



NURSING AND MIDWIFERY COUNCIL OF ZAMBIA

(Nurses and Midwives Act. No 10, 2019)

BACHELOR OF SCIENCE IN NURSING SYLLABUS

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The Registrar & CEO
Nursing and Midwifery Council of Zambia
P.O Box 33521
Lusaka

Telephone No: +260 211 221284

Fax: +260 2112244893

Email: nmcz@nursing.org.zm

FIRST EDITION

FOREWORD

The development of the Bachelor of Science in Nursing (BSc Nursing) syllabus is a significant milestone in promoting uniformity of nursing education in Zambia. This syllabus is the culmination of extensive research, consultation, and collaboration with various stakeholders.

The Nursing and Midwifery Council of Zambia (NMCZ) is dedicated to promoting the highest standards of nursing and midwifery education and practice in Zambia as enshrined in the Nurses and Midwives Act 10 of 2019. This syllabus demonstrates this devotion which is designed to equip clinical nurses and educators with the necessary knowledge, skills, and attitudes to provide safe, high-quality, and patient-centred care.

The BSc Nursing syllabus embraces contemporary trends and advancements in healthcare and nursing education. It is comprehensive, competency-based, and in line with the national health priorities. It further emphasises critical thinking, clinical decision-making, leadership, education and research, all of which are required for effective nursing practice in the twenty-first century.

The NMCZ believes that this syllabus will adequately prepare the nurses to fulfil the diverse health requirements of populations and respond effectively to the issues facing our healthcare system. This will ultimately improve healthcare outcomes in Zambia.

We look forward to the successful implementation of this syllabus and to the positive impact it will have on nursing education and practice in Zambia.



Board Chairperson

Nursing and Midwifery Council of Zambia

ACRONYMS

ABG	Arterial Blood Gas
AIDS	Acquired Immune Deficiency Syndrome
ALS	Advanced Life Support
AUB	Abnormal Uterine Bleeding
BLS	Basic Life Support
BSc.	Bachelor of Science
CA	Continuous Assessment
CHN	Community Health Nursing
COPD	Chronic Obstructive Pulmonary Disease
CPD	Continuous Professional Development
CVA	Cerebral vascular Accident
ECG	Electrocardiogram
EENT	Eye, Ear, Nose and Throat
ENT	Ear, Nose and Throat
HEA	Higher Education Authority
HIV	Human Immunodeficiency Virus
ICP	Intracranial Pressure
ICU	Intensive Care Unit
IMNCI	Integrated Management of Neonatal and Childhood Illnesses
NICU	Neonatal Intensive Care Unit
NMCZ	Nursing and Midwifery Council of Zambia
PE	Pre-eclampsia
PHC	Primary Health Care
PICU	Paediatric Intensive Care Unit
SPSS	Statistical Package for Social Sciences
STIs	Sexually Transmitted Infections

ACKNOWLEDGEMENT

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We sincerely acknowledge the efforts of academic staff from different Higher Learning Institutions; Cavendish University, Eden University, University of Lusaka, Mulungushi University, Apex University and the University of Zambia, for working tirelessly towards bringing this syllabus to realization. We appreciate the guidance and technical support rendered throughout the process of development of the syllabus.

Lastly but not the least, NMCZ is grateful to the BSc Nursing Syllabus development and validation technical teams as well as its members of staff for having worked tirelessly to ensure timely completion, editing, and formatting of the syllabus.



The Registrar & CEO

Nursing and Midwifery Council of Zambia

INTRODUCTION

The Bachelor of Science in Nursing (BSc Nursing) syllabus, is a transformative initiative aimed at enhancing the quality of nursing education in Zambia. This syllabus is a product of rigorous academic scrutiny and practical considerations, designed to meet the dynamic healthcare needs of our society.

This syllabus is a comprehensive educational framework that outlines the academic and practical components necessary for the training of competent, caring and compassionate clinical nurses and educators. It encompasses a wide range of courses, from “A” levels, basic health sciences to advanced nursing practice, ensuring a holistic approach to nursing education.

The duration of the learning programme is four years. In year one, students learn A level courses as an entry prerequisite into Bsc. Nursing programme, Year two covers foundational courses to nursing practice. Year three covers critical courses which form the basis of nursing care and introduce students to not only the scientific basis of diseases, but also the basic principles of pharmacology. It also covers scientific methods and data that inform nursing decisions and improve patients’ outcome. The final year grounds nursing students in the subspecialties. It further introduces nursing students to the principles and strategies of leading and managing teams, projects and organizations as well as principles of nursing education. It is important to note that nursing practicum has been introduced as course at all levels of training to enhance application of theory to practice.

This syllabus will serve as a guide to understanding the core competences, rationale, structure, and content of the BSc Nursing syllabus. It is our hope that this syllabus will serve as a valuable resource for nursing educators, students, and all stakeholders in nursing education in Zambia.

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BACHELOR OF SCIENCE IN NURSING SYLLABUS

LEARNING PROGRAMME

BSc in Nursing

QUALIFICATION TITLE

Bachelor of Science in Nursing

LEVEL OF QUALIFICATION

ZQF Level 7

DURATION OF TRAINING

Four years

GOAL

The syllabus will be a reference framework to the BSc in Nursing programme curriculum developers and implementers in all Higher Learning Institutions.

RATIONALE

This syllabus has been designed to standardize training and practice of BSc nursing students across Higher Learning Institutions in Zambia.

CORE COMPETENCES

The competencies for the BSc in Nursing graduates have been adapted from the International Council of Nurses competency framework cited by (Currie & Carr-Hill, 2013). The competencies are as follows:

- i. **Patient centered care:** Provide comprehensive treatment that is compassionate, coordinated, age and culturally appropriate, safe, and effective, while taking into account the preferences, values, and needs of each patient.
- ii. **Professionalism:** Demonstrate accountability for providing standard-based nursing care in accordance with Nursing and Midwifery Council of Zambia (NMCZ) standards, while adhering to moral, altruistic, legal, ethical, regulatory, and humanistic values.
- iii. **Leadership:** Guide and influence the behaviour of individuals and groups within their environment and facilitate establishment of common goals.

