

Bachelor of Science (Honours) Degree in Midwifery Course Synopsis

YEAR 1- PART 1: SEMESTER 1

PLC 1101: Peace, Leadership and Conflict transformation I

Concepts of Peace and Conflict; theories of conflict; causes and costs of conflict; organizational conflicts; science, technology and conflict interface; gender dimension to conflict; conflict analysis and tools; impact of conflict on development.

MWB 1201: Anatomy of the Female and Male Reproductive Systems

Review of the human reproductive anatomy- female and male reproductive organs, the female pelvis, foetal skull, endocrine glands; structure and function of the male and female reproductive organs.

MWB 1102: Physiology of the Reproductive Systems

Human body physiology; cell theory and physiological functions; basic physiological concepts related to reproduction (follicular development, ovulation, menstrual cycle, fertilisation, hormonal regulation, lactation); the physiological control mechanisms, physiology of pregnancy, labour, puerperium and lactation; physiology of pain in labour; newborn physiological adaptation to extra-uterine life; thermal regulation in the newborn; respiratory physiology.

MWB 1103: Embryology

The human cell and genetic material; chromosomes; changes in chromosomes; genes and DNA; spermatogenesis; mitosis and meiosis; sexual development and activity; fertilisation and implantation; placental development; embryonic development in relation to the stages of pregnancy; foetal development, causes of foetal abnormalities; care in the preconception period; role of the midwife

MWB 1104: Applied Biochemistry

Basic concepts in biochemistry; water transport processes; the enzymes nutrients; metabolism of carbohydrates; deoxyribonucleic acids and protein synthesis; metabolism of proteins and amino acids; metabolism of lipids, drug metabolism and toxicology, clinical

biochemistry, application of biochemistry to pregnancy, labour and childbirth, in the puerperium, and the postpartum stages.

MWB 1105: Applied Biophysics

Measurement; motion, machines work and power; liquid properties; gas properties; the circulatory system; biological processes; temperature and heat energy; heat transfer; electric circuits; elasticity and wave motion, mechanism of hearing; sight, nuclear radiation.

MWB 1106: Microbiology and Parasitology

Basic microbial concepts; public health microbiology; immunology and immunity; bacterial infections; virology; parasitology; mycology; infection control and prevention measures; microscopy; role of the midwife.

PART 1: SEMESTER 2

PLC 1201: Peace, Leadership and Conflict transformation II

Leadership; leadership and conflict transformation skills; classification of leaders; leadership and professional ethics; nexus between leadership and conflict; interplay amongst leadership; conflict and development.

MWB 1201: Psychology in Reproductive Health

Overview of psychology and related sciences; psychological theories; behaviour; motivation; learning; cognition and perception; memory; personality; the psychological contexts influencing behaviour; the concepts of mental wellbeing and disorder; theories of counselling; psychological measurements; psychological issues in reproductive health; multi-professional-psychological interventions in reproductive health.

MWB 1202: Sociology for Reproductive Health

Overview of sociology and related sciences; sociological theories; socialisation; social stratification and mobility; society, families and their role in reproductive health; socio-cultural issues in reproductive health; populations; group dynamics; gender and sexuality; social exclusion and poverty; domestic and sexual violence; sociological effects of health and illness; social support systems in reproductive health; reproductive health issues in deviant behaviour; immigration and displaced persons; role of the midwife.

MWB 1203: Philosophical Basis of Midwifery

Overview of philosophy; philosophy of nursing and midwifery; values and goals of midwifery care; nature of midwifery knowledge; concepts of health and care; ethical theories ethics and moral dilemmas; legal and professional perspectives within midwifery; respectful maternity care; professional judgement and accountability,

MWB 1204: Professional Issues in Midwifery

History of midwifery; the global context of midwifery care; global and national maternal, newborn and neonatal morbidity and mortality issues; the business of midwifery; global issues relating to strengthening midwifery practice; education and regulation; midwifery associations; regulation and licensure; perspectives and challenges for professional midwifery practice, reflective practice; clinical audits.

MWB 1205: Theories in Midwifery Practice and Models of Midwifery Care

Midwifery as an art and a science; paradigm and worldview; concept of a theory, model; nursing/midwifery central concepts (midwifery, health, man, environment); nursing/midwifery theories, categories of theories, theories relevant to midwifery practice, theories and midwifery practice, models of midwifery care.

MWB: 1206: Research I

Introduction to scientific method; research and related concepts; nature of inquiry in midwifery; research versus other bases of knowledge and practice; critical thinking; ways of knowing; knowledge types; conceptual models and theoretical models; research paradigms; information retrieval; ethical issues in research.

-

YEAR 2:**PART II: SEMESTER 1****MWB 2101: Normal and Abnormal Pregnancy**

Pre-pregnancy care and normal pregnancy care; family planning, assessment of foetal well being; antenatal health education; obstetric complications in pregnancy, medical conditions in pregnancy; birth preparedness and the referral system.

MWB 2102: Normal and Abnormal Labour

Management of 1st, 2nd and 3rd stages of labour; the partograph; nutrition; mechanism of labour; induction and acceleration of labour; maternal positions; pain management; medical and surgical complications; obstetric emergencies; active management of the 3rd stage of labour; instrumental and operative deliveries, intrapartum complications- prolonged/obstructed labour, shoulder dystocia, haemorrhage, inversion of the uterus, retained placenta.

