FACULTY PROSPECTUS 2009

FACULTY OF MEDICAL AND HEALTHS CIENCES

UNIVERSITY OF NAMIBIA

NOTE

This Faculty Prospectus is valid for 2009 only. Regulations and curricula for 2009 may be amended. General regulations and information appear in the **General Information and Regulations Prospectus**.

Although the information contained in this Faculty Prospectus has been compiled as accurately as possible, Council and Senate accept no responsibility for any errors and omissions, which may occur. The University retains the right to amend any regulation or condition without prior notice.

The information is correct up to 31 October 2008.

The fact that particulars of a specific course or field of study have been included in this Faculty Prospectus, does not necessarily mean that such course or field of study will be offered in 2009 or any consecutive year.

This Faculty Prospectus must be read in conjunction with the **General Information and Regulations Prospectus**.

CONTENTS

NOTE II

CONTENTS III

FACULTY PREAMBLE X

NURSING SERVICE PLEDGE X

2009 ACADEMIC CALENDAR XI

DEADLINES FOR THE 2009 ACADEMIC YEAR XII

PERSONNEL 1

OFFICE-BEARERS AND ADMINISTRATIVE PERSONNEL 1
ACADEMIC PERSONNEL 1
UNIT: GENERAL NURSING SCIENCE *1*
UNIT: COMMUNITY HEALTH NURSING SCIENCE *1*
UNIT: CLINICAL NURSING EDUCATION: NATIONAL AND INTERNATIONAL *2*
UNIT: MIDWIFERY SCIENCE *2*
UNIT: MENTAL HEALTH *2*
UNIT: SCIENTIFIC FOUNDATIONS OF NURSING *2*
UNIT: NURSING ETHOS AND PROFESSIONAL PRACTICE, NURSING EDUCATION AND HEALTH SERVICE MANAGEMENT *2*
UNIT: RADIOGRAPHY *2*
UNIT: ANAESTHETICS *2*
UNIT: COMMUNITY HEALTH *2*
UNIT: GYNAECOLOGY AND OBSTETRICS *2*
UNIT: INTENSIVE CARE *2*
UNIT: MEDICINE *3*
UNIT: SURGERY *3*
UNIT: MENTAL HEALTH *3*
UNIT: RADIOLOGY *3*

REGULATIONS 4

COURSE OF STUDY 4

DEGREES 4
DIPLOMAS 4
CERTIFICATES 4

A. DIPLOMA IN COMPREHENSIVE NURSING AND MIDWIFERY SCIENCE 5

A.1 ADMISSION 5
A.2 DURATION OF STUDY 5
A.3 CURRICULUM COMPILATION 5
A4. COURSES CODES AND RESTRICTION 5
A.5 EXAMINATION REGULATIONS 7
A.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES 8
A.7 PRACTICALS 8

B. DIPLOMA IN MIDWIFERY SCIENCE 8

B.1 ADMISSION 8
B.2 DURATION OF STUDY 8
B.3 CURRICULUM COMPILATION 8
B.4 COURSE CODES AND RESTRICTIONS ON COURSES 8
B.5 EXAMINATION REGULATIONS 9
B.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES 9
B.7 PRACTICALS 9

C. NATIONAL DIPLOMA IN RADIOGRAPHY (DIAGNOSTIC) 9

C.1 ADMISSION 9
C.2 DURATION OF STUDY 9
C.3 CURRICULUM COMPILATION 9
C.4 COURSE CODES AND RESTRICTIONS ON COURSES 10
C.5 EXAMINATION REGULATIONS 10
C.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT 10
C.7 PRACTICALS 10

D. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (OPERATING ROOM) 11

D.1 ADMISSION 11

D.2 DURATION OF STUDY 11
D.3 CURRICULUM COMPILATION 11
D.4 COURSE CODES AND RESTRICTIONS ON COURSES 11
D.5 EXAMINATION REGULATIONS 11
D.6 RE-REGISTRATION AND ACADEMIC ADVANCMENT RULES 11
D.7 PRACTICALS 11

E. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (CRITICAL CARE) 12

E.1 ADMISSION 12
E.2 DURATION OF STUDY 12
E.3 CURRICULUM COMPILATION 12
E.4 COURSE CODES AND RESTRICTIONS ON COURSES 12
E.5 EXAMINATION REGULATIONS 12
E.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES 12
E.7 PRACTICALS 12

F. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (HEALTH PROMOTION, CLINICAL DIAGNOSIS AND TREATMENT) 14DHPA 12

F.1 ADMISSION 12
F.2 DURATION OF STUDY 12
F.3 CURRICULUM COMPILATION 13
F.4 COURSE CODES AND RESTRICTIONS ON COURSES 13
F.5 EXAMINATION REGULATIONS 13
F.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES 13
F.7 PRACTICALS 13

G. MASTER OF NURSING SCIENCE (MEDICAL- SURGICAL NURSING): M. N. SC. 13

G.1 ADMISSION 13
G.2 DURATION OF STUDY 13
G .3 CURRICULUM COMPILATION 14
G.4 EXAMINATION REGULATIONS 14

H. MASTER OF NURSING SCIENCE: M. N. SC. 14

H.1 ADMISSION 14
H.2 DURATION OF STUDY 14
H.3 CURRICULUM COMPILATION 14
H.4. EXAMINATION REGULATIONS 14

I. MASTERS IN PUBLIC HEALTH14NMPH 14

I.1 ADMISSION 14
I.2. DURATION OF STUDY 14
I.3 CURRICULUM COMPILATION 14
I.4 EXAMINATION REGULATIONS 14

J DOCTOR OF NURSING SCIENCE: D.N.SC.14DNSC 14

J.1 ADMISSION 14
J.2. DURATION OF STUDY 15
J.3 CURRICULUM COMPILATION 15
J.4 EXAMINATION REGULATIONS 15

K. CERTIFICATE IN NURSING ACCIDENT AND EMERGENCY NURSING 15

K.1 ADMISSION 15
K.2 DURATION OF STUDY 15
K.3 CURRICULUM COMPILATION 15
K.4 EXAMINATION REGULATIONS 15
K.5 REGISTRATION AND ADVANCEMENT RULE 15
K.6 PRACTICALS 15

L. CERTIFICATE IN NURSING SCIENCES (OPERATING ROOM) 15

L.1 ADMISSION 15
L.2 DURATION OF STUDY 16
L.3 CURRICULUM COMPILATION 16
L.4 EXAMINATION REGULATIONS 16
L.5 REGISTRATION AND ADVANCEMENT RULES 16
L.6 EVALUATION 16

M. CERTIFICATE IN NURSING ADVANCED NURSING SKILLS 16

M.1 ADMISSION 16
M.2 DURATION OF STUDY 16

M.3 CURRICULUM COMPILATION 16
M.4 EXAMINATION REGULATIONS 16
M.5 REGISTRATION AND ADVANCEMENT RULE 16
M.6 PRACTICALS 16

SYLLABI / COURSE DESCRIPTIONS 16

AA. UNIVERSITY DIPLOMA IN COMPREHENSIVE NURSING AND MIDWIFERY SCIENCE 17

AA.1 HEALTH CARE DYNAMICS 17
AA.2 CONTEMPORARY SOCIAL ISSUES 17
AA.3 COMPUTER LITERACY 17
AA.4 COMMUNICATION AND STUDY SKILLS IN ENGLISH 18
AA.5 ENGLISH FOR ACADEMIC PURPOSES 18
AA.6 ENGLISH COMMUNICATION AND STUDY SKILLS 18
AA.7 APPLIED BIOLOGICAL SCIENCES 19
APPLIED BIOLOGICAL SCIENCE III 20
AA.8 COMMUNITY HEALTH NURSING SCIENCE I 21
AA.9 NURSING ETHOS AND PROFESSIONAL PRACTICE ETHOS AND PROFESSIONAL PRACTICE (1A) (INTRODUCTION) 23
AA.10 GENERAL NURSING SCIENCE 24
GENERAL NURSING SCIENCE I 24
GENERAL NURSING SCIENCE II 25
GENERAL NURSING SCIENCE III 25
GENERAL NURSING SCIENCE IV 26
AA.11 MENTAL HEALTH 26
AA.12 MIDWIFERY SCIENCE 27
AA.13 SOCIOLOGY OF HEALTH 28

BB DIPLOMA IN MIDWIFERY SCIENCE 29

BB.1 COMMUNITY HEALTH NURSING SCIENCE 29
BB.2 GENERAL NURSING SCIENCE 29
BB.3 NURSING ETHOS AND PROFESSIONAL PRACTICE 29
BB.4 MIDWIFERY SCIENCE 29
BB. 5 PHYSIOLOGY 29
BB.6 SCIENTIFIC FOUNDATIONS OF NURSING 29

CC. NATIONAL DIPLOMA IN RADIOGRAPHY (DIAGNOSTIC) 30

CC.1 APPLIED BIOLOGICAL SCIENCE 30
CC.2 APPARATUS CONSTRUCTION AND UTILISATION 30
CC.3 COMMUNICATION AND STUDY SKILLS IN ENGLISH 30
CC.4 HISTORY, ETHICS AND PROFESSIONAL PRACTICE 31
CC.5 IMAGE RECORDING 31
CC.6 MICROBIOLOGY, PARASITOLOGY AND PATHOPHYSIOLOGY 31
CC.7 PHYSICS FOR RADIOGRAPHERS 32
CC.8 RADIATION TECHNIQUE 32

DD. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (OPERATING ROOM) 32

DD.1 NURSING ETHOS AND PROFESSIONAL PRACTICE 32
DD.2 HEALTH SERVICE MANAGEMENT I 32
DD.3 SCIENTIFIC FOUNDATIONS OF NURSING (SPECIAL) 33
DD.4 THEORY AND PRACTICE OF OPERATING ROOM NURSING SCIENCE 33

EE. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (CRITICAL CARE) 33

EE.1 NURSING ETHOS AND PROFESSIONAL PRACTICE 33
EE.2 HEALTH SERVICE MANAGEMENT I 33
EE.3 SCIENTIFIC FOUNDATIONS OF NURSING (SPECIAL) 33
EE.4 THEORY AND PRACTICE OF CRITICALCARE NURSING SCIENCE 33

FF. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (HEALTH PROMOTION, CLINICAL DIAGNOSIS AND TREATMENT) 34

FF.1 NURSING ETHOS AND PROFESSIONAL PRACTICE 34
FF.2 HEALTH SERVICE MANAGEMENT I 34
FF.3 PHARMACOTHERAPY 34
FF.4 SCIENTIFIC FOUNDATIONS OF NURSING (SPECIAL) 34
FF.5 THE THEORY, PHILOSOPHY AND PROCESS OF PRIMARY HEALTH CARE 34

GG. MASTER OF NURSING SCIENCE (MEDICAL-SURGICAL NURSING) 35

GG.1 PHARMACOTHERAPY 35
GG.2 RESEARCH METHODOLOGY 35
GG.3 THEORY AND PRACTICE OF CRITICAL CARE NURSING 35
GG.4 RESEARCH PROJECT 35

