foundation relevant to the art of pediatric nursing felids.

Perform national and global standard in pediatric nursing practice with sound of ethical and professional attitude.

Enhance the learners' ability to be a self and lifelong learners.

2. Service:

Provide a high quality nursing service for the population with respect to their cultural diversity.

Help in bridging the gap in services and education by graduating good number of well-trained pediatric nurses.

3. Research:

Conduct researches that help in solving the community health problems, with the priority to child health problems.

Utilize research outcomes in developing policies, guidelines , pathway and improving the children health.

Expected learning outcomes

Upon completion of the program the learners are expected to :

In the Knowledge domain

- Apply current and updated and evidence –based nursing knowledge in pediatric nursing.
- Recognize the role and responsibilities of pediatric nurse as a member of the health team in different health care settings and community.
- Discuss the normal growth and development for all age groups.
- Demonstrate a sound knowledge and understanding of relevant nursing

management for:

- Medical,
- Surgical,
- Psychosocial

Interventions in acute and chronic illness and in rehabilitation, as well as end-of-life care.

In the Skills Domain:

- Communicate effectively with healthy and sick children in different age groups families.
- Provide safe , protective and infection controlled environment for all nursing interventions for health care settings and community.
- Recognize and manage pediatrics life-threatening and end of life conditions in effectively in all age groups.

In the Attitude Domain:

- Demonstrate respect to age, gender language, religion and cultural diversity for children and their families without prejudice.
- Apply the principles of ethics: (Beneficence, non-Maleficence, justice, autonomy, and privacy/ confidentiality) in nursing practice.
- Adhere to national, regional and international guidelines and the local laws applicable to pediatric and child health nursing practice.
- Demonstrate respect for colleagues and other healthcare professionals and the ability to foster a positive collaborative relationship with them.
- Discuss national and global child health trends and their implications.

Admission Requirements

Applicants must satisfy the Regulations of the Ministry of Higher Education and Scientific Research and the General Regulations of the Faculty of Graduate Studies and Scientific Research of the National University-Sudan for registration for Master Degrees

Eligible candidates are holders of:

- B.Sc. (Honors) Nursing with a grade “Good” (Second Class-Division Two) minimum or GPA ≥ 2.5
- B.Sc. (Honors) Nursing with a grade “Pass” (Third Class) in addition to a qualifying of 12 credit hours
- B.Sc. (General) Nursing with a grade “Good” in addition to Postgraduate Diploma in Nursing.

Award of the Master Degree in Pediatric and Child Health Nursing

Eligibility

- to be eligible for the award of Master Degree in Nursing, a student must have completed the specified duration of the program and fulfilled all the requirements established for each course within the respective program

Type of Curriculum and Duration of the Study

- The Pediatric and Child Health Nursing curriculum is designed based on the semester system. The duration of the program is three semesters. Each semester contains 12-16 credit hours, excluding examination periods conducted after the end of each semester, in line with programs at other nursing faculties.
- Each course is assigned a specific number of credit hours based on its content and educational significance.
- During each semester, students undertake multiple courses that include theoretical lectures, skills lab practice, and clinical practice in hospitals

and health centers.

- At the end of the third semester, the student submits their desertion to fulfill the requirements for obtaining a master's degree Pediatric and Child Health Nursing

Study program

Program Map

Semester One

Contact Hours / Week		Credit Hours	Arabic	Course
Practical	Theory			
-	2	2(2+0)	التفكير الناقد وحل المشكلات	NUR-611 Critical Thinking and Problem Solving
-	2	2(2+0)	علم الوبائيات	NUR-612 Epidemiology
-	2	2(2+0)	الاحصاء الصحي	NUR-613 Health statistics
4	3	4(3+1)	صحة الطفل	NUR-614 Child Health Care
6	2	4(2+2)	تمريض حديثي الولادة	NUR-615 Neonatal Nursing
10	9	14 (9+3)		Total

Semester Two

Contact Hours / Week		Credit Hours	Arabic	Course
Practical	Theory			
-	2	2 (2+0)	مناهج البحث العلمي	NUR-621 Research Methodology
3	1	2 (1+1)	المعلوماتية في التمريض	NUR-622 Nursing Informatics

-	2	2 (2+0)	التدريب المبني على الأدلة والبراهين	NUR-623 Evidence Based Nursing
-	2	2 (2+0)	تعليم المهنة الصحية	NUR-624 Health Profession Education
6	2	4 (2+2)	تدريب الأطفال الباطني	NUR-625 Paediatric Medical Nursing
3	1	2 (1+1)	تدريب الأطفال الجراحي	NUR-626 Paediatric Surgical Nursing
1	9	14(9+4)		Total