MWB 2103: Normal and Abnormal Postpartum

Management of maternal health during the postpartum period; family planning; health education and health promotion; adaptation to motherhood; infant feeding and counselling; post partum haemorrhage; post partum mental health disorders; puerperal infections; medical conditions; discharge plan.

MWB 2104: Normal Newborn and Neonate

Newborn care; apgar score; helping babies breathe concept; parent-infant bonding; infant feeding; assessment of the newborn, immunization, health education and counselling on parenthood, discharge and follow up plan.

MWB 2105: Abnormal Newborn and Neonate

Management of birth asphyxia, prematurity, post-maturity, small for gestational age; hypothermia; hypoglycaemia; neonatal infections; hyperbilirubinaemia; congenital abnormalities; HIV exposed infant; parent counselling on infant illness or condition.

MWB 2106: Health Assessment

Concept of health assessment, knowledge and skills generic to performing health assessment on healthy non-pregnant and pregnant women, newborns postnatal women and children, common laboratory tests for women in their reproductive years; nursing/midwifery

diagnosis and reasoning; health education; screening for cervical and breast cancer; documentation and record keeping.

PART II: SEMESTER 2

MWB 2201: Abortion Care Needs for Women

Policies, protocols, laws and regulations relating to abortion-care and services; religion and abortion; medical eligibility for abortion; post abortion care; family planning; physical and psychological abortion care services.

MWB 2202: Pharmacology for Midwives

Advanced principles of pharmacology; review of basic pharmacology principles; indications; doses; routes of administration, and side effects of common drugs used for common complications of childbearing; toxicology and teratogenic drugs; non-prescription and recreational drugs; legal and policy regulation on drug prescribing in pregnancy, labour, childbirth and the puerperium; life-saving drugs.

MWB 2203: Biostatistics and Epidemiology

Biostatistics for health; usefulness of biostatistics; classification of data; presentation of data; measures of central tendency; measures of variability/dispersion; the normal distribution, measures of position, symmetry and skewness; sampling, theory of probability, statistical inferences; chi-square contingency methods; hypothesis testing; regression analysis and correlation; ANOVA. Basic concepts in epidemiology; epidemiology in midwifery; uses of epidemiology; basic measurements and methods of study used in epidemiology; disease/events surveillance.

MWB 2204: Sexual and Reproductive Health Issues

Reproductive health; preconception care; family planning; adolescent sexual and reproductive health and rights; gender issues; sexual abuse; rape; sexually transmitted infections (STI); human immuno-deficiency virus (HIV and AIDS; infertility, menopause; cancer of the female reproductive system.

MWB 2205: Research II

Research process; identifying a research problem; choosing a research topic; formulating a research problem, objectives, questions and hypothesis; literature review; research methodology; data management and analysis; documentation and dissemination; guidelines for writing a research proposal; guidelines for research project presentation; referencing; formatting project.

-

YEAR 3

PART III: SEMESTER 1

MWB 3101: Community Midwifery

Vital statistics (maternal , neonatal, infant and child morbidity and mortality); concept of community midwifery, public health and epidemiology; right-based approach; advocacy for safe motherhood and women's empowerment; the three delays; health promotion; maternal audits; primary health care framework/model of care; midwifery care in community settings; vulnerable populations, individual, family and community support systems including agencies that provide maternal-child; health and illness services; cultural traditions surrounding pregnancy and child birth; role of the midwife in community midwifery.

MWB 3102: Mental Health Issues in Midwifery Practice

Global and national perspectives on mental health; the primary health care model, mental health issues in pregnancy; labour and post delivery; common mental health conditions; support in stressful situations (unplanned pregnancy, sexual abuse, rape, para-suicide, marriage discord, general illness); adjustments post delivery.

MWB 3103: Child Health and Immunisation

Epidemiology of neonatal and child mortality; essential newborn and child care; growth monitoring; child nutrition and immunisations; common childhood illnesses and treatment protocols; the HIV exposed child, congenital illnesses; family support systems; the rights of the child; child adoption and fostering.

MWB 3104: Approaches to Midwifery Education

Global, regional and national perspectives on midwifery education; **history** of midwifery education; midwifery education developments in higher and tertiary education; principles of teaching/ learning, principles of adult education; clinical teaching and learning; teaching strategies; educational technology; basic curriculum concepts; assessment and evaluation of teaching and learning.

MWB 3105: Leadership and Management in Midwifery

The concept of leadership and management; leadership theories and styles; management principles; communication; conflict and conflict resolution; managing change; power, authority and politics; delegation and supervision; motivational issues in leadership; leadership roles in practice; policy and staff development; resource management; effective working environment; quality issues in midwifery practice; teams in health care, the role of the midwifery practitioner.

PART III: SEMESTER TWO

MWB 3201: Financing and marketing Health Services

Health financing concept, sources of health financing; key functions in health financing revenue collection; pooling of resources; purchasing of health services; model of health financing; marketing health services; health care as a business; social marketing; marketing strategies; role of the midwife in health financing and marketing.

MWB 3202: Health Policy Planning

Globalisation and health services; foundations of health policy; process and power; economic analysis of health policy; cost effective analysis in health; measuring health systems performance; communication and the change process; advocacy in midwifery practice.

MWB 3203: Research Project

The final year research project is a comprehensive, individual project on a topic concerning a clearly defined clinical problem in midwifery practice. The topic is chosen by the student and approved by the educational institution. The student combines knowledge from clinical education with a broad spectrum of the knowledge covered by the degree programme and found in the profession. The project helps the student develop the skills needed for continuing professional education and for the provision of evidence-based practice.