HH. MASTERS OF NURSING SCIENCE 35

HH1 MASTERS THESIS 35

II MASTERS IN PUBLIC HEALTH 35

II.1 PHILOSOPHY AND BASIS OF PUBLIC HEALTH 35
II.2. DEMOGRAPHY OF HEALTH AND ILLNESS 35
II.3 BASIC EPIDEMIOLOGY AND BIOSTATISTICS 35
II.4 DEMIOLOGICAL RESEARCH METHODOLOGY 36
II. 5 HEALTH POLICY DEVELOPMENT AND PLANNING 36
II.6 HEALTH SERVICE MANAGEMENT 36
II.7 PRIMARY HEALTH CARE (PHC) 36
II.8 HEALTH PROMOTION AND BEHAVIOURAL SCIENCES 36
II.9 ENVIRONMENTAL HEALTH SCIENCES 36
II.10 DISEASE CONTROL STRATEGIES 36
II.11 SECOND YEAR 37

JJ. DOCTORAL OF NURSING SCIENCE 37

JJ.1 DOCTORAL THESIS. 37

KK. CERTIFICATE IN NURSING ACCIDENT AND EMERGENCY NURSING 37

KK1 ASPECTS RELATED TO NURSING TRAUMA AND EMERGENCY NURSING SITUATIONS 37

LL CERTIFICATE IN NURSING SCIENCE OPERATING ROOM 37

LL1. MODULE 1: THEATRE TECHNIQUE AND RELATED MEDICO-LEGAL AZARDS 37
LL2. MODULE 2: ANAESTHESIA AND RECOVERY ROOM PATIENT CARE 37
LL3. MODULE 3: APPLIED ADMINISTRATION 37

MM CERTIFICATE IN NURSING ADVANCED SKILLS 37

MM.1 ECG INTERPRETATION 37
MM.2 LABORATORY RESULTS 37
MM.3 WOUND CARE 37
MM.4 RADIOGRAPHY IMAGING 37

ADVICE, INFORMATION AND GENERAL REGULATIONS 37

ATTENDANCE OF LECTURES 37
GENERAL INFORMATION 37

NEW PROGRAMMES 2009 38

1 GENERAL REGULATIONS PERTAINING TO UNDERGRADUATE STUDIES IN THE FACULTY OF MEDICAL AND HEALTH SCIENCES 39

A. BACHELOR OF NURSING SCIENCE CLINICAL 39

A1. ADMISSION REQUIREMENTS: 39
A.2. DURATION: 39
A.3. PROFESSIONAL DEVELOPMENT PLACEMENT 39
A.4 DELIVERY MODE: 40
A.5 IMPLEMENTATION: 40
A.6 TEACHING AND LEARNING MODEL: 40
A.7. ASSESSMENT: 40
A.8 ACADEMIC ADVANCEMENT RULES 40
A.9 CONFIRMING OF THE DEGREE: 40
A.10 PRACTICAL COMPONENT: 40
A11. BACHELOR OF NURSING SCIENCE DEGREE CURRICULUM COMPILATION: 41
A.12. MODULE / CODES AND RESTRICTION ON MODULES 43

AA. MODULE DESCRIPTORS (SYLLABI) 43

AA.1 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 1 43
AA.2 MODULE DESCRIPTOR: BASIC HUMAN ANATOMY 43
AA.3 MODULE DESCRIPTOR: APPLIED HUMAN ANATOMY 44
AA.4 MODULE DESCRIPTOR: INTRODUCTION TO PSYCHOLOGY 44
AA.5 MODULE DESCRIPTOR: SOCIAL PSYCHOLOGY 44
AA.6 MODULE DESCRIPTOR: HEALTH CARE DYNAMICS 44
AA.7 MODULE DESCRIPTOR: COMPUTER LITERACY 45
AA.8 MODULE DESCRIPTOR: CONTEMPORARY SOCIAL ISSUES 45
AA.9 MODULE DESCRIPTOR: ENGLISH COMMUNICATION AND STUDY SKILLS 45
AA.10 MODULE DESCRIPTOR: ENGLISH FOR ACADEMIC PURPOSES 46
AA.11 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 2 46
AA.12 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING SCIENCE MODULE 46

AA.13 MODULE DESCRIPTOR: BASIC HUMAN PHYSIOLOGY 46
AA.14 MODULE DESCRIPTOR: APPLIED HUMAN PHYSIOLOGY 47
AA.15 MODULE DESCRIPTOR: MIDWIFERY SCIENCE 1 47
AA.16 MODULE DESCRIPTOR: FOUNDATION OF SOCIOLOGY 47
AA.17 MODULE DESCRIPTOR: BASICS OF SOCIOLOGY: PARADIGMS AND METHODS 47
AA.18 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE MODULE 3 48
AA.19 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING 2 48
AA.20 MODULE DESCRIPTOR: MICROBIOLOGY 48
AA.21 MODULE DESCRIPTOR: PHARMACOTHERAPY 48
AA.22 MODULE DESCRIPTOR: RESEARCH PAPER IN HEALTH 49
AA.23. MODULE DESCRIPTOR: SOCIAL PROBLEMS 49
AA.24 MODULE DESCRIPTOR: SOCIOLOGY OF DEVELOPMENT 49
AA.25 MODULE DESCRIPTOR: ORGANISATIONAL/PERSONNEL PSYCHOLOGY 49
AA.26 MODULE DESCRIPTOR: MIDWIFERY SCIENCE 2 50
AA.27 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 4 50
AA.28 MODULE DESCRIPTOR: COMMUNITY NURSING SCIENCE 3 50
AA.29 MODULE DESCRIPTOR: MENTAL HEALTH NURSING 51
AA.30 MODULE DESCRIPTOR: ETHOS AND PROFESSIONAL PRACTICE 51
AA.31 MODULE DESCRIPTOR: HEALTH RESEARCH METHODS 51
AA.32 MODULE DESCRIPTOR: RESEARCH PAPER IN HEALTH 51
AA.33 MODULE DESCRIPTOR: TRAUMA AND EMERGENCY CARE 52

B. BACHELOR OF RADIOGRAPHY (DIAGNOSTIC) CURRICULUM FRAMEWORK 52

B.1 ADMISSION REQUIREMENTS: 52
B.2 DURATION OF THE STUDY: 52
B.3 PROFESSIONAL DEVELOPMENT PLACEMENT: 52
B.4 DELIVERY MODE: 52
B.5 IMPLEMENTATION: 53
B.6 TEACHING–LEARNING MODEL: 53
B.7 ASSESSMENT: 53
B.8 QUALITY ASSURANCE: 53
B.9 ACCREDITATION OF OTHER QUALIFICATIONS: 53
B.10 CONFIRMING OF DEGREE: 53
B.11 MINIMUM REQUIREMENTS AND ADVANCEMENT RULES: 53
B.12 ACADEMIC ADVANCEMENT RULES (MINIMUM NUMBER MODULES TO BE PASSED FOR PROMOTION TO THE NEXT YEAR): 53
B.13 PRACTICALS (COMPONENT B): 53
B.14 . BACHELOR OF RADIOGRAPHY (DIAGNOSTIC) CURRICULUM FRAMEWORK 54
B.15 MODULE / CODES AND RESTRICTION ON MODULES 56

BB. MODULE DESCRIPTION (SYLLABI) 57

BB.1 MODULE DESCRIPTOR: RADIATION TECHNIQUE 1 57
BB.2 MODULE DESCRIPTOR: METHODS OF PATIENT CARE AND PREPARATION 57
BB.3 MODULE DESCRIPTOR: RADIOGRAPHIC PRINCIPLES AND MATERIALS AND PROCESSING 57
BB.4 MODULE DESCRIPTOR: BASIC HUMAN ANATOMY 57
BB.5 MODULE DESCRIPTOR: HEALTH CARE DYNAMICS 58
BB.6 MODULE DESCRIPTOR: CONTEMPORARY SOCIAL ISSUES 58
BB.7 MODULE DESCRIPTOR: COMPUTER LITERACY 58
BB.8 MODULE DESCRIPTOR: ENGLISH COMMUNICATION AND STUDY SKILLS 59
BB.9 MODULE DESCRIPTOR: RADIOGRAPHIC IMAGE CHARATERISTICS 59
BB.10 MODULE DESCRIPTOR: APPLIED HUMAN ANATOMY 59
BB.11 MODULE DESCRIPTOR: PHYSICS FOR RADIOGRAPHERS 60
BB.12 MODULE DESCRIPTOR: ENGLISH FOR ACADEMIC PURPOSES 60
BB.14 MODULE DESCRIPTOR: RADIATION TECHNIQUE 2 60
BB.15 MODULE DESCRIPTOR: RADIOGRAPHICQUALITY CONTROL, QUALITY ASSURANCE AND MODERN IMAGING TECHNIQUUES 61
BB.16 MODULE DESCRIPTOR: CLINICAL RADIATION TECHNIQUE 2 61
BB.17 MODULE DESCRIPTOR: BASIC HUMAN PHYSIOLOGY 61
BB.18 MODULE DESCRIPTOR: PRINCIPLES OF APPARATUS CONSTRUCTION & UTILIZATION 61
BB.19 MODULE DESCRIPTOR: RADIOGRAPHY, ETHICS AND PROFESIONAL PRACTICE 61
BB.20 MODULE DESCRIPTOR: APPLIED HUMAN PHYSIOLOGY 62
BB.21 MODULE DESCRIPTOR: APPLIED APPARATUS CONSTRUCTION & UTILIZATION 62
BB.22 MODULE DESCRIPTOR: RADIATION TECHNIQUE 3 62
BB.23 MODULE DESCRIPTOR: CLINICAL RADIATION TECHNIQUE 3 62
BB.24 MODULE DESCRIPTOR: RADIOBIOLOGY 62
BB.26 MODULE DESCRIPTOR: RADIATION PROTECTION 63
BB.27 MODULE DESCRIPTOR: RADIOGRAPHIC FILM CRITIQUE 63
BB.28 MODULE DESCRIPTOR: PATHOPHYSIOLOGY 63
BB.29 MODULE DESCRIPTOR: APPARATUS CONSTRUCTION AND UTILIZATION 63

BB.30 MODULE DESCRIPTOR: RADIATION TECHNIQUE 4 64
BB.31 MODULE DESCRIPTOR: HEALTH RESEARCH METHODS 64
BB.32 MODULE DESCRIPTOR: MANAGEMENT FOR RADIOGRAPHERS 64
BB.33 MODULE DESCRIPTOR: RADIOGRAPHIC PATHOLOGY 64
BB.34 MODULE DESCRIPTOR: RESEARCH PAPER IN HEALTH 65

C. BACHELORS OF SCIENCE (PRE-MEDICAL) TRAINING: 65

C.1 ADMISSION: 65
C.2 DURATION OF STUDY: 65
C.3 EXAMINATION REGULATIONS 65
C.5 PRACTICAL 65
C.6 CURRICULUM COMPILATION: 65