- iv. **System-based practice:** Demonstrate knowledge and response to the healthcare system's context, as well as the capacity to manage resources required to offer optimal quality treatment.
- v. **Health informatics and Technology:** Use technology, synthesise information, and work together to make key decisions that improve patient outcomes.
- vi. **Communication:** Interact effectively with patients, families, and colleagues, emphasising mutual respect and collaborative decision-making to improve patient satisfaction and health outcomes.
- vii. **Teamwork and Collaboration:** Work well with nursing and interdisciplinary teams, encouraging open communication, mutual respect, shared decision-making, and team learning and development.
- viii. **Safety:** Reduce the risk of injury to patients and providers by improving system effectiveness and individual performance.
- ix. **Quality improvement:** Use data to track the results of care processes, and use improvement methodologies to create and test changes to continuously improve the quality and safety of the healthcare delivery system.
- x. **Evidence based practice:** To make informed judgements, find, assess, and apply the best available evidence in conjunction with clinical knowledge and the patient's preferences, background, and values.

ENTRY REQUIREMENTS

The admission requirements for BSc Nursing will be:

1. PRE-SERVICE (SCHOOL LEAVERS WITH “O” LEVELS)

- a) Five subjects from School Leaving Certificate or the equivalent as follows:

“O’ Levels at least at credit level in:

- English Language
- Mathematics
- Any Science subject
- Any other two (2) subjects

2. PRE-SERVICE (APPLICANTS WITH “A” LEVELS)

a) Five subjects from School Leaving Certificate or the equivalent as follows:

“O’ Levels at least at credit level in:

- English Language
- Mathematics
- Any Science subject
- Any other two (2) subjects

b) Four international ‘A’ Levels with at least passes (grade C) obtained from a recognised institution as follows:

- Mathematics
- Chemistry
- Biology
- Physics

3. IN-SERVICE (APPLICANTS WITH CERTIFICATE IN NURSING OR MIDWIFERY)

a) Certificate in Nursing or Midwifery

b) Five subjects from School Leaving Certificate or the equivalent as follows:

“O’ Levels at least at credit level in:

- English Language
- Mathematics
- Any Science subject
- Any other two (2) subjects

c) Valid practicing licence

4. IN-SERVICE (APPLICANTS WITH DIPLOMA IN NURSING OR MIDWIFERY)

a) Diploma in Nursing or equivalent qualifications for those trained outside the country

b) Five subjects from School Leaving Certificate or the equivalent as follows:

“O’ Levels at least at credit level in:

- English Language

- Mathematics
- Any Science subject
- Any other two (2) subjects

c) Valid practicing licence

PROGRAMME STRUCTURE

The BSc. in Nursing programme will be offered for four years in order to enhance professional competencies. Each academic year will consist of a minimum number of 1200 of notional hours translated into 120 credits as stipulated by the Higher Education Authority (HEA) (HEA, 2021). These hours will be reserved for theory (1/3), and the remaining 2/3 devoted to; laboratory sessions, clinical practice, and field visits ((NMCZ, nd).

Further, as a guide, a semester course will consist a minimum of 150 notional hours (15 credits) while a course that is offered throughout the academic year will have a minimum of 300 notional hours (30 credits). Therefore, 10 notional hours translates into one (1) credit.

EXEMPTIONS

Exemptions shall be guided by the HEA 2021 guidelines exemption policy.

A. PRE-SERVICE ENTRANTS (Applicants with “A” Levels): Year one courses

B. IN-SERVICE ENTRANTS: (Nurses with a certificate in Nursing or Midwifery))

Year one courses:

1. Cellular, Molecular Biology and Genetics
2. Introductory Chemistry
3. Introductory Mathematics, Statistics and Probability
4. Introductory Physics

Year Two courses:

1. Fundamentals of Nursing Practice
2. Behavioural Sciences

Year Three courses:

1. Pharmacology

C. IN-SERVICE ENTRANTS (Nurses with Diploma in Nursing or Midwifery)

Year one courses:

1. Cellular, Molecular Biology and Genetics
2. Introductory Chemistry
3. Introductory Mathematics, Statistics and Probability
4. Introductory Physics

Year Two courses:

1. Fundamentals of Nursing Practice
2. Human Anatomy
3. Physiological Sciences
4. Behavioural Sciences

Year Three courses:

1. Adult Medical-Surgical Nursing I
2. Adult Medical-Surgical Nursing II
3. Public Health Nursing

D. SPECIFIC EXEMPTION: Dependent on individual specialization

ASSESSMENTS

Continuous Assessment (CA) shall constitute 40% while the final examination will be 60%.

Continuous assessment and final examination for clinical courses shall constitute theory and clinical components.

COURSES PER YEAR

YEAR ONE COURSES

Cellular, Molecular Biology and Genetics

Course Status: Full

Notional hours: 320

- 1.1 Atomic Theory
- 1.2 Water
- 1.3 Biomolecules
- 1.4 Cells
- 1.5 Molecular Biology
- 1.6 Genetics

Introductory Chemistry

Course Status: Full

Notional hours: 350

- 2.1 Stoichiometry
- 2.2 Atomic structure and the periodic table
- 2.3 Nature of Chemical Bonding
- 2.4 Sampling and treatment of analytical data
- 2.5 Electrochemistry
- 2.6 Thermal chemistry
- 2.7 Chemical kinetics
- 2.8 Equilibrium
- 2.9 Analytical techniques
- 2.10 Principles and basics of organic chemistry

Introductory, Mathematics Statistics and Probability

Course Status: Full

Notional hours: 350

- 3.1 Sets
- 3.2 Functions
- 3.3 Vectors and matrices
- 3.4 Equations and inequalities
- 3.5 Partial Fractions
- 3.6 Transcendental fractions
- 3.7 Binomial expansions
- 3.8 Differential calculus
- 3.9 Integral calculus
- 3.10 Descriptive statistics
- 3.11 Probability
- 3.12 Probability distribution