Semester Three

Contact Hours / Week		Credit Hours	Arabic	Course
Practical	Theory			
0	2	2 (2+0)	الإدارة والقيادة في التمريض	NUR- 631 Management and Leadership
9	3	6 (3+3)	تدريب الحالات الطارئة والحرجة للأطفال	NUR-632 Emergency and Critical Paediatric Nursing
6	0	6(0+6)	بحث التخرج	NUR-633 Dissertation
15	5	14 (5+9)		Total

Key hours

- 1 credit hour = 1 hour lecture
- 1 credit hour = 2 practical , tutorial , seminar or self- directed learning hours.
- 1 credit hour = 3 Clinical hours
- 1 credit hour = 4 field hours

Courses Contents

NUR -611 Critical Thinking and Problem Solving

Definition of critical thinking, steps, elements, characteristics, importance,

purpose, basic principles of Critical Thinking; Skills enhance ability of critical thinking to solve a problem; Types of thinking skills to solve the problem ;Techniques of critical thinking to solve the problem ;Clinical reasoning, methods and steps to improve critical thinking skills; Criteria of good critical thinking questions to solve the problem ;Evaluate Information ;Test critical thinking to solve a problem; Problem Solving and Implementation of critical thinking in nursing practice to solve the problem.

NUR-612 Epidemiology

Definition ,concepts, principles and types of epidemiology; Scope, epidemiological approach and methods; Morbidity and mortality; Concepts of causation of diseases and their screening; Measuring diseases and their distribution ; Standardization of measures of disease occurrence; Application of epidemiology in health care delivery, Health surveillance and health informatics and Role of nurse in screening.

NUR-613 Health Statistics

Describing numbers; Idea to improve the value of numbers ; Adapting the numbers; Using numbers to answer questions and Use of statistical methods in psychology and education:

NUR-614 Child Health Care

Overview of pediatrics and Child Health Nursing; The Child in the context of the family; Pre – natal pediatric Nursing, Advanced genetics and genomic influences in pediatric nursing; Community Pediatrics and Pediatric Nursing; Health Promotion and Maintenance for the Developing Child: Overview of Growth and Development, Growth and Development and age appropriate health promotion and maintenance for : Infants , Toddler, Pre- school age, School age and Adolescents; The role of play in children's growth and development; Nurse's Role and responsibilities in promoting optimal Growth and Development; Preventive Pediatric Nursing & Communicable Diseases; Cognitive alterations; Developmental and behavioral disorders.

NUR-615 Neonatal Nursing

Definition of terminology: Physiological Transition of the Newborn to extra uterine life; Caring for the Normal Newborn; Caring for the Newborn at Risk: The Neonatal Intensive Care Unit (NICU), The High risk Newborn, Nursing management of neonates with Medical / Surgical problems.

NUR-621 Research Methodology

Definition, characteristics, purposes, kinds of research ;Review of Literature ; Research problem; Sampling; Tools and methods of data collection; Implementing research plan

And Analysis and interpretation of data.

Practice: Developing and presenting research proposal.

NUR-622 Nursing Informatics

Module 1: Introduction to Informatics; Module 2: Electronic Records; Modules 3: Nursing Practice Applications; Modules 4 :Informatics in Nursing Education and Informatics in Health Care Research.

NUR-623 Evidence Based Nursing

Introduction to evidence based practice :Definition evidence-based practice (EBP) and steps of EBP; Asking the Clinical Question :Identifying the Problem and PICOT format.

Construct a PICOT format question; Components of an answerable and searchable question

Searching Evidence: Databases that guide healthcare literature, sources of internal and external evidence; Valuating the Evidence: Strength of evidence definition, Judgments of the quality and usefulness of evidence; Evaluating Outcomes; Define outcome management and evidence sources to measure outcomes.

NUR-624 Health Profession Education

Nursing Educational; Curriculum Development: Definition, design, Components, types, process and steps of curriculum development, Formulation of philosophy and objectives; Teacher preparation: Teacher roles and responsibilities, functions, characteristics, competencies, qualities, Preparation of professional teacher; Examinations design: Types of examination question: Good criteria and uses of various types of examination questions ; Multiple choice and Health Education: Aim, Definition, Importance of health education.