CC. MODULE DESCRIPTIONS (SYLLABI) 66

CC.1 MODULE DESCRIPTOR: ENGLISH COMMUNICATION AND STUDY SKILLS 66
CC.2 MODULE DESCRIPTOR: ENGLISH FOR ACADEMIC PURPOSES 66
CC.3 MODULE DESCRIPTOR: COMPUTER LITERACY 66
CC.4 MODULE DESCRIPTOR: BASIC MATHEMATICS 67
CC.5 MODULE DESCRIPTOR: PRECALCULUS 67
CC.6 MODULE DESCRIPTOR: INTRODUCTORY BIOLOGY 67
CC.7 MODULE DESCRIPTOR: DIVERSITY OF LIFE I 68
CC.8 MODULE DESCRIPTOR: DIVERSITY OF LIFE II 68
CC.9 MODULE DESCRIPTOR: GENERAL CHEMISTRY MODULES: 68
CC.10 MODULE DESCRIPTOR: CHEMISTRY 1B 69
CC.11 MODULE DESCRIPTOR: PHYSICS FOR LIFE SCIENCES I 69
CC.12 MODULE DESCRIPTOR PHYSICS FOR LIFE SCIENCES II 69
CC.13 MODULE DESCRIPTOR: CELL MOLECULAR BIOLOGY AND GENETICS 70
CC.14 MODULE DESCRIPTOR: INTRODUCTION TO MICROBIOLOGY 70
CC.15 MODULE DESCRIPTOR: HUMAN BIOLOGY 70
CC.16 MODULE DESCRIPTOR: INORGANIC CHEMISTRY 71
CC.17 MODULE DESCRIPTOR: ANALYTICAL CHEMISTRY MODULES: 71
CC.18 MODULE DESCRIPTOR: ORGANIC CHEMISTRY 71
CC.19 MODULE DESCRIPTOR: ANIMAL FORM AND FUNCTION 72
CC.20 MODULE DESCRIPTOR: COMMUNITY HEALTH SCIENCE MODULE FOR PREMED & POPULATION DEVELOPMENT 72

D DIPLOMA IN GENERAL NURSING AND MIDWIFERY SCIENCE CURRICULUM. 72

D.1 ADMISSION REQUIREMENTS 72
D.2 DURATION OF THE STUDY 72
D.3 PROFESSIONAL DEVELOPMENT PLACEMENT 72
D.4 DELIVERY MODE 72
D.5 IMPLEMENTATION 73
D.6 TEACHING – LEARNING MODEL 73
D.7 ASSESSMENT 73
D.8 QUALITY ASSURANCE 73
D.9 CONFIRMING OF THE DIPLOMA 73
D.10. ACADEMIC ADVANCEMENT RULES 73
D.11. PRACTICAL (COMPONENT B) 73
D.12. CURRICULUM FRAMEWORK 74

DD MODULE DESCRIPTIONS 75

DD.13 MODULES DESCRIPTOR 75
DD.14 MODULE DESCRIPTOR : ENGLISH FOR GENERAL COMMUNICATION 75
DD.15 MODULE DESCRIPTOR : COMPUTER LITERACY 76
DD.16 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 1 76
DD.17 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING SCIENCE1 76
DD.18 MODULE DESCRIPTOR: FUNDAMENTALS OF HUMAN ANATOMY AND PHYSIOLOGY 76
DD.19 MODULE DESCRIPTOR: APPLIED HUMAN ANATOMY AND PHYSIOLOGY 76
DD. 20 MODULE DESCRIPTOR: INTERPERSONAL ABILITIES IN HEALTH CARE 77
DD.21 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 11 77
DD.22 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING SCIENCE 11 77
DD.23 MODULE DESCRIPTOR : MICROBIOLOGY 77
DD.24 MODULE DESCRIPTOR: PHARMACOLOGY 77
DD.25 MODULE DESCRIPTOR: MIDWIFERY SCIENCE 1 78
DD.26 MODULE DESCRIPTOR: BASIC PRINCIPLES OF WOUND CARE 78
DD.27 MODULE DESCRIPTOR: PROBLEM SOLVING AND CRITICAL THINKING SKILLS IN HEALTH CARE 78
DD.28 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 111 78
DD.29 MODULE DESCRIPTOR:MIDWIFERY SCIENCE 11 78
DD.30 MODULE DESCRIPTOR: MENTAL HEALTH NURSING SCIENCE 78
DD.31 MODULE DESCRIPTOR: ETHOS AND PROFESSIONAL PRACTICE 79
DD.32 MODULE DESCRIPTOR: EMERGENCY NURSING 79

E. CERTIFICATE IN CLINICAL INSTRUCTION 79

E.1 ADMISSION 79
E.2 DURATION OF STUDY 79
E.3 CURRICULUM COMPILATION AND AIM 79
E.4 EXAMINATION REGULATIONS 79
E.5 REGISTRATION AND ADVANCEMENT RULE 79
E.6 PRACTICALS 79
E.7 CURRICULUM FRAMEWORK 80

EE. MODULE DESCRIPTIONS 80

EE.1 MODULE DESCRIPTOR: ELEMENTS IN CLINICAL INSTRUCTION 80
EE.2 MODULE DESCRIPTOR: FACILITATION OF CLINICAL INSTRUCTION 80
EE.3 MODULE DESCRIPTOR: CLINICAL ATTACHMENT 80

ADVICE, INFORMATION AND GENERAL REGULATIONS 81

ATTENDANCE OF LECTURES 81

FACULTY PREAMBLE

The key mission of the faculty is to prepare academically and professionally qualified persons for the health needs of Namibia, and to render service, especially in the domains of preventive and curative health.

The key objectives of the faculty are:

* to provide professionally directed education in medical and health sciences;
* to enable the Namibian public to receive high quality, safe, professionally- and ethically-based health care; and
* to conduct research directed to the health needs of society, which is instrumental in rendering community service and education.

NURSING SERVICE PLEDGE

I solemnly declare that my ultimate responsibility as a nurse is to promote and safeguard the total well being of my clients, their families and the community at large.

My practice will be founded on respect for my client's humanity, dignity and individuality.

I undertake to treat my clients equally and will not allow that social, economical, political, religious or cultural differences influence the care I render.

To fulfill the needs of my clients, I will endeavor to understand and address it with compassion and empathy.

I accept it as my duty to protect the interest of my clients and to maintain professional secrecy.

I will comply with all moral, legal and professional standards in the execution of my duties and inspire others in achieving our shared vision.

Finally I pledge to maintain the highest level of knowledge and skills and to contribute towards the development of my profession.

2009 ACADEMIC CALENDAR

FIRST SEMESTER

06 January	University opens
16 January	Lecturers resume office duties
02 Feb - 20	February Registration (Last day for Late Registration: 25 February)
23 February	**Lectures commence for the FIRST SEMESTER**
14 April	EASTER BREAK starts
20 April	Lectures resume after Easter Break
12June	**Lectures ends for the FIRST SEMESTER**
16 June	First Opportunity Examinations (Semester I modules) commence
03 July	First Opportunity Examinations (Semester I modules) end
03 July	**End of the first semester**

SECOND SEMESTER

27 July	**Lectures commence for the SECOND SEMESTER**
14 September	SPRING BREAK starts
21 September	Lectures resume after Spring Break
06 November	**Lectures end for the SECOND SEMESTER**
10 November	First Opportunity Examinations (Semester II & year-modules) commence
27 November	First Opportunity Examinations (Semester II & year- modules) end
27 November	**End of the second semester**
17 December	Academic Year ends & University closes (re-opens11 January 2010)
12 January 2010	Second Opportunity Exams (2009 Semester I, II & year -modules) commence
29 January 2010	Second Opportunity Examinations end (2009Semester I, II & year-modules) end

DEADLINES FOR THE 2009 ACADEMIC YEAR

(i) GENERAL

Last day for Late Registration (*Late fee payable*) ……25 February
Last day for approval of exemptions……..25February
Last day for approval of retention of continuous assessment mark…25 February
Last day for approval of modules & qualification changes……..25 February
Last day to submit outstanding documentation……31 July
Last day to apply for enrolment cancellation……02 October

(ii) CANCELLATIONS

First Semester Modules

Last day to cancel first Semester modules……08 May

Second Semester Modules

Last day to cancel second Semester modules……....02 October

Year –and Double Modules

Last day to cancel year –and Double modules……02 October

(iii) FINANCE

First Semester Modules

Last day to cancel with 100 % credit……13March
Last day to cancel with 50 % credit……17 April

Second Semester Modules

Last day to cancel with 100 % credit……07 August
Last day to cancel with 50 % credit……..04Sept

Year and Double Modules

Last day to cancel with 100 % credit……13 March
Last day to cancel with 50 % credit……..05June

PERSONNEL

OFFICE-BEARERS AND ADMINISTRATIVE PERSONNEL

Dean: Dr. L. Haoses-Gorases
Deputy Dean: Dr. M. Van Der Vyver
Departmental Heads: Ms N Sumpi
Department of Nursing Science:
Department of Medicine:
Department of Pharmacy:
Department of Para-medical Studies:
Head of Department

Faculty Officer: Ms L Prinsonsky
Senior Administrative Officers: Mr F Katjiruru
Secretary: Ms I Isaacs
Administrative Officer: Ms T Ndevashiya (Oshakati)

General enquiries regarding the Faculty of Medical and Health Sciences and the qualifications offered by the Faculty may be directed to:

The Faculty Officer
Faculty of Medical and Health Sciences
University of Namibia
Private Bag 13301
WINDHOEK

Tel: +264+61+206-3828
Fax: +264+61+206-3922
E-mail: lprinsonsky@unam.na

Matters regarding specific courses and departments must be directed to the relevant Heads.

ACADEMIC PERSONNEL

DEPARTMENT OF NURSING SCIENCE

UNIT: GENERAL NURSING SCIENCE

Head: DR J M V/D VYVER:

Lecturers: DR J M V/D VYVER: RN, RM, R CHN, NA, RT, BCURHONS (UNISA), MNSC (UNAM)DNSC(UNAM).
MS M KATJIRE:RN, RM, R NA, RT, RCNI, BCUR (UNISA), BCURPROGPRAXHONS, MNSC(UNAM).
MS H UDJOMBALA: RN, RM, RT, BSOCSC (UN), BNSCADV PRAC PRACHONS (UNAM).M.CURR.(STELLENBOSCH) .
MS A R E KLOPPERS:RN,RM,RT,ROTT,BA(UNMM),B ED. (UNAM).MSC(UAM)MS.
K AMAKALI RN, RM, RT,RCHN ,BCUR IET A (FORT HARE) BNSC.ADV PRAC HONS (UNAM).MPH(USC.)
MS S M ASHIPALA: RN,RM, RCN, RPN, RT, RNA, BNSCADVPRAC (UNAM), BNSC ADV HONS (UNAM).
MS L PINEHAS: RN, RM, RCH, PSCH, DIPL. ADV.NUR.SC,NURS.ED. (UNAM)
B.NSC.ADVPRAC(UNAM),MCUR ADV.PRAC.NUR.ED.(UNIV.OF PRETORIA).
MR N P T SHIFUGULA:RN,RM,(N.BNSC.ADVPRAC(UNAM)DIP.PUBHEALTH (MEDUNSA).

Junior Lecturers MS M J J ACKERMAN: RCHN, RT, RN, RM, BCUR (UNISA), BNSCADVPRACH
ONS, (UNAM).