Introductory Physics

Course Status: Full

Notional hours: 180

- 3.13 Mechanics
- 3.14 Properties of materials
- 3.15 Heat and thermal dynamics
- 3.16 Waves and thermal dynamics
- 3.17 Optics
- 3.18 Electricity and magnetism
- 3.19 Nuclear physics

YEAR TWO COURSES

1.0 Fundamentals of Nursing Practice

Course Status: Full

Notional Hours: 280

- 1.1 History and trends in professional nursing
- 1.2 The Nurse, Multidisciplinary Health Care team, and health care delivery
- 1.3 Health, Wellness and Illness
- 1.4 Introduction to Nursing theories and models
- 1.5 The Nursing process and Documentation
- 1.6 Provision of a safe hospital environment
- 1.7 Reception and care of clients' needs
- 1.8 Pain assessment and management
- 1.9 Experience of loss, death, and grief
- 1.10 First Aid and Basic Life Support

2.0 Ethics, Professionalism and Student Support

Course Status: Half

Notional Hours: 40

- 2.1 Training Institutional governance and student support services
- 2.2 Academic and professional writing
- 2.3 Ethics, professionalism and etiquette in nursing practice
- 2.4 Policies, legislation and legal aspects of nursing practice
- 2.5 Attitudes and interpersonal relationships
- 2.6 Communication
- 2.7 Assertiveness
- 2.8 Reflection and self-evaluation

3.0 Human Anatomy

Course Status: Full

Notional Hours: 180

- 3.1 General Principles of Anatomy
- 3.2 Systemic Anatomy
 - 3.2.1 Integumentary
 - 3.2.2 Musculoskeletal
 - 3.2.3 Gastrointestinal Tract
 - 3.2.4 Cardiovascular and Lymphatic system
 - 3.2.5 Respiratory
 - 3.2.6 Urinary
 - 3.2.7 Endocrine
 - 3.2.8 Nervous system
 - 3.2.9 Reproductive
 - 3.2.10 Special senses

4.0 Physiological Sciences

Course Status: Full

Notional Hours: 270

- 4.1 Human Physiology
 - 4.1.1 Cell physiology
 - 4.1.2 Physiology of the nerve
 - 4.1.3 Synaptic and functional transmission
 - 4.1.4 Muscle physiology
 - 4.1.5 Blood and its constituents
 - 4.1.6 Gastrointestinal Tract system
 - 4.1.7 Cardiovascular system
 - 4.1.8 Respiratory system
 - 4.1.9 Renal system

- 4.1.10 Endocrine system
- 4.1.11 Nervous system
- 4.1.12 Special senses
- 4.2 Biochemistry
 - 4.2.1 General principles
 - 4.2.2 Carbohydrate metabolism
 - 4.2.3 Lipid metabolism
 - 4.2.4 Amino acids, nucleic acids metabolism and protein synthesis

5.0 Behavioural Sciences

Course Status: Full

Notional Hours: 180

- 5.1 Health Sociology
 - 5.1.1 Introduction and historical development of sociology
 - 5.1.2 Social systems
 - 5.1.3 Social units
 - 5.1.4 Social determinants of health
 - 5.1.5 Gender and Health
 - 5.1.6 Social change and development, and demography of health
 - 5.1.7 Sick role and healing options
 - 5.1.8 Health care delivery and social policies
 - 5.1.9 Deviance and collective behaviour
 - 5.1.10 Social stratification, urbanization and Industrialisation
- 5.2 Health Psychology
 - 5.2.1 Basic concepts
 - 5.2.2 Theories of growth and development
 - 5.2.3 Personality and Defence mechanisms
 - 5.2.4 Memory, learning, and Intelligence
 - 5.2.5 Sensation and Perception
 - 5.2.6 Theories of psychosomatic illnesses

5.2.7 Motivation

5.2.8 Psychosocial Counselling

6.0 Pathology and Microbiology

Course Status: Full

Notional Hours: 250

- 6.1 General Pathology
 - 6.1.1 Introduction to pathology
 - 6.1.2 Cellular response to injury
 - 6.1.3 Inflammation
 - 6.1.4 Tissue healing and repair
 - 6.1.5 Haemodynamics disorders
 - 6.1.6 Human genetics
 - 6.1.7 Neoplasms
- 6.2 Systemic Pathology
 - 6.2.1 Lymphatic system
 - 6.2.2 Cardiovascular system
 - 6.2.3 Respiratory system
 - 6.2.4 Urinary system
 - 6.2.5 Reproductive system
 - 6.2.6 Gastrointestinal system
 - 6.2.7 Nervous system
 - 6.2.8 Integumentary
- 6.3 Immunology
- 6.4 Parasitology
 - 6.4.1 Protozoology
 - 6.4.2 Helminthology
 - 6.4.3 Medical entomology
- 6.5 Bacteriology
- 6.6 Virology
- 6.7 Mycology
- 6.8 Laboratory Sessions

Clinical Practice

1. Clinical drills
2. Laboratory sessions
3. General ward allocation:
 - a) Adult medical wards
 - b) Adult surgical wards

YEAR THREE COURSES

1.0 Adult Medical – Surgical Nursing I

Course Status: Full

Notional Hours: 330

- 1.1 Introduction to Medical-Surgical Nursing
- 1.2 Principles of Medical – surgical nursing
- 1.3 Health Assessment and clinical reasoning
- 1.4 Review and application of nursing theories and models
- 1.5 Management of a patient undergoing surgery
- 1.6 Critical care nursing
 - 1.6.1 Introduction to Critical Care Nursing
 - 1.6.2 Special investigations and procedures
 - 1.6.3 ABG, Lung volumes
 - 1.6.4 Respiratory assessment
 - 1.6.5 Ventilation
 - 1.6.6 Bagging and suctioning
 - 1.6.7 Cardiovascular assessment
 - 1.6.8 Introduction to Electrocardiogram (ECG)
 - 1.6.9 Fluid balance and management
 - 1.6.10 Massive blood transfusion
 - 1.6.11 Assessment of renal function
 - 1.6.12 Thermoregulation and therapeutic hypothermia
 - 1.6.13 Multi-organ dysfunction syndrome
 - 1.6.14 Neurological assessment
- 1.7 Emergency and trauma nursing
 - 1.7.1 Introduction to Emergency and Trauma nursing
 - 1.7.2 Special emergency procedures
 - 1.7.3 Emergency and Disaster Preparedness
 - 1.7.4 Orientation to ambulance services
 - 1.7.5 Primary survey