Barriers to effective health education and Modern strategies of implementing effective health education

NUR-625 Pediatric Medical Nursing

Children's Reactions to Hospitalization and major hospital stressors , Factors Affecting Children's Reaction to Hospitalization, The impact of hospitalization on children

and their families, Nursing care of the hospitalized child and The Nurse's Role in Caring for the Hospitalized Child; Pediatric Assessment and History taking and

Nursing management of children with following medical health problems

NUR-626 Pediatric Surgical Nursing

Pre-operative and preparations for pediatric and the role responsibilities of the nurse regarding informed consents: Post-operative nursing care and Nursing management of the child with traumatic injuries: Trauma, Burns, Head injury, abdominal injury, poisoning, foreign body obstruction, burns & Bites; Management of stomas, catheters and tubes; Management of wounds and drainages; Assessment and nursing interventions in selected pediatric congenital surgical problems including : Cleft lip and cleft palate, esophageal fistula/atresia, Hirschsprungs' disease/megacolon, gut mal-rotation, intestinal obstruction, duodenal atresia, gastrochisis, exomphalus, anorectal malformation, omphalocele, diaphragmatic hernia, spina bifida, meningocele, my-

elomeningocele, hydrocephalus, hypospadias, epispadias, undecided testes, bladder exstrophy, and anomalies of the skeletal system and fractures and Nursing management for patients with stomas, catheters and tubes.

NUR-631 Management and Leadership

Introduction: Concept, aims, objectives, theories, and principles of management; Management theories; Management functions and attributes necessary for effective management and Principles and theories of management applied to nursing services and nursing education ; Roles and functions of nurse manager in planning; Roles and functions of nurse manager in organizing and Organizational behavior.

NUR-632 Pediatric Emergency and Critical Care

Set-up of emergency room including equipment supplies, use and care of various type of monitors , defibrillators and AEDs; Standards and scope of service common policies and procedures and protocols used in ER. Definition of Triage, Sorting-out sick children with the following categories: Emergency signs, With priority signs, Those who are non-urgent cases; Emergency nursing management for children with : Airway and breathing problems , Circulation problems, Common Injuries and Trauma in children , Shock, coma, Convulsions and Infants and children CPR; Set-up of emergency Critical care units ER ,PICU , and Renal Unit including equipment supplies, use and care of various type of monitors , ventilators and dialysis machines .etc and Pediatric end-of-life care.

NUR 634 Dissertation

Write a research proposal; Conduct research: Research methodology, Data collection and management, Interpretation of results, Prepare a dissertation document; Preliminaries: Title Page, Abstract, Acknowledgement; Introduction; Literature review and Results, Discussion; Conclusions and Recommendations ;References and Appendices.

Required Resources (in details):

Human:

- Academic (Medical and Nursing) staff.
- Clinical instructors / preceptors.

Physical facilities and resources:

- Lecture hall with audio visual aids and internet and flip charts .
- Seminars/ tutorial rooms
- ER , PICU , Renal Unit
- Transportation clinical training

Examinations Regulations: Procedures and Conditions

Examinations Regulations: Procedures and Conditions

- Students must abide by Examinations Rules set by the Faculty Graduate Studies and Scientific Research of the National University-Sudan
- Student completed a course but was unable to sit for its examination for acceptable reason shall be allowed a substitute examination
- Medical reports are not accepted unless approved by the Medical and Health Services of El-Ragi Teaching Hospital
- The medical report should be submitted to the Programme Coordinator, within the seven days following the date of the examination
- Medical reports are not accepted if a student sat for the examination
- Student submitted a medical report is not allowed to sit for the examinations during the period covered by the medical report and if sat the results will be canceled
- The pass mark for any course is 60% and student must succeed in both theoretical and the practical components of each course separately
- A student missing an examination without acceptable reasons will be assigned failure in the concerned course (s)
- Student has the right to:
 - » Sit for supplementary examinations in no more than 1/3 of the number of courses

- » Re-sit for the examination in all courses if failed in more than 1/3 to 1/2 of the number of courses
- Student failing in more than 50 % of the courses will be discontinued
- Student failing in more than 50 % of the courses of a semester will be discontinued
- Student failing in a supplementary examination of one or more courses in either of the semesters prior to the last one shall be discontinued
- Student failing in a supplementary examination of one or more courses in last semester be allowed extra chances to re-sit for examination within the double period allocated for the program.
- Supplementary examinations convene after the final examinations of each semester

Grading System

A+ (90-100) A (80-89) B+ (75-79) B (70-74) C+ (65-69) C (60-64) F (<60)

Award of the Degree

The Scientific Council of the National University-Sudan, based on the recommendation of the Board of the Faculty of Graduate Studies and Scientific Research, shall award the successful candidate:

Maser of Pediatric Nursing



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