UNIT: COMMUNITY HEALTH NURSING SCIENCE

Head: MS M B TIBINYANE:

Senior Lecturer: Dr. S N IIPINGE: RN, RM, RT, RCN, RNA,BCUR (UNISA), BCURPROGPRAX HONS (UNAM), MCOMMH (LIVERPOOL).UK D.CUR. (RAU)RSA

Lecturers: MS J KLOPPERS: RN, RM, RCN, RNA, BCUR (UNISA),BCUP ROGPRAX HONS (UNAM).MNSC (UNAM).
MS L N LUKOLO: RM, PPN, RT, RCN, RNA, BNSCADVPRAC, BNSCADVPRACHONS, (UNAM). M.CURR. (STELLENBOSCH).
MS H IITA: RN, RM, RCN, RPN, RNA, RT,CHN NADM, BACUR (UNISA) MNSC(UNAM).
MS L N NELUMBU: RN, RM, BNSC (UNAM), BNSCADVPRACHONS (UNAM). MNSC (UNAM).
MS N G SUMPI: RN, RM, RCN, RNA, REDUC, BCUR (MEDUNSA), BCURPROG PRAXHONS (UNAM).DIPPUB.HEALTH (MEDUNSA)
MPUB.HEALTH (MEDUNSA).
MS S N SHIVUTE:RN,RM,RT,RCN,DIPNED(UNIN),BACUR(UNISA)BCURHONS (UNISA).MNSC(UNAM).

Junior Lecturers: MS M B TIBINYANE: RN, RM, RCHN, RADMIN, RED, RPSYC, BCUR (ZULULAND) BNSCADVPRAC HONS (UNAM) MED.SOC.HONS (NORTH – WEST UNIV.)

MS H NESHUKU: RN, RM, ADVDIPNURSC (UNAM).
MS P ANGULA: RN, RM, BNSC (UNAM) BNSCADVPRAC HONS (UNAM).MNSC(UNAM)

UNIT: CLINICAL NURSING EDUCATION: NATIONAL AND INTERNATIONAL

Head: MS L PRETORIUS: RN, RM, RPN, BCUR (UNISA), BCUR PROGPRAXHONS (UNAM) MNSC (UNAM).

UNIT: MIDWIFERY SCIENCE

Head: MS L TAUIKUHEKE

Senior Lecturer: VACANT

Lecturer: DR K HOFNIE-//HOËBES: RN, RM, RCN, RNA, RT, BCUR (UNISA), BCUR PROGPRAXHONS (UNAM), MSC. (LONDON).DNSC(UNAM)
MS L TAUKUHEKE: RN, RM, RCN, RT, BACUR (UNISA), BCUR PROGPRAXHONS (UNAM) MCUR ADV MIDWIFERY (MEDUNSA).
MS S A DAWID: RN, RM,RT, RCN, DIPLOCC/N, DIPLNED (UN), BACUR (UNISA),CHR,(CAPE),MNSC(UNAM).

Junior Lecturers: MS R T SHIGWEDHA: RN, RM, RNA, RCN, RT, BSOCSCHONS (UN), BACUR (UNISA).
MS T DE ALMEIDA: RN, RM BACUR (UNAM).

UNIT: MENTAL HEALTH

Head: MS W WILKINSON

Lecturers: MS W WILKINSON: RN, RM, RT, RCN, RPN, MSOCSCPSYC (UOFS), BCUR PROGPRAXHONS (UNAM).
MS N N SHIFIONA: RCN, RN, RM, RT, RNA, RPN, DIPLNED (UNIN), BCUR (UNISA), BNSCADVPRAC HONS (UNAM), MCURPSYC (RAU).

UNIT: SCIENTIFIC FOUNDATIONS OF NURSING

Head: PROF L SMALL

Senior Lecturers: DR L HAOSES- GORASES: RN, RM, RT, RCN, RNA, DIPLNED and CHN (UWC), BCUR (UNISA), BCURHONS, MCUR, DNSC (UNAM)

Associate Professor: PROF L SMALL: RN, RM, RLN, RT, RCN, RPN, RCCN, BSOCSC, BSOCSCHONS (UOFS), BCUR, BCURHONS (UNISA), MCUR, DNSC (UNAM).
MS S KUUGONGELWA: RN, RM, RT, RCN, DIPLNED (UN), BCUR (UNISA), BNSCADVPRAC HONS (UNAM) MNSC (UNAM).

Junior Lecturers: MR P A AMKONGO: RN, RON, RT, RNA, DIPLORTHNUR (WHK), DIPLNED (UN), BACUR (UNISA).

UNIT: NURSING ETHOS AND PROFESSIONAL PRACTICE, NURSING EDUCATION AND HEALTH SERVICE MANAGEMENT

Head: PROF. A. VAN DYK:

Professor: PROF A VAN DYK: RN, RM, RCN, RNA, RT, BCUR BCURHONS, MCUR (UNISA), DCUR (UNAM).

Lecturers: MS L VD WESTHUIZEN: RN, RM, RNA, RT, BCUR (UWC) BCURPROGPRAX (ACADEMY NAMIBIA) BCURPROGPRAXHONS (UNAM). MCUR (RAU)
MS E DE VILLIERS: RN, RM, RT, RNA, RCN, BCUR (UNISA), BNSCADVPRACHONS (UNAM).MPHIL (APPLIED ETHICS) STELLENBOSCH

Junior Lecturers: MS M T IYAMBO: RN, RM, RT, RCN, BACUR (UNISA).

Sociology Lecturer: MS K K SHIKONGO: RN, RM, RT, RCN, RNA, DIPLNED (UNIN), BCUR (UINISA), BCUR PROGPRAX HONS (UNAM), MNSC. (UNAM)

UNIT: RADIOGRAPHY

Assistant Lecturers: MS.L.KALONDO: NDRD (UNAM).B.TECH(PEN.TEHC.).
MS. C. DAMASES: NDRD (UNAM).B.TECH(NATALTECH.).

DEPARTMENT OF MEDICINE: Honorary Professors:

UNIT: ANAESTHETICS

Head: PROF G B MAUGHAN-BROWN: MB, CHB, FFARCS

UNIT: COMMUNITY HEALTH

Head: VACANT

UNIT: GYNAECOLOGY AND OBSTETRICS

Head: VACANT

UNIT: INTENSIVE CARE

Head: PROF A R LICHTMAN: MB (UCT), DA (COLLEGE OF MEDICINE SA)

UNIT: MEDICINE

Head: PROF O J OOSTHUIZEN: MB, CHB (UK), MMEDINT (US) MD (US).

UNIT: SURGERY

Head: VACANT

Surgeon Oshakati Hospital: PROF F AMAAMBO: MB, CHB, (NATAL), FRCS GLASGOW

UNIT: MENTAL HEALTH

Head: VACANT

UNIT: RADIOLOGY

Head: VACANT

REGULATIONS

The regulations should be read in conjunction with the General Information and Regulations Prospectus.

COURSE OF STUDY

DEGREES

The Faculty may award the following degrees:

❖ Bachelor of Nursing Science (Advanced Practice) via CES	70BNSC
❖ Bachelor of Science (Pre- Medical) Training	14BPME
❖ Master of Nursing Science	14MNSC
❖ Master of Medical-Surgical	14MNMS
❖ Masters in Public Health	14NMPH
❖ Doctor of Nursing Science	14DNSC

DIPLOMAS

The Faculty may award the following diplomas:

❖ Diploma in Comprehensive Nursing and Midwifery Science	14DCNM(phasing out)
❖ Diploma in Midwifery Science	14DMID
❖ National Diploma in Radiography (Diagnostic)	14DRAD(phasing out)
❖ Advanced University Diploma in Nursing Science (Operating Room)	14DORA
❖ Advanced University Diploma in Nursing Science (Critical Care)	14DCCA
❖ Advanced University Diploma in Nursing (Health Prom)	14DHPA

CERTIFICATES

❖ Accident and Emergency	14CNCC
❖ Theatre Technique	14CNOR
❖ Pharmacotherapy	14NDPU
❖ Advanced Nursing Skills	14CNAS

A. DIPLOMA IN COMPREHENSIVE NURSING AND MIDWIFERY SCIENCE

A.1 ADMISSION

To register for the Diploma in Comprehensive Nursing and Midwifery Science, a candidate must comply with the following conditions:

- A candidate should hold a valid Namibian Senior Secondary Certificate (NSSC) at Ordinary level or Higher level with passes in at least five subjects, which add up to at least 25 points, calculated using the UNAM scale.
- English as a compulsory subject and should be obtained (as a second language) grade C or better, or a grade D or better (as a first language)
- Admission will also be considered for persons who qualify through the Mature Age Entry Scheme;-

Note: Annually after registration, every student must furnish the Faculty with proof of current registration as a student with the Interim Nursing Council.

A.2 DURATION OF STUDY

The course of study extends over a period **of at least FOUR YEARS (full-time). The maximum period of study is six years.**

A.3 CURRICULUM COMPILATION

The curriculum of the Diploma in Comprehensive Nursing and Midwifery Science (14DCNM) has been compiled as follows:

YEAR 1

Semester 1		**Semester 2**	
NGN 2110	General Nursing Science	NGN2110	General Nursing Science
UCN2110	English Communication for Nurses	UCN2110	English Communication for Nurses
UCC3109	Computer Literacy (basic)	NCH2110	Community Health Nursing
UCI3109	Contemporary Social Issues	NEP2112	Nursing Ethos &Prof. Practice
MCH2101	Health Care Dynamics	NAB2112	Applied Biological Science
NCH2110	Community Health Nursing		
NAB2111	Applied Biological Science I		

YEAR 2

Semester 1		**Semester 2**	
NGN2210	General Nursing Science	NGN2210	General Nursing Science
NCH2210	Community Health Nursing	NCH2210	Community Health Nursing
NAB2211	Applied Biological Science II	NAB2212	Applied Biological science II
SOC2210	Sociology I	SOC2210	Sociology I
NMS2210	Midwifery Science I	NMS2210	Midwifery Science

YEAR 3

Semester 1		**Semester 2**	
NGN2310	General Nursing Science	NGN2310	General Nursing Science
NCH2310	Community Health Nursing	NCH2310	Community Health Nursing
NAB2311	Applied Biological Science III	NAB2312	Applied Biological Science III
SOC2310	Sociology II	SOC2310	Sociology II
NMS2310	Midwifery Science II	NMS2310	Midwifery II

YEAR 4

Semester 1		**Semester 2**	
NGN2410	General Nursing Science	NGN2410	General Nursing Science
NCH2410	Community Health Nursing	NCH2410	Community Health Nursing
NEP2409	Nurs. Ethos & Prof. Practice	NMH2410	Mental Health
NMH2410	Mental Health		

A4. COURSES CODES AND RESTRICTION

COURSES

COURSE/CODES		**PRE-REQUISITES / CO-REQUISITES**
YEAR1		
NGN 2110	General Nursing Science	
UCN2110	English Communication for Nurses	
UCC3109	Computer Literacy	
UCI3109	Contemporary Social Issues	
NCH2110	Community Health Nursing	
NAB2111	Applied Biological Science	
NEP2112	Nurs. Ethos & Profess. Practice	

YEAR 2

NGN2210	General Nursing Science	NAB2111/2112 /NGN2110
NCH2210	Community Health Nursing	NCH2110
NAB2212	Applied Biological Science	NAB2211 co – requisite +
SOC2210	Sociology 1	NAB2111/2112 pre – requisite
NMS2210	Midwifery Science	NAB2111/2112