- 1.7.6 Secondary survey
- 1.7.7 Triage
- 1.7.8 Basic Life Support
- 1.7.9 Advanced Life Support
- 1.7.10 Emergency trolley
- 1.7.11 Shock assessment and management
- 1.7.12 Massive blood transfusion
- 1.7.13 Assessment and management of electrolyte imbalances
- 1.8 Management of patients with Inflammation, Trauma, Burns and Wounds
- 1.9 Oncology
 - 1.9.1 Introduction, classification and characteristics
 - 1.9.2 Nursing management of patients undergoing
 - 1.9.2.1 Chemotherapy
 - 1.9.2.2 Radiotherapy
 - 1.9.2.3 Surgery
 - 1.9.2.4 Nuclear medicine
- 1.10 Palliative care
 - 1.10.1 Introduction
 - 1.10.2 Palliative care policies and regulation
 - 1.10.3 Approaches to assessment in palliative care
 - 1.10.4 Pain and symptom management
 - 1.10.5 Psychosocial and spiritual care
 - 1.10.6 Bereavement care
 - 1.10.7 Ethical considerations
 - 1.10.8 Management of common symptoms in life-limiting illnesses
- 1.11 Management of HIV/AIDS, Antiretroviral Therapy and Opportunistic Infections
- 1.12 Medical-surgical Management of patients with disorders of the Gastrointestinal and Accessory Organs
 - 1.12.1 Special investigations and procedures
 - 1.12.2 Carcinoma of the gastrointestinal tract
 - 1.12.3 Oral and oesophageal disorders

- 1.12.4 Stomach and duodenal disorders
- 1.12.5 Intestinal disorders
- 1.12.6 Acute abdomen
- 1.12.7 Hepatobiliary disorders
- 1.12.8 Rectal and anal canal Disorders
- 1.12.9 Gastrointestinal emergencies
- 1.12.10 Emerging diseases
- 1.12.11 Nursing care of a patient with disorders of the gastrointestinal tract and accessory organs
- 1.13 Medical-surgical Management of patients with respiratory disorders
 - 1.13.1 Special investigations and procedures
 - 1.13.2 Upper respiratory tract disorders
 - 1.13.3 Lower respiratory tract disorders
 - 1.13.3.1 Asthma
 - 1.13.3.2 Bronchitis
 - 1.13.3.3 Bronchiectasis
 - 1.13.3.4 Pneumonia
 - 1.13.3.5 Pulmonary Tuberculosis
 - 1.13.4 Pulmonary Embolism
 - 1.13.5 Chest injuries
 - 1.13.6 Atelectasis
 - 1.13.7 Pleural Effusion
 - 1.13.8 Empyema
 - 1.13.9 Lung Abscess
 - 1.13.10 Cancer of the Lungs
 - 1.13.11 Respiratory emergencies
 - 1.13.12 Emerging diseases
 - 1.13.13 Nursing care of patients with respiratory disorders
- 1.14 Medical-surgical Management of Cardiovascular System Disorders
 - 1.14.1 Special investigations and procedures
 - 1.14.2 Haematological disorders

- 1.14.2.1 Anaemias
- 1.14.2.2 Haemorrhagic disorders
- 1.14.2.3 White blood cell disorders
- 1.14.3 Heart Disorders
 - 1.14.3.1 Rheumatic Heart Disease
 - 1.14.3.2 Pulmonary Heart disease
 - 1.14.3.3 Inflammatory Heart Disease
 - 1.14.3.4 Cardiac failure
 - 1.14.3.5 Cardiomyopathies
 - 1.14.3.6 Coronary Artery Diseases
- 1.14.4 Hypertensive diseases
- 1.14.5 Peripheral Vascular Diseases
- 1.14.6 Disorders of the spleen
- 1.14.7 Cardiovascular emergencies
- 1.14.8 Emerging diseases
- 1.14.9 Nursing care of patients with cardiovascular disorders
- 1.15 Medical-surgical management of patients with Urogenital disorders
 - 1.15.1 Special investigations and procedures
 - 1.15.2 Urinary disorders
 - 1.15.2.1 Inflammatory urinary conditions
 - 1.15.2.2 Nephrotic syndrome
 - 1.15.2.3 Renal failure
 - 1.15.2.4 Renal tumours
 - 1.15.2.5 Kidney trauma
 - 1.15.2.6 Renal calculi
 - 1.15.2.7 Pyelonephrosis
 - 1.15.2.8 Bladder disorders
 - 1.15.2.9 Benign Prostatic Hypertrophy
 - 1.15.2.10 Prostate cancer
 - 1.15.2.11 Urethral Disorders
 - 1.15.2.12 Hydronephrosis

- 1.15.2.13 Hydrocele
 - 1.15.2.14 Epididymo-orchitis
 - 1.15.2.15 Varicocele
 - 1.15.2.16 Urogenital emergencies
 - 1.15.2.17 Emerging diseases
 - 1.15.2.18 Nursing care of patients with urogenital disorders
- 1.16 Medical-surgical Management of Neurological Disorders
- 1.16.1 Special investigations and procedures
 - 1.16.2 Migraines
 - 1.16.3 Cerebral vascular Accident (CVA)
 - 1.16.4 Head injury
 - 1.16.5 Spinal Injuries
 - 1.16.6 Spinal tumours
 - 1.16.7 Brain tumours
 - 1.16.8 Intracranial infections
 - 1.16.8.1 Meningitis
 - 1.16.8.2 Brain Abscesses
 - 1.16.9 Multiple sclerosis
 - 1.16.10 Epilepsy
 - 1.16.11 Bell's palsy
 - 1.16.12 Peripheral Neuropathies
 - 1.16.13 Guillain Barre Syndrome
 - 1.16.14 Myasthenia Gravis
 - 1.16.15 Parkinson's Disease
 - 1.16.16 Neurological emergencies
 - 1.16.17 Nursing care of Patients with Neurological disorders
- 1.17 Medical-surgical management of Endocrine Disorders
- 1.17.1 Special investigations and procedures
 - 1.17.2 Metabolic disorders
 - 1.17.3 Pancreatic disorders
 - 1.17.4 Pituitary disorders