YEAR 3

NGN2310	General Nursing Science	NGN2210 /NAB2211/2212	
NCH2310	Community Health Nursing	NCH2210	
NAB2312	Applied Biological Science	NAB2311	co-requisite
SOC2310	Sociology II	NAB2211/2212	pre – requisite
NMS2310	Midwifery Science II	SOC2210	Sociology I
		NMS2210	

YEAR 4

NGN2410	General Nursing Science	NGN2310	General Nursing Science
NCH2410	Community Health Nursing	NCH2310	Community Health Nursing
NEP2409	Nursing Ethos and Professional Practice	NEP2112	Nursing Ethos and professional Practice

YEAR 1

Semester 1	Credits & NQF Levels	Pre & Co Requisite	Semester 2	Credits& NQF Levels	Pre& Co Requisite
NGN 2110 General Nur. Science I	16 Credits NQF Level 5		NGN 2110 General Nursing Science I	16 Credits NQF Level 5	
UCI 3109 Contemporary Social Issues	8 Credits NQF Level 4		NEP 2112 Nursing Ethos & Prof. d Practice	16 Credits NQF Level 5	
MCH 2101 Health Care Dynamics	8 Credits NQF Level 5				
NCH 2110 Community Health Nur. Science I	16 Credits NQF Level 5		NCH 2110 Community Health Nur. Science	16 Credits NQF Level 5	
NAB 2111 Applied Biol. Science I	16 Credits NQF Level 5		NAB 2112 Applied Biol. Science I.	16 Credits NQF Level 5	
UCN 2110 Communication & Study Skills in English for Nurses	16 Credits NQF Level 5		UCN 2110 Communication & Study Skills in English for Nurses	16 Credits NQF Level 5	
UCC 3109 Computer Literacy (Basic)	8 Credits NQF Level 5		UCC 3109 Computer Literacy (Basic)	16 Credits NQF Level 5	

YEAR 2

Semester 1	Credits& NQF Levels	Pre & Co Requisites	Semester 2	Credits & NQF Levels	Pre & Co Requisites
NGN 2210 General Nursing Science II	16 Credits NQF Level 5	NGN2110 NAB 2111/2112	NGN 2210 General Nursing Science II	16 Credits NQF Level 5	NGN2110
SOC 2210 Sociology I	16 Credits NQF Level 5		SOC 2210 Sociology I	16 Credits NQF Level 5	
NCH 2210 Community Health Nursing Science II	16 Credits NQF Level 6	NCH2110	NCH 2210 Community Health Nursing Science II	16 Credits NQF Level 6	NCH2110
NAB 2211 Applied Biological Science II	16 Credits NQF Level 5	NAB 2111/2112	NAB 2212 Applied Biological Science II	16 Credits NQF Level 5	NAB 2111/2112
NMS 2210 Midwifery Science I	16 Credits NQF Level 5	NAB2111/2112	NMS 2210 Midwifery Science	16 Credits NQF Level 5	

YEAR 3

Semester 1	Credits& NQF Levels	Pre & Co Requisites	Semester 2	Credits & NQF Levels	Pre & Co Requisites
NGN 2310 General Nursing Science III	16 Credits NQF Level 6	NGN 2210	NGN 2310 General Nursing Science III	16 Credits NQF Level 6	NGN 2210
NCH 2310 Community Health Nursing Science III	16 Credits NQF Level 7	NCH 2210	NCH 2310 Community Health Nursing Science III	16 Credits NQF Level 7	NCH 2210
NAB 2311 Applied Biological Science III	16 Credits NQF Level 6	NAB 2211/2212	NAB 2312 Applied Biological Science II	16 Credits NQF Level 6	NAB 2211/2212
NMS 2310 Midwifery Science II	16 Credits NQF Level 6	NMS 2210	NMS 2310 Midwifery Science II	16 Credits NQF Level 6	NMS 2210
SOC 2310 Sociology II	16 Credits NQF Level 6	SOC 2210	SOC 2310 Sociology II	16 Credits NQF Level 6	SOC 2210

YEAR 4

Semester 1	Credits& NQF Levels	Pre & Co Requisites	Semester 2	Credits & NQF Levels	Pre & Co Requisites
NGN 2410 General Nursing Science III	16 Credits NQF Level 7	NGN 2310	NGN 2410 General Nursing Science III	16 Credits NQF Level 7	NGN 2310
NCH 2410 Community Health Nursing Science III	16 Credits NQF Level 8	NCH 2310	NCH 2410 Community Health Nursing Science III	16 Credits NQF Level 8	NCH 2310
NEP 2409 Nursing Ethos & Professional Practice	16 Credits NQF Level 6	NEP 2112			
NMH 2410 Mental Health	16 Credits NQF Level 6		NMH 2410 Mental Health	16 Credits NQF Level 6	

A.5 EXAMINATION REGULATIONS

See General Information and Regulations Prospectus for detailed examination and promotion regulations.

Examination Admission:
To qualify for examination admission in a course, the continuous assessment mark for part (A) of the course must be at least 40 % and for part (B) (practice) at least 50%.

Pass Requirements:
The sub-minimum exam mark for part A of a course is 40%, provided that a sub-minimum of 40% is obtained in each paper and 50% for part B. To pass a course, a minimum final mark of 50% must be obtained. The weight ratio between continuous assessment and examination mark is 50:50. The ratio between the theoretical and practical examination is 50:50.

Supplementary Examination:
See General Information and Regulations Prospectus
(Regulation7. 20.16(1)(b –c),(Regulation 7.20.17(1-4).

Special Faculty Regulation:
A supplementary examination will be allowed if a student obtained a percentage between 35% and 39% irrespective of how many papers have been written, provided that the final mark is between 45% and 49%.

A.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES

Re-registration:
The minimum duration of this course of study is 4 years, with a maximum period of 6 years for completion. The full curriculum consists of 39 modules in total. A student wishing to pursue his/her studies leading to this diploma will not be permitted to re-register for various courses within the Faculty of Medical and Health Sciences if (s/he has not passed a minimum of course equivalents as indicated below:

FOUR (4) modules should have been passed after the first year of registration;
SIX (6) modules should have been passed after the second year of registration;
EIGHT (8) modules should have been passed after the end of the third year of registration;
TWENTY NINE (29) modules should have been passed after the fourth year of registration.

The above-mentioned implies that a student who does not complete within the prescribed duration of study has two years left to complete the remaining ten (10) modules.

Academic Advancement Rules:
End of year 1: Pass in ½ (i.e. six) of the first year modules equivalents in order to proceed to 2nd year.
End of year 2: Pass in remaining first year modules equivalents plus 5 out of 10 second year modules equivalents in order to proceed to 3rd year.
End of year 3: Pass in remaining second year modules equivalents plus 5 out of 10 third year modules equivalents in order to proceed to 4th year.
End of year 4: Pass in all remaining course equivalents in order to be awarded the diploma.
End of year 6: Pass in all outstanding modules in order to be awarded the diploma

A.7 PRACTICALS
The practical learning experience and clinical teaching prescribed in the (b) section of a course will take place in a variety of health care services. The practice takes place under guidance of lecturers and preceptors. The clinical learning experience must extend over four academic years.

B. DIPLOMA IN MIDWIFERY SCIENCE

B.1 ADMISSION
To register for the Diploma in Midwifery Science, a candidate must comply with the following conditions:
- hold at least a school leaving certificate (with a pass in at least five subjects) or an equivalent qualification;
- hold a three year diploma in General Nursing Science;
- annually, together with his/her application for registration, furnish proof of his/her current registration as a general nurse with the Namibian Nursing Council;
- annually, together with his/her application for registration, furnish proof that he/she holds a post as student midwife in the midwifery service of a Namibian health authority.

B.2 DURATION OF STUDY
The course of study normally extends over a period of TWO YEARS (full-time). All students have to write an entry test on General Nursing Science, Anatomy and Physiology.
Students who pass the test will be exempted from the first year of study. Students who fail the test have to register
For two years.

B.3 CURRICULUM COMPILATION
The curriculum for the Diploma in Midwifery Science (14DMID) has been compiled as follows:

FIRST YEAR (Year courses)		SECOND YEAR (Year courses)	
NPH2220	Physiology	NCH2110	Community Health Nur. Science
NGN2220	General Nursing Science II	NEP2220	Nur. Ethos and Professional Practice
		NMS2220	Midwifery Science
		NSF2220	Scientific Foundations of Nursing

B.4 COURSE CODES AND RESTRICTIONS ON COURSES

NCH2110	Comm. Health Nur. Science		
NEP2220	Nur .Ethos & Prof. Practice		
NSF2220	Scientific Foundations of Nur.	NPH2220	pre-requisite
NPH2220	Physiology		
NMS2220	Midwifery Science		

B.5 EXAMINATION REGULATIONS

See A.5

* Please note that students who are not admitted to Midwifery Science (NMS2220) may not write examination for Scientific Foundations of Nursing (NSF2220).

B.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES

Re-registration: Since the Diploma in Midwifery Science is offered over one year full-time, two (2) courses should have been passed after the first year of registration.

Academic Advancement Rules:

To meet the requirements for the diploma the student must:

- ❖ pass all prescribed courses,
- ❖ perform all prescribed practicals and pass the prescribed examinations,
- ❖ pass the prescribed oral and practical examinations.

B.7 PRACTICALS

The learning experiences and clinical instruction prescribed for the (b) part of Midwifery Science and Community Health Nursing Science I are carried out as follows:

Community Health Nursing Science I (NCH2110) 40 hours
Midwifery Science (NMS2220) 960 hours

The number of hours of ante-natal care, number of deliveries, episiotomies, vaginal examinations and care during the puerperium will not be less than that prescribed from time to time by the Namibian Nursing Board.

C. NATIONAL DIPLOMA IN RADIOGRAPHY (DIAGNOSTIC) (PHASING OUT)

C.1 ADMISSION

To be able to register for the National Diploma in Radiography (Diagnostic), a candidate must comply with the following conditions:

- Hold a valid IGCSE Certificate (with passes in at least five subjects);
- English as a compulsory subject and should normally be obtained (as a second language) grade C or better, or a grade D or better (as a first language);
- Mathematics grade C or D and one Science subject as compulsory subjects;
- A candidate must obtain a minimum of 25 points on the UNAM Evaluation Point Scale to be admitted. However, if the minimum point of 25 is obtained, it does not necessarily ensure admission. Entrance is based upon places available within the Faculty and awarded on the basis of merit;
- Assistant Radiographers who hold a training certificate of MOHSS with a 65% pass in the Radiation Technique I, and Image Recording I, respectively and all of the above will also be considered. Candidates who comply with the above mentioned criteria will be exempted from Radiation Technique I and image Recording I.
- Admission will also be considered for persons who qualify through the Mature Age Entry Scheme;
- Annually produce proof of registration as student with the Allied Health Professions Council of Namibia;
- Candidates must adhere to the regulations as set out at the end of this Faculty Prospectus.

C.2 DURATION OF STUDY

The minimum duration of the course of study is THREE YEARS (full-time) with a maximum period of FIVE YEARS.