- 1.17.5 Thyroid disorders
- 1.17.6 Adrenal disorders
- 1.17.7 Endocrine emergencies
- 1.17.8 Nursing care of patients with endocrine disorders
- 1.18 Medical-surgical management of Muscular disorders

2.0 Adult Medical – Surgical Nursing II

Course Status: Full

Notional Hours: 250

- 1.1 Operating theatre Nursing
 - 1.1.1 Principles of The Operating Theatre Environment
 - 1.1.2 Pre-Operative Phase
 - 1.1.2.1 Duties and responsibilities of theatre personnel
 - 1.1.2.2 Principles of Asepsis.
 - 1.1.2.3 Preparation of the operating theatre for surgery.
 - 1.1.2.4 Patient Consideration
 - 1.1.2.5 Receiving bay demonstration
 - 1.1.3 Anaesthesia
 - 1.1.4 Intra-Operative Phase
 - 1.1.4.1 Scrubbing, gowning and gloving procedures
 - 1.1.4.2 Swab, Needle and Instrument Count Policy
 - 1.1.4.3 Dirty Case Routine
 - 1.1.4.4 Preparation of Operation area and Draping
 - 1.1.4.5 Surgical incisions/ wound closure
 - 1.1.4.6 Demonstration of scrubbing, gowning, gloving, draping, swab and needle count
 - 1.1.5 Common surgical procedures
 - 1.1.6 Postoperative phase
 - 1.1.7 Caring of a patient in Day Surgery Setting
- 1.2 Nursing management of patients with Eye, Ear, Nose, and Throat (EENT) Disorders
 - 1.2.1 Ophthalmology

- 1.2.1.1 Introduction
- 1.2.1.2 Special procedures and investigations
- 1.2.1.3 Common ophthalmic conditions
 - a) Inflammatory
 - b) Non-inflammatory
- 1.2.1.4 Ophthalmic conditions associated with HIV/AIDS
- 1.2.1.5 Blindness
- 1.2.1.6 National eye programmes
- 1.2.1.7 Nursing care of a patient undergoing eye surgery
- 1.2.2 Ear conditions
 - 1.2.2.1 Introduction
 - 1.2.2.2 Special procedures and investigations
 - 1.2.2.3 Foreign bodies
 - 1.2.2.4 Disorders of the external ear
 - 1.2.2.5 Disorders of the middle ear
 - 1.2.2.6 Disorders of the inner ear
 - 1.2.2.7 Ophthalmic, Ear, Nose and Throat (ENT), Dental emergencies
 - 1.2.2.8 Nursing care of a patient undergoing ear surgery
- 1.2.3 Nose conditions
 - 1.2.3.1 Introduction
 - 1.2.3.2 Special procedures and investigations
 - 1.2.3.3 Foreign bodies
 - 1.2.3.4 Common conditions of the nose
 - 1.2.3.5 Nursing care of a patient undergoing surgery of the nose
- 1.2.4 Throat
 - 1.2.4.1 Introduction
 - 1.2.4.2 Special procedures and investigations
 - 1.2.4.3 Foreign bodies
 - 1.2.4.4 Common conditions of the throat
 - 1.2.4.5 Nursing care of a patient with a tracheostomy
- 1.2.5 National ear, nose and throat programmes

- 1.3 Syndromic management of Sexually Transmitted Infections (STIs)
- 1.4 Dermatological conditions
 - 1.4.1 Introduction
 - 1.4.2 Special procedures and investigations
 - 1.4.3 Inflammatory and allergic conditions of the skin
 - 1.4.4 Management of patients with common dermatological conditions
 - 1.4.4.1 Bacterial
 - 1.4.4.2 Viral
 - 1.4.4.3 Fungal
 - 1.4.4.4 Parasitic
 - 1.4.4.5 Pigmentary
 - 1.4.4.6 Tumours of the skin
 - 1.4.5 Dermatological conditions associated with HIV/AIDS
 - 1.4.6 Nursing care of a patient with dermatological conditions
- 1.5 Orthopaedics
 - 1.5.1 Introduction
 - 1.5.2 Special investigations and procedures
 - 1.5.3 Orthopaedic devices and orthotics
 - 1.5.4 Management of common orthopaedic conditions
 - 1.5.4.1 Traumatic
 - 1.5.4.2 Non-traumatic
 - 1.5.5 Rehabilitation
 - 1.5.6 Nursing care of patients with orthopaedic conditions

3.0 Pharmacology

Course Status: Full

Notional Hours: 200

- 3.1 Introduction and general principles of pharmacology
- 3.2 Legal, ethical and cultural aspects of pharmacology
- 3.3 Ordering and control of drugs
- 3.4 Analgesics

- 3.5 Anti-inflammatory drugs
- 3.6 Anti-infectives
 - 3.6.1 Antibiotics
 - 3.6.2 Antifungals
 - 3.6.3 Antivirals
 - 3.6.4 Anti-helminthics
- 3.7 Drugs acting on the gastrointestinal tract system
- 3.8 Drugs acting on the respiratory system
- 3.9 Drugs acting on the cardiovascular system
- 3.10 Drugs acting on the nervous system
- 3.11 Drugs acting on the endocrine system
- 3.12 Drugs acting on the integumentary system
- 3.13 Drugs acting on the immune system
- 3.14 Drugs used in the reproductive system
- 3.15 Drugs used in eye, ear, nose and throat conditions
- 3.16 Drugs used in treatment of malignant neoplasms

4.0 Public Health Nursing

Course Status: Full

Notional Hours: 220

- 4.1 Introduction to Public Health Nursing (PHN)
- 4.2 Primary Healthcare (PHC)
- 4.3 Community Health
 - 4.3.1 Community
 - 4.3.2 Food safety and environmental health
 - 4.3.3 Prevention and control of parasites and pests
 - 4.3.4 Water and sanitation
 - 4.3.5 Community partnerships for health
 - 4.3.6 Selection, training, support and supervision of community-based organizations
 - 4.3.7 Health promotion and education
 - 4.3.8 The external environment

- 4.4 School Health services
- 4.5 Management of community health services
- 4.6 Epidemiology and disease surveillance
- 4.7 Global health
- 4.8 Occupational health and safety

5.0 Research Methods, Epidemiology and Biostatistics

Course Status: Full

Notional Hours: 200

5.1 Research

- 5.1.1 Overview of research
- 5.1.2 Introduction and background
- 5.1.3 Literature review
- 5.1.4 Ethical and legal issues in research
- 5.1.5 Quantitative research design
- 5.1.6 Qualitative research design
- 5.1.7 Report writing
- 5.1.8 Evidence based practice

5.2 Epidemiology

- 5.2.1 Basic concepts and Introduction to epidemiology
- 5.2.2 Epidemiological data sources and measurements
- 5.2.3 Epidemiological surveillance and outbreak investigation
- 5.2.4 The study of causation in epidemiologic investigation and research
- 5.2.5 Common research designs used in epidemiology
- 5.2.6 Assessment of risk and benefit in epidemiologic studies
- 5.2.7 Disease determinants

5.3 Biostatistics

- 5.3.1 Introduction to statistics
- 5.3.2 Descriptive statistics
- 5.3.3 Measurement of central tendency
- 5.3.4 Basic statistics computing using Statistical Packages for Social Sciences

- 5.3.5 Data analysis
- 5.3.6 Measures of dispersion
- 5.3.7 Basic probability theories
- 5.3.8 Introduction to statistical inference
- 5.3.9 Hypothesis testing
- 5.3.10 Correlation
- 5.3.11 Linear analysis

BRIDGING COURSES (IN-SERVICE: DIPLOMA NURSES)

Anatomy and Physiological Sciences

Course Status: Full

Notional Hours: 200

Anatomy

- 1.1 General Principles of Anatomy
- 1.2 Systemic Anatomy

Physiology

- 1.3 General Principles of Physiology
- 1.4 Systemic Physiology

Biochemistry

- 1.5 General Principles
- 1.6 Metabolism

Laboratory Sessions

2.0 Adult Medical – Surgical Nursing

Course Status: Full

Notional Hours: 380

- 2.1 Principles of Medical – surgical nursing
- 2.2 Health Assessment and Clinical Reasoning
- 2.3 Nursing theories and models
- 2.4 Management of a patient undergoing surgery
- 2.5 Principles of critical care nursing
- 2.6 Principles of emergency and trauma nursing
- 2.7 Management of patients with Inflammation, Trauma, Burns and Wounds
- 2.8 Oncology
 - 2.8.1 Classification and characteristics

- 2.8.2 Nursing management of patients undergoing
 - 2.8.2.1 Chemotherapy
 - 2.8.2.2 Radiotherapy
 - 2.8.2.3 Surgery
 - 2.8.2.4 Nuclear medicine
- 2.9 Palliative care
 - 2.9.1 Introduction
 - 2.9.2 Palliative care policies and regulation
 - 2.9.3 Approaches to assessment in palliative care
 - 2.9.4 Pain and symptom management
 - 2.9.5 Psychosocial and spiritual care
 - 2.9.6 Bereavement care
 - 2.9.7 Ethical considerations
 - 2.9.8 Management of common symptoms in life-limiting illnesses
- 2.10 Management of HIV/AIDS, Antiretroviral Therapy and Opportunistic Infections
- 2.11 Medical-surgical Management of patients with disorders of the Gastrointestinal Disorders and Accessory Organs
 - 2.11.1 Special investigations and procedures
 - 2.11.2 Carcinoma of the gastrointestinal tract
 - 2.11.3 Oral and oesophageal disorders
 - 2.11.4 Stomach and duodenal disorders
 - 2.11.5 Intestinal disorders
 - 2.11.6 Acute abdomen
 - 2.11.7 Hepatobiliary disorders
 - 2.11.8 Rectal and anal canal Disorders
 - 2.11.9 Emerging diseases
 - 2.11.10 Nursing care of a patient with disorders of the gastrointestinal tract and accessory organs
- 2.12 Medical-surgical Management of patients with respiratory disorders
 - 2.12.1 Special investigations and procedures
 - 2.12.2 Upper respiratory tract disorders

- 2.12.3 Lower respiratory tract disorders
 - 2.12.3.1 Asthma
 - 2.12.3.2 Bronchitis
 - 2.12.3.3 Bronchiectasis
 - 2.12.3.4 Pneumonia
 - 2.12.3.5 Pulmonary Tuberculosis
- 2.12.4 Pulmonary Embolism
- 2.12.5 Chest injuries
- 2.12.6 Atelectasis
- 2.12.7 Pleural Effusion
- 2.12.8 Empyema
- 2.12.9 Lung Abscess
- 2.12.10 Cancer of the Lungs
- 2.12.11 Emerging diseases
- 2.12.12 Nursing care of patients with respiratory disorders
- 2.13 Medical-surgical Management of Cardiovascular System Disorders
 - 2.13.1 Special investigations and procedures
 - 2.13.2 Haematological disorders
 - 2.13.2.1 Anaemias
 - 2.13.2.2 Haemorrhagic disorders
 - 2.13.2.3 White blood cell disorders
 - 2.13.3 Heart Disorders
 - 2.13.3.1 Rheumatic Heart Disease
 - 2.13.3.2 Pulmonary Heart disease
 - 2.13.3.3 Inflammatory Heart Disease
 - 2.13.3.4 Cardiac failure
 - 2.13.3.5 Cardiomyopathies
 - 2.13.3.6 Coronary Artery Diseases
 - 2.13.4 Hypertensive diseases
 - 2.13.5 Peripheral Vascular Diseases
 - 2.13.6 Disorders of the spleen