C.3 CURRICULUM COMPILATION

The curriculum for the National Diploma in Radiography (Diagnostic) (14DRAD) is compiled as follows:

YEAR 1

Semester1		**Semester2**	
UCE3119	Comm. and Study Skills in English	UCA3119	English for Academic purposes
UCC3109	Computer Literacy (basic)	NAB2112	Applied Biological Science
UCI3109	Contemporary Social Issues	PHC2102	Physics for Radiographers
MCH2101	Health Care Dynamics	PRT2110	Radiation Technique I
NAB2111	Applied Biological Science	PIR2112	Image Recording I
PRT2110	Radiation Technique I		
PIR2111	Image Recording I		

YEAR 2

Semester 1		**Semester 2**	
PAC2211	Apparatus Construction and Utilization I	PAC2212	Apparatus Cons &Utilization I
NAB2211	Applied Biological Science	NAB2212	Applied Biological Science
PIR2211	Image Recording II	PIR2212	Image Recording II
PRT2210	Radiation Technique II	PRT2210	Radiation Technique II

YEAR 3

Semester 1		**Semester 2**	
PAC2311	Apparatus Cons.& Utilization II	PAC2312	Apparatus Cons.. and Utilization II
PRT2310	Radiation Technique III	PRT2310	Radiation Technique III
PMP2311	Microbiology, Paras. & Pathophysiology	PMP2312	Microbiology,Paras.&Pahophysiology
PHE2311	History, Ethics &Professional Practice	PHE2310	History, Ethics &Professional Practice

C.4 COURSE CODES AND RESTRICTIONS ON COURSES

COURSES PRE-REQUISITES/CO-REQUISITES

YEAR 1

UCA3119	English for Academic Purposes	UCE3119	Comm. and Study Skills in English
UCC3109	Computer Literacy		Co- requisites NAB2111
UCS3109	Contemporary Social Issues	PIR2111	Image Recording
NAB2112	Applied Biological Science		
PIR2112	Image Recording		

YEAR 2

PAC2211	Apparatus Construction and Utilization I	PHC2102	Physics for Radiographers
PAC2212	Apparatus Construction and Utilization I	PAC2211	Apparatus Construction and Utilization I
NAB2211	Applied Biological Science II	NAB2111	NAB2112 Co-requisite
PIR2211	Image Recording II	PIR2111	Image Recording I
PIR2212	Image Recording II	PIR2112	Image Recording I
		PRT2110	Radiation Technique I
PRT2210	Radiation Technique II		

YEAR 3

PAC2311	Apparatus Construction and Utilization II	PAC2212	Apparatus Construction and Utilization I
PRT2310	Radiation Technique III	PRT2210	Radiation Technique II
PMP2311/2312	Microbiology, Parasitology &Patho.	NAB2211/2212	Applied Biological Science
PHE2312	History, Ethics & Professional Practice	PHE2311	History, Ethics & Professional Practice
PAC2312	Apparatus Construction	PAC2311	Apparatus Construction

C.5 EXAMINATION REGULATIONS

See A.5

C.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES:

Re-registration:

The duration of this course of study is three years, with a maximum period of five years for completion. The full curriculum consists of 28 modules in total.

FOUR (4) modules should have been passed after the first year of registration.
FOUR (4) modules should have been passed after the second year of registration.
SEVEN (6) modules should have been passed after the third year of registration.
The above-mentioned implies that a student who does not complete within the normal duration of study has two years left to complete the outstanding fourteen (14) modules.

Academic Advancement Rules:

To be promoted to the SECOND year of study the student must have passed at least:

(a) PIR2111 /2112 Image Recording I
(b) PRT2110 Radiation Technique I
(c) NAB2111/2112 Applied Biological Sciences
(d) PHC 2102 Physics for Radiographers

To be promoted to the THIRD year of study the student must have passed at least:

(a) PRT2210 Radiation Technique II
(b) PIR2211/2212 Image Recording II
(c) NAB2211/2212 Applied Biological Sciences II
(d) PAC2211/2212 Apparatus Construction and Utilization I

A student will not be allowed to advance to the next year of study if he/she has failed more than one (1) module.
To obtain the diploma, a pass must be obtained in every written, practical and oral examination.

C.7 PRACTICALS

Practical tuition will take place in the X-ray departments of the Windhoek State Hospital Complex under supervision of qualified personnel. A minimum of 2500 hours practical are required, except for candidates who hold a valid MOHSS Certificate for assistant radiographers, only require 1000 practical hours. Rural placement will take place at Oshakati State Hospital for a period of 4-weeks. **Note that this is compulsory for all 3rd.year students**.

D. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (OPERATING ROOM)

D.1 ADMISSION

To register for the Advanced University Diploma in Nursing Science (Operating Room), a candidate must comply with the following conditions:

- registration as nurse and midwife;
- annually, together with his/her application for registration, furnish proof of his/her current registration as a nurse with the Nursing Council of Namibia;
- annually, together with his/her application for registration, furnish proof that he/she holds a post as registered nurse in the operating service of an approved hospital.

D.2 DURATION OF STUDY

The course of study extends over a period of at least ONE YEAR (full-time).

D.3 CURRICULUM COMPILATION

The curriculum for the Advanced University Diploma in Nursing Science (Operating Room) (14DORA) has been compiled as follows:

NEP4100 Nursing Ethos and Professional Practice
NHM4100 Health Service Management I
NSF4100 Scientific Foundations of Nursing (Special)
NOR4100 Theory and Practice of Operating Room Nursing Science

D.4 COURSE CODES AND RESTRICTIONS ON COURSES

Module/Course	Code	Module/	Semester	Restriction	Course/ code Level
Health Service Management I	NHM4100	1	1-2		
Nursing Ethos and Professional Practice	NEP4100	1	1-2		
Scientific Foundations of Nursing (Special)	NSF4100	1	1-2		
Theory and Practice of Operating Room Nursing Science	NOR4100	1	1-2		

D.5 EXAMINATION REGULATIONS

See A.5

D.6 RE-REGISTRATION AND ACADEMIC ADVANCMENT RULES

Re-registration:

Since the Advanced Diploma is offered over one year full-time, two (2) courses should have been passed after the first year of registration.

Academic Advancement Rules:

To meet the requirements for the diploma the student must:

- ❖ pass all prescribed courses,
- ❖ perform all prescribed practical and pass the prescribed examinations,
- ❖ pass the prescribed oral and practical examinations.

D.7 PRACTICALS

The clinical learning experience and clinical instruction, which is prescribed for Theory and Practice of Operating Room Nursing Science and for Nursing Management is carried out as follows:
Theory and Practice of Operating Room Nursing Science (NOR4100) = 960 hours in an operating room of an approved institution.

E. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (CRITICAL CARE) 14DCCA

E.1 ADMISSION

To register for the Advanced University Diploma in Nursing Science (Critical Care), a candidate must comply with the following conditions:

- registration as a nurse and midwife;
- annually, together with his/her application for registration, furnish proof of (s)he current registration with the Nursing Council of Namibia;
- Annually, together with his/her application for registration, furnish proof that he/she holds a Post as a post-registration student in the service of an approved health institution.

E.2 DURATION OF STUDY

The course of study extends over a period of at least ONE YEAR (full-time).

E.3 CURRICULUM COMPILATION

The curriculum for the Advanced University Diploma in Nursing Science (Critical Care) (14DCCA) has been compiled as follows:

NEP4100 Nursing Ethos and Professional Practice
NHM4100 Health Service Management I
NSF4100 Scientific Foundations of Nursing (Special)
NCC4100 Theory and Practice of Critical Care Nursing Science

E.4 COURSE CODES AND RESTRICTIONS ON COURSES

Module/Course	Code	Module/	Semester	Restriction	Course/ code Level
Health Service Management	NHM4100	1	1-2		
Nursing Ethos And Professional Practice	NEP4100	1	1-2		
Scientific Foundations of Nursing (Special)	NSF4100	1	1-2		
Theory and Practice of Critical Care Nursing Science	NCC4100	1	1-2		

E.5 EXAMINATION REGULATIONS

See A.5

E.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES

Re-registration:

Since the Advanced Diploma is offered over one year full-time, two (2) courses should have been passed after the first year of registration.

Academic Advancement Rules:

To complete the diploma successfully the student must:

- ❖ pass all prescribed courses,
- ❖ perform all prescribed practicals and pass the prescribed examinations,
- ❖ pass the prescribed oral and practical examinations.

E.7 PRACTICALS

The practical learning experience and clinical instruction which is prescribed for Theory and Practice of Critical Care Nursing Science is carried out as follows:

Theory and Practice of Critical Care Nursing Science (NCC4100) = 960 hours in an approved critical care unit.

F. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (HEALTH PROMOTION, CLINICAL DIAGNOSIS AND TREATMENT) 14DHPA

F.1 ADMISSION

To register for the Advanced University Diploma in Nursing Science (Health Promotion, Clinical Diagnosis and Treatment), a candidate must comply with the following conditions:

- registration as a nurse and midwife;
- annually, together with his/her application for registration, furnish proof of his/her current registration as a nurse and midwife with the Nursing Council of Namibia**;**
- have at least two years' experience as a registered nurse.

F.2 DURATION OF STUDY

The course of study extends over a period of ONE YEAR (full time).

F.3 CURRICULUM COMPILATION

The curriculum for the Advanced University Diploma in Nursing Science (14DHPA) has been compiled as follows:

NPH4100	Theory, Philosophy and Process of Primary Health Care
NEP4100	Nursing Ethos and Professional Practice
NSF4100	Scientific Foundations of Nursing (Special)
NHM4100	Health Service Management I
NPT4100	Pharmacotherapy

F.4 COURSE CODES AND RESTRICTIONS ON COURSES

Module/Course	Code	Module/	Semester	Restriction	Course/ code Level
Health Service Management	NHM4100	1	1-2		
Nursing Ethos and Professional Practice	NEP4100	1	1-2		
Pharmacotherapy	NPT4100	1	1-2		
Scientific Foundations of Nursing (Special)	NSF4100	1	1-2		
Theory, Philosophy and Process of Primary Health Care	NPH4100	1	1-2		

F.5 EXAMINATION REGULATIONS

See A.5

F.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES

Re-registration:

Since the Advanced Diploma is offered over one year full-time, two (2) courses should have been passed after the first year of registration.

Academic Advancement Rules:

To complete the diploma successfully the student must:

- ❖ pass all prescribed courses,
- ❖ perform all prescribed practical and pass the prescribed examinations,
- ❖ pass the prescribed oral and practical examinations.

F.7 PRACTICALS

Clinical learning experience is carried out on a daily basis throughout the academic year. These practical take place under the guidance of the medical practitioner and the lecturer and consist of the following:
Estimation, identification, diagnosis, treatment and care of health problems of all systems.

The following disciplines are covered:
Pediatric, Internal Medical Science, Surgery, Obstetrics and Gynecology. Concurrent and terminal evaluation will be done in respect of every student.

G. MASTER OF NURSING SCIENCE (MEDICAL- SURGICAL NURSING): M. N. Sc. 14MNMS

G.1 ADMISSION

To register for the M. N. Sc. degree, a candidate must:

- hold an Honors degree in Nursing Science or an equivalent qualification;
- meet the general regulations for Masters Study at the University of Namibia;
- annually furnish proof of current registration as a nurse with the Namibian Nursing Board.