- 2.13.7 Emerging diseases
- 2.13.8 Nursing care of patients with cardiovascular disorders
- 2.14 Medical-surgical management of patients with Urogenital disorders
 - 2.14.1 Special investigations and procedures
 - 2.14.2 Urinary disorders
 - 2.14.2.1 Inflammatory urinary conditions
 - 2.14.2.2 Nephrotic syndrome
 - 2.14.2.3 Renal failure
 - 2.14.2.4 Renal tumours
 - 2.14.2.5 Kidney trauma
 - 2.14.2.6 Renal calculi
 - 2.14.2.7 Pyelonephrosis
 - 2.14.2.8 Bladder conditions
 - 2.14.2.9 Benign Prostatic Hypertrophy
 - 2.14.2.10 Prostate cancer
 - 2.14.2.11 Urethral Disorders
 - 2.14.2.12 Hydronephrosis
 - 2.14.2.13 Hydrocele
 - 2.14.2.14 Epididymo-orchitis
 - 2.14.2.15 Varicocele
 - 2.14.2.16 Emerging diseases
 - 2.14.2.17 Nursing care of patients with urogenital disorders
- 2.15 Medical-surgical Management of Neurological Disorders
 - 2.15.1 Special investigations and procedures
 - 2.15.2 Migraines
 - 2.15.3 Cerebral Vascular Accident (CVA)
 - 2.15.4 Head injury
 - 2.15.5 Spinal Injuries
 - 2.15.6 Spinal tumours
 - 2.15.7 Brain tumours
 - 2.15.8 Intracranial infections

- 2.15.9 Meningitis
- 2.15.10 Brain Abscesses
- 2.15.11 Multiple sclerosis
- 2.15.12 Epilepsy
- 2.15.13 Bell's palsy
- 2.15.14 Peripheral Neuropathies
- 2.15.15 Guillain Barre Syndrome
- 2.15.16 Nursing care of Patients with Neurological disorders
- 2.16 Medical-surgical management of Endocrine Disorders
 - 2.16.1 Special investigations and procedures
 - 2.16.2 Metabolic disorders
 - 2.16.3 Pancreatic disorders
 - 2.16.4 Pituitary disorders
 - 2.16.5 Thyroid disorders
 - 2.16.6 Adrenal disorders
 - 2.16.7 Emerging diseases
 - 2.16.8 Nursing care of patients with endocrine disorders
- 2.17 Principles of operating theatre nursing
- 2.18 Nursing management of ophthalmic conditions
- 2.19 Nursing management of Ear, Nose, and Throat (ENT) conditions
- 2.20 Nursing management of Syndromic management of Sexually Transmitted Infections (STIs)
- 2.21 Nursing management of dermatological conditions

3.0 Public and Community Health Nursing

Course Status: Half

Notional Hours: 130

- 3.1 Overview of Public and Community Health Nursing
- 3.2 Primary Health Care (PHC)
- 3.3 Management of Community Health Services

- 3.3.1 Water and sanitation
- 3.3.2 Food safety
- 3.3.3 Environmental health
- 3.3.4 School health
- 3.3.5 Health promotion and education
- 3.3.6 External environment
- 3.4 Epidemiology and disease surveillance
- 3.5 Occupational health and safety
- 3.6 Global health

Clinical Practice

1. Clinical drills
2. Laboratory sessions
3. General ward allocation:
 - a) Adult medical wards
 - b) Adult surgical wards
4. Outpatient department
5. Antiretral viral therapy (ART) clinic
6. STI clinic
7. Tuberculosis (TB) clinic
8. Renal unit
9. Community based education (urban/rural experience)

YEAR FOUR COURSES

1.0 Paediatrics and Paediatric Nursing

Course Status: Full

Notional Hours: 200

- 1.1 Introduction to paediatrics and paediatric nursing
- 1.2 Special investigations and procedures
- 1.3 The well child
- 1.4 Expanded Programme in Immunization (EPI)
- 1.5 Deviation from normal growth and development
- 1.6 Management of the sick child
 - 1.6.1 Integrated Management of Neonatal and Childhood Illnesses (IMNCI)
- 1.7 Paediatric emergencies
- 1.8 Common medical and surgical conditions
- 1.9 Common paediatric malignancies
- 1.10 Children with special needs

2.0 Reproductive Health

Course Status: Half

Notional Hours: 120

- 2.1 Introduction to reproductive health
- 2.2 Special investigations and procedures
- 2.3 Human reproduction
- 2.4 Nursing care of clients during pregnancy
- 2.5 Nursing care of clients during labour and delivery
- 2.6 Essential newborn care
- 2.7 Nursing care of clients during postnatal period
- 2.8 Conditions during pregnancy, labour, delivery and puerperium
- 2.9 Gynaecological conditions
- 2.10 Family planning
- 2.11 Gender and Health

2.12 Perimenopause

3.0 Nursing Education

Course Status: Full

Notional Hours: 250

- 3.1 Trends and Philosophy in Nursing Education
- 3.2 Theories of Learning
- 3.3 Educational objectives
- 3.4 Curriculum development, design and review
- 3.5 Instructional design and programming
- 3.6 Teaching/learning methods and learning aids
- 3.7 Learning and the classroom environment
- 3.8 Clinical teaching and learning
 - 3.8.1 Ethical issues
 - 3.8.2 Planning for students ward placement
 - 3.8.3 Supervising students in the clinical area
 - 3.8.4 Clinical teaching and learning methods
 - 3.8.5 Clinical assessments
 - 3.8.6 Preceptorship
- 3.9 Mentoring and supervising student projects and research
- 3.10 Measurement and evaluation of learning and teaching
- 3.11 Micro and peer teaching
- 3.12 Managing nurse education and training programmes
- 3.13 Guidance, support and counselling in nursing education

4.0 Leadership, Management and Governance

Course Status: Full

Notional Hours: 200

- 4.1 Introduction to leadership, management, and governance
- 4.2 Management functions
- 4.3 Leadership