Please refer to the General Information and Regulations Prospectus for general regulations as far as postgraduate courses of study are concerned.

G.2 DURATION OF STUDY

The M. Cur course of study takes at least TWO YEARS to complete.

G .3 CURRICULUM COMPILATION

The curriculum for the M. N Sc. (14MNMS) consists of the following courses:

FIRST YEAR		SECOND YEAR	
NPT6885	Pharmcotherapy	NMT6885	Research Project
NRM6885	Research Methodology		
NCC6885	Theory and Practice of Critical Care Nursing		

G.4 EXAMINATION REGULATIONS

See General Information and Regulations Prospectus for detailed examination and promotion regulations

H. MASTER OF NURSING SCIENCE: M. N. Sc.

H.1 ADMISSION

To register for the M. N. Sc. degree, a candidate must:

- hold a degree in Nursing Science or an equivalent qualification;
- meet the general regulations for Masters study at the University of Namibia;
- annually furnish proof of current registration as a nurse with the Namibian Nursing Board.

Please refer to the General Information and Regulations Prospectus for general regulations as far as postgraduate courses of study are concerned.

H.2 DURATION OF STUDY

The Master course of study takes at least TWO YEARS to complete.

H.3 CURRICULUM COMPILATION

The curriculum for the M. N Sc. (14MNSC) consists of a thesis on an approved subject in the field of nursing or health aspects.
NMD6885 - Master Thesis

H.4. EXAMINATION REGULATIONS

See General Information and Regulations Prospectus for detailed examination and promotion regulations.

I. MASTERS IN PUBLIC HEALTH14NMPH

I.1 ADMISSION

To register for the Masters in Public Health a candidate must:

- Hold a four year Degree or an equivalent qualification in a health related field.
- Obtained from a recognized institution of higher learning.
- Prospective candidate should have at least 3 years experience in a health – related work.
- All candidates should be computer literate Please refer to the General Information and Regulations Prospectus for general regulations as far as postgraduate courses of study are concerned.
- **prospective candidate should enclose a c.v. with application.**

NB! SELECTION WILL BE DONE TO DETERMINE PLACEMENT FOR STUDENTS.
NOTE THAT THE NUMBER OF PLACEMENTS IS LIMITED.

I.2. DURATION OF STUDY

Minimum TWO years Maximum FOUR years to complete.

I.3 CURRICULUM COMPILATION

The curriculum for the Masters in Public Health (14NMPH) has been compiled as follows:

- ONE academic year of coursework completed by written examination .Subject code (NPH6880)
- SECOND year research and writing of thesis. Subject code (NMP6885)

I.4 EXAMINATION REGULATIONS

See General Information and Regulations Prospectus for detailed examination and promotion regulations.

J DOCTOR OF NURSING SCIENCE: D.N.Sc.14DNSC

J.1 ADMISSION

To register for the Doctor of Nursing Science degree, a candidate must:

- Hold a Masters degree in Nursing Science or an equivalent qualification;
- Meet the general regulations for doctoral study at the University of Namibia;
- Annually furnish proof of current registration as a nurse with the Namibian Nursing Board.
  Please refer to the General Information and Regulations Prospectus for general regulations as far as postgraduate courses of study are concerned.

J.2. DURATION OF STUDY

The degree is not awarded to the candidate unless (s/he has been registered at the University of Namibia for a minimum of two academic years. The maximum study period is four years. Extension will only be granted in exceptional cases and only for one year. A student, who desires an extension, must submit a motivated application to Senate for consideration.

J.3 CURRICULUM COMPILATION

The curriculum for the D.N.Sc. (14DNSC) has been compiled as follows:

- a thesis on an approved subject which deals with any aspect of nursing.

NDT8996 - Doctoral Dissertation

J.4 EXAMINATION REGULATIONS

The examiners of the thesis may, should they deem necessary, call the candidate for an interview before the result is recommended. No person is allowed to report for the examination more than once without approval of Senate.
See General Information and Regulations Prospectus for detailed examination and promotion regulations.

K. CERTIFICATE IN NURSING ACCIDENT AND EMERGENCY NURSING 14CNCC

K.1 ADMISSION

To register for the certificate course in Accident and Emergency nursing;
a candidate must comply with the following conditions:

- Registration as a nurse and midwife
- Furnish proof of his/her current registration with the Nursing Board of Namibia.
- Furnish proof that he/she holds a post as a post registration student in the service of an approved health institution

K.2 DURATION OF STUDY

The course extend over a period of at least 10 weeks (Full-time) Subject code (NAE 1121)

K.3 CURRICULUM COMPILATION

The curriculum for the certificate course in Accident and Emergency Nursing (14CNCC) has been compiled as follows:
Basic Life Support, Immediate Shock
Blunt Chest Trauma
Immediate and short term treatment of head injuries
Immediate and short term treatment of spinal cord injuries
Short- term treatment of spinal cord injuries
Abdominal trauma gastrointestinal emergencies
Obstetrical and gynaecological emergencies
Musculoskeletal emergencies endocrine emergencies
Convulsions
Burns
Poisoning
Selective paediatric emergencies
Malaria
Tetanus
Inter facility transfer
Triage
Mass casualty management
Selected legal and ethical issues
Bites and stings
Abused patients Pain and analgesia
Thermal disorders

K.4 EXAMINATION REGULATIONS

See A5

K.5 REGISTRATION AND ADVANCEMENT RULE

Need to pass the course in full. Candidates may re-register

K.6 PRACTICALS

320 hours in approved clinical unit.

L. CERTIFICATE IN NURSING SCIENCES (OPERATING ROOM)14CNOR

L.1 ADMISSION

To register for the certificate course in Nursing Science (Operating Room), a candidate must comply with the following conditions:

- Registration as a nurse and midwife
- Furnish proof of his/her current registration with the Nursing Board of Namibia.

- Furnish proof that he/she holds a post as a registration nurse in the service of an approved health institution

L.2 DURATION OF STUDY
3 Months (10) weeks subject code (NTT1121)

L.3 CURRICULUM COMPILATION

The curriculum for the certificate course in Nursing Sciences (Operating Room) (14CNOR) has been compiled as follows:
Unit 1: Theatre technique and related medico-legal hazards
Unit 2: Anaesthesia and Recovery room patient care
Unit 3: Theatre technique and related medico-legal hazards
AIMS /GOALS:
Administration and manage an operating room complex
Assist the Anaesthetist with induction, intubation, extubation and the overall care of the patient
Manage and conduct an operative procedure/surgical intervention
Manage and conduct recovery room patient care

L.4 EXAMINATION REGULATIONS
See A5

L.5 REGISTRATION AND ADVANCEMENT RULES
Need to pass the course in full. May re-register

L.6 EVALUATION

THEORY
- Tests
- Assignment
- Case study

PRACTICALS
- Continuous evaluation
- Formal evaluation

M. CERTIFICATE IN NURSING ADVANCED NURSING SKILLS 14NAS

M.1 ADMISSION
To register for the certificate course in Advanced Skills a candidate must comply with the following conditions:
- Registration as a nurse and midwife
- Furnish proof of his/her current registration with the Nursing Board of Namibia.

M.2 DURATION OF STUDY
The course extends over a period of ONE YEAR. Subject code (NAS1120)

M.3 CURRICULUM COMPILATION
The curriculum for the certificate course in Nursing Advanced skills (14NAS) has been compiled as follows:
- Interpretation /analysis of laboratory results
- ECG interpretation
- Wound Care
- Radiography imaging

M.4 EXAMINATION REGULATIONS
See A5

M.5 REGISTRATION AND ADVANCEMENT RULE
Need to pass the course in full
Candidates may re - register

M.6 PRACTICALS
Minimum 50hours accompanied learning.

SYLLABi / course descriptions

AA. UNIVERSITY DIPLOMA IN COMPREHENSIVE NURSING AND MIDWIFERY SCIENCE

AA.1 HEALTH CARE DYNAMICS

MODULE TITLE: HEALTH CARE DYNAMICS
Code: MCH 2101
NQF Level: 5
Credits: 8
Contact Hours: 2 lecture periods per week for 14 weeks
Prerequisites: Nil but it is a faculty core course
Module Assessment:
To obtain admission to the examination, a student should obtain 40% in the continuous assessment, and pass the examination with 50%.
Final examination:
A two hour written examination is conducted at the end of the semester.
Module Description:
Health Care Dynamics is a semester faculty core course. It aims at introducing the student to the art and science of professional practice in Health Science. It is offered in the first semester. The module is divided into two modules.
Content:
Health Care Dynamics is a semester faculty core course. It aims at introducing the student to the art and science of professional practice in Health Science. This is the faculty core course offered in the first semester over a period of 14 weeks (2 periods per week). The course is divided into two modules.
Module I: Professional Practice (7 weeks)
Module II: The Caring Relationship (7 weeks)

AA.2 CONTEMPORARY SOCIAL ISSUES

MODULE TITLE: CONTEMPORARY SOCIAL ISSUES
Code: UCI 3109 (CSI3429)
NQF Level: 4
Credits: 8
Contact Hours: 2 lecture periods per week for 14 weeks
Prerequisites: Nil, but it is a Core Curriculum module for all first-year students

Module Assessment:
A student is expected to complete three assignments; i. e., one assignment in each unit to make-up for the Continuous Assessment (CA) mark. CA attributes to 50% of the total marks At least two assignments and a test should be administered during the semester.
The final examination comprises of a 2-hour examination paper adding up to 50%.The question papers consist of one-third of each unit.
Module Description:
This module is divided into three units and is taught over a period of national and global ethics. It helps the students to reflect on the social moral issues, to discover themselves, in learner-centred, contextual, religious and life related settings, and also stimulates the learners for critical thinking and help them to appreciate their values and attitudes.
The module also orientates students to the epidemiology of HIV/AIDS; the prevalence of the disease; the social factors that contribute to the spread of the disease; the impact of HIV/AIDS on students; and the prevention of HIV/AIDS among students by means of paradigm shifting and behaviour change. The module also aims at making students aware, as well as sensitizes them towards gender issues and how such issues affect our society, Sub-Region and continent at large.
Module Content
Contemporary Social Issues is a compulsory UNAM core course for all the first year students. It is divided into three units, namely:

- Orientation to Social Ethics
- HIV/AIDS
- Gender Issues

Each of these units is allocated 8-10 lectures over a teaching period of 4-5 weeks. The class is divided into five groups so that students can choose one which suits them most. Students can, thus, register for the course with any of the following Faculties.

AA.3 COMPUTER LITERACY

MODULE TITLE: COMPUTER LITERACY
Code: UCC 3109 (UCLC3409)
NQF Level: 5
Credits: 8
Contact Hours: 1 lecture period & 2 practical periods per week for 14 weeks
Prerequisites: Nil
Assessment: Students are assessed on a continuous basis, i.e., 100% Continuous Assessment (100% CA). They do not have an end of year examination.
Module Description:
The Basic Computer Literacy Course is a semester course.

Content
All content in this course will be covered in 42 hours.