- 4.4 Policy development and analysis
- 4.5 Resource management
 - 4.5.1 Human capital Development
 - 4.5.2 Financial and material resource management
 - 4.5.3 Supply chain management and logistics cycle
 - 4.5.4 Time management
 - 4.5.5 Health economics
 - 4.5.6 Performance management
 - 4.5.7 Discipline
- 4.6 Quality Assurance and Quality Improvement
- 4.7 Advocacy
- 4.8 Industrial relations
- 4.9 Information management systems
- 4.10 Project management
- 4.11 Change management
- 4.12 Entrepreneurship
 - 4.12.1 Partnerships and networking
 - 4.12.2 Continuous Professional Development (CPD)
 - 4.12.3 Licensing and Accreditation of facilities
- 4.13 Principles of Corporate governance
- 4.14 Public administration
 - 4.14.1 Principles of public administration
 - 4.14.2 Types of public administration
 - 4.14.3 The rise of regulatory governance
 - 4.14.4 Scope of administration action

5.0 Mental Health and Psychiatric Nursing

Course Status: Half

Notional Hours: 110

- 5.1 Introduction to mental health and psychiatric nursing
- 5.2 Legal and ethical context of Mental Health and Psychiatric Nursing

- 5.3 Conceptual models of psychiatric care
- 5.4 Assessment and admission of psychiatric clients
- 5.5 Classification and management of psychiatric disorders
 - 5.5.1 Neurosis
 - 5.5.2 Psychosis
- 5.6 Suicide and suicidal behaviour
- 5.7 Psychotherapeutic management
- 5.8 Paediatric mental health
- 5.9 Management of a client with psychiatric emergency
- 5.10 Forensic psychiatry
- 5.11 Community psychiatry
- 5.12 Advocacy in psychiatry

6.0 Research Project

Course Status: Half

Notional Hours: 100

- 5.1 Research proposal
- 5.2 Report writing

Adult Medical-Surgical Nursing Practicum

Course Status: Full

Notional Hours: 220

- 7.1 Nursing Assessment and Diagnostics
 - 7.1.1 Health history
 - 7.1.2 Physical examination
 - 7.1.3 Diagnostic tests and procedures
 - 7.1.4 Interpretation of diagnostic tests
- 7.2 Nursing Interventions and Skills
 - 7.2.1 Patient education and health promotion
 - 7.2.2 Patient counselling

- 7.2.3 Nursing process and nursing care plan application
- 7.2.4 Care in high dependent units
- 7.2.5 Care in low dependent units
- 7.3 Collaborative care
- 7.4 Safety protocols
 - 7.4.1 Infection prevention and control measures
 - 7.4.2 Patient safety procedures
 - 7.4.3 Informed consent
- 7.5 Clinical Decision Making
 - 7.5.1 Nursing rounds
 - 7.5.2 Interdisciplinary rounds and discussions
 - 7.5.3 Clinical meetings
 - 7.5.4 Patient handover
- 7.6 Documentation and Record Keeping
 - 7.6.1 Practicing accurate and timely documentation
 - 7.6.2 Using electronic health records (EHR) systems appropriately

Clinical Practice

1. Clinical drills
2. Clinical allocation to:
 - a) Adult medical wards
 - b) Adult surgical wards
 - c) Operating theatres
 - d) Paediatric wards
 - e) ICU/PICU/NICU
 - f) Obstetrics and gynaecology wards
 - g) EENT wards
 - h) Skin clinic
 - i) Level I hospitals

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LIST OF CONTRIBUTORS FOR DEVELOPMENT OF MIDWIFERY SYLLABUS

NO.	NAME	QUALIFICATION	DESIGNATION	INSTITUTION
1	Dr Marjorie Kabinga Makukula	PhD. MSc Nursing, Pg Dip MEd, BSc. Nursing, RN	Assistant Dean – postgraduate studies	University of Zambia School of Nursing Sciences
2	Dr. Ruth Wahila	PhD. MSc. Nursing, BSc Nursing ,ROTN, RN	Lecturer	University of Zambia School of Nursing Sciences
3	Dr. Maureen Masumo	PhD. MSc. Midwifery, BSc. Nursing, RM, RN	Lecturer	University of Zambia School of Nursing Sciences
4	Beauty Siansende Zimba	BSc Nursing, RM, RN	Registrar & CEO	Nursing and Midwifery Council of Zambia
5	Judith K Chipili	LLB, MPH, BSc Nursing, RN, Certificate M&E	Acting Director of Education and Training	Nursing and Midwifery Council of Zambia
6	Brenda Nambala Sianchapa	Ph.D. fellow, MSc Midwifery, BSc Nursing, RM, RN	Lecturer	University of Zambia School of Nursing Sciences
7	Harriet Mulonda Simaubi	PhD Fellow, MSc N, BSc Nursing, RM, RN	Lecturer	Mulungushi University
8	Alvera Mwiinga	MPH, BSc Nursing, RM, RN	Lecturer	Cavendish University
9	Chiyengo Mundanya	MPH, BSc Nursing, OTN, RN	Chief Nursing Officer Education and Training	Ministry of Health
10	Amukusana Mutandi			Zambia Union of Nurses Organisation
11	Kennedy Mwila	MSc MW, BSc Nursing, RM, RN	Lecturer	Lusaka Apex Medical University

NO.	NAME	QUALIFICATION	DESIGNATION	INSTITUTION
12	Abigail Kalemba – Hatontola	MSc. Health care Management, BSc Nursing, RM, RN	Lecturer	University of Lusaka School of Medicine and Health Sciences
13	Wanda Hankombo Mulunda	MSc MWH, BSc (Hon) PHS, RM, RN	Lecturer	Eden University
14	Manasseh Mvula	MSc. Nursing, BSc. Nursing	Lecturer	University of Zambia School of Nursing Sciences
15	Ivy Mulenga Mwale	BSc. Nursing, RN	Curriculum Development Officer	Nursing and Midwifery Council of Zambia.