- Introduction of the Personal Computer

- Components of the computer
- Practical Introduction to Microsoft Widows
- Introduction to Microsoft Word
- Introduction to Microsoft Excel
- Introduction to Microsoft Access
- Introduction to Microsoft PowerPoint
- Introduction to Internet Services

AA.4 COMMUNICATION AND STUDY SKILLS IN ENGLISH

MODULE TITLE: COMMUNICATION & STUDY SKILLS FOR NURSES
Code: **UCN2110 old course (** ULCE 3419 equivalent)
NQF Level: 5
Total Credits: 32
Contact Hours: 4 lecture periods per week
Prerequisites: Nil but is a Faculty Core Curriculum Course
Module Assessment:
Students will be assessed on a continuous basis. Students need to attain a minimum of 40% continuous assessment mark in order to be admitted to the final examination. Final examination is a three hour paper comprising of reading and writing components each amounting to 50% (total = 100%). Weighting of 60% is given to the Continuous Assessment marks (CA marks) 40% is given for the examination marks; i. e. CA marks + Examination marks must add up to 50%.
Module Description:
Communication and Study Skills in English is a core curriculum one year module designed for first year students. The course helps students develop academic reading, writing, oral presentation and study skills needed to meet the demands of university courses. It provides students with opportunities to practise the language skills needed at work place.
Content:
- Reading
- Writing
- Speaking
- Listening

AA.5 ENGLISH FOR ACADEMIC PURPOSES

Code: ULEA 3419 (UCA3119 equivalent)
NQF Level:
Credits:
Contact Hours:
Prerequisites:
Module
- Academic reading; critical reading
- Developing all reading skills
- Academic listening and note- taking
- Academic speaking – individual oral presentations
- Academic writing, library research – based essay, interpretation and explanation of graphics in writing and academic summaries.

Semester1

AA.6 ENGLISH COMMUNICATION AND STUDY SKILLS

MODULE TITLE: ENGLISH COMMUNICATION FOR NURSING SCIENCE
Code: ULCE3419
Contact time: 56hours (4L/ Week)
Assessment: Continuous 60% (test)
Pre- requisites: C in IGCSE English
Paper 1: 2 hours

Content:
Language functions (Language use in various context)
- Basic reading; skimming and scanning
- Writing sentences and paragraphs
- Listening and taking short notes-General speaking
- Library information skills
- Basic concepts of language usage
- Dictionary skills
- Vocabulary development
- Sentences, paragraphs, punctuation, input linking ideas
- Introduction to reading skills; skimming and scanning, and understanding of text
- Introduction to general listening
- Introduction to general speaking
- Development and application of all four skills (wring, reading, speaking and listening)

Semester2

AA.7 APPLIED BIOLOGICAL SCIENCES

Semester 1

MODULE TITLE:	**APPLIED BIOLOGICAL SCIENCES I**
Code:	NAB 2111
NQF Level:	5
Credits:	16
Contact Hours:	4 lecture periods & 20 hours of practical experience per week
Prerequisites:	Nil

Module Assessment:
Eight evaluations will be conducted per annum and for a student to qualify for entry to the examination, s/he must obtain at least a minimum of 40% on average. Tests will also be given on a regular basis. These may be in form of written, oral or practical. Final examination will comprise of two hour written paper.
Final examination:
Written examinations are conducted at the end of every semester. A year mark of 40% in theory and 50% in practical must be obtained for admission to the examination. One, three-hour paper is written at the end of the semester. The weight ratio between the theory and practical examination mark is 50:50.
Module Description:
Applied Biological Sciences I, NAB 2111 is a semester module divided into 8 units: It is aimed at equipping the student with anatomical knowledge as well as biophysical principles in order to apply these in their daily nursing activities in a health Facility or community setting.
Content:
Applied Biological Sciences NAB 2111 is a semester course. The course is divided into 8 units:

Unit 1: The introduction to human body and definition of commonly used terms
U**nit 2:** The Cellular level of human body/Cellular level of organization
Unit 3: The Types of Tissue/the tissue level of organization
Unit 4: The Integumentary system
Unit 5: The skeletal system
- Skeletal tissue
- Axial skeleton
- Appendicular skeletol

Unit 6: The Articulations
Unit 7: The Muscular system
Unit 8: The Digestive system

Semester 2

MODULE TITLE:	**APPLIED BIOLOGICAL SCIENCES I**
Code:	NAB 2112
NQF Level:	5
Credits:	16
Contact Hours:	4 lecture periods & 20 hours of practical experience per week
Prerequisites:	Applied Biological Sciences I - NAB 2111

Module Description:
Applied Biological Sciences NAB 2112 is a semester module divided into seven units:
Module Assessment:
Eight evaluations will be conducted per semester and for a student to qualify for entry to the examination, s/he must obtain at least a minimum of 40% on average. Tests will also be given on a regular basis. These may be in form of written, oral or practical.
Final examination:
Written examination is conducted at the end of every semester. One, three-hour paper is written at the end of the year. The weight ratio between the theory and practical examination mark is 50:50. Final examination will comprise of two hour written paper
Module Description:
Applied Biological Sciences II, NAB 2112 is a semester module divided into 7 units: It is aimed at equipping the student with anatomical knowledge as well as biophysical principles in order to apply these in their daily nursing activities in a health Facility or community setting.
Content:
Applied Biological Sciences NAB 2112 is a semester course.
This course is divided into seven units:
Unit9: The Special Senses
Unit 10: The Nervous System and the Autonomic Nervous System
- The spinal cord and spinal nerves
- The brain and the cranial nerves

Unit 11: The Cardiovascular System
- The blood
- The heart
- The blood vessels and routes

Unit 12: The Lymphatic System and immunity
Unit 14: The Uro genital System
- Urinary system
- Reproductive system

Unit15: The Endocrine System

Semester 1

MODULE TITLE:	**APPLIED BIOLOGICAL SCIENCES II**
Code:	NAB 2211/2212
NQF Level:	6
Credits:	32
Contact Hours:	4 Lecture periods & 20 periods of practical work per week
Prerequisites:	Applied Biological Sciences I - NAB 2111 & NAB 2112

Module Assessment:
At least six evaluations will be carried out during the year, (i.e., three tests will be conducted in each semester). In order to qualify for entrance to the examination, a student has to obtain an average of 40%. In order to pass the examination, must obtain 50% or more.
Module Description:
Applied Biological Science II is a combination of the physiology and Biochemical aspects of nursing and Radiography. It is designed to prepare the student to develop an understanding of the "normal values" in order to differentiate them from the "abnormal values."
Content:

Physiology and Biochemistry

Unit 1: The biochemical aspects of life
Unit 2: Cardiovascular
Unit 3 Respiratory
Unit 4: The cell
Unit 5: The tissues
Unit 6: The integumentary system
Unit 7: The skeletal tissue
Unit 8: The muscle tissue

Semester 2
Unit 9: The sensory system
Unit10: The nervous system
Unit11: The endocrine system
Unit12: The lymphatic and immune system**:**
Unit13: The digestive system
Unit14: The renal system and fluid balance
Unit15: The reproductive system

APPLIED BIOLOGICAL SCIENCE III

Semester 1

MICROBIOLOGY AND PARASITOLOGY

MODULE TITLE:	**APPLIED BIOLOGICAL SCIENCES III**
Code:	NAB 2311 & 2312
NQF Level:	6
Credits:	32
Contact Hours:	4 Lecture periods and 20 hours for practical work per week
Prerequisites:	Applied Biological Sciences II NAB 2211 & NAB 2212

Module Assessment:
Students will be evaluated through written and oral tests, practical tests, case studies and assignments. A student is expected to obtain a minimum of 40% of year mark in theory and a minimum of 50% of year mark in practice to qualify for the final examination. Final Examination will comprise of 2 x 3hour papers. The weight ratio between the theory and practical examination mark is 50:50.

Module Description:
The module is aimed at providing a nurse practitioner and radiographer to apply some of the microbiological principles in order to prevent diseases and to maintain a healthy environment for the patient. It is also aimed at fostering sound principles in pharmacology. It is planned as a foundation to help students to upgrade themselves and also to master new and additional information. Emphasis will be placed on practical application; where possible laboratory experiences will be provided.
The course is divided into two modules:

Microbiology and Parasitology
Unit 1: Introduction to microbiology and parasitology.
Unit 2: Types of microorganisms and parasites
Unit 3: Human and microbial interaction.
Unit 4: Control of microbial growth.
Unit 5: Reaction of the body to microbial invasion.
Unit 6: Defence mechanisms/immunology.
Unit 7: Epidemiology and transmission of diseases.
Unit 8: The role of the nurse in the interpretation of laboratory results.

Semester 2
Pharmacotherapy

Unit 1: Introduction to pharmacology.
Unit 2: The role of the nurse in drug/medicines administration.
Unit 3: Judicious and rational prescribing.
Unit 4: Drugs affecting cardiovascular system.
Unit 5: Drugs affecting gastro-intestinal tract.
Unit 6: Antiretroviral Drugs
Unit 7: Analgesics.
Unit 8: Psychoactive substances (Psychiatry).
Unit 9: Drugs and the nervous system.
Unit10: Endocrine system.
Unit 11: Chemotherapeutic agents and antibiotics.
Unit 12: Biological medicines.
Unit 13: Tropical diseases and antihelmintics.
Unit 14: Toxicology.
Unit 15: Disinfectants and insecticides.
Unit 16: Drugs and the eye.
Unit 17: Diuretics.
Unit 18: Emergency/critical care drugs.

AA.8 COMMUNITY HEALTH NURSING SCIENCE I

MODULE TITLE: COMMUNITY HEALTH NURSING SCIENCE I

Code: NCH 2110
NQF Level: 5
Total Credits: 32
Contact Hours (theory): 4 per week
Contact Hours (practical): 20 per week
Total Contact Hours: 24 per week
Prerequisites: None

Assessment

To assess the knowledge obtained from each unit, students will be subjected to writing of regular tests during the year and an end of year examination. In the event of a student missing to write a test, it is the student's own responsibility to arrange with the lecturer concerned when she/he can write the missed test.

Students are also required to carrying out all assignments given.

Closing dates for submitting the assignments are communicated to students.

Content

The course is divided into two sections:

- Section A: Theoretical information on different units
- Section B: Professional skills necessary to function in any health unit

Section A: Theoretical information on different units

The theoretical component is divided into 8 units:
Unit**1:** Introduction to Primary Health Care (15 Hours)
Unit 2: Health and Development
Unit 3: History of Health Care in Namibia
Unit 4: Health Care Delivery System in Namibia (Implementation of Primary Health Care in Namibia)
Unit 5: Basic Concepts, Principles and Approaches to Community Health
Unit 6: Environmental Health
Unit 7: Introduction to Communicable Diseases
Unit 8: Introduction to Health Education, Information and Communication
Unit 9**:** Communication

MODULE TITLE: COMMUNITY HEALTH SCIENCE II

Code: NCH 2210
NQF Level: 6
Credits: 32
Contact Hours: 4 lecture periods & 20 practical hours per week
Prerequisites: Community Health Science I - NCH2110

Module Assessment:

Continuous Assessment **t**heory 40% and practical 50%. A student will also be assessed on two procedures during the last two weeks of clinical allocation.

Final examination:

Written and practical examinations are conducted at the end of every academic year. One, three-hour paper is written at the end of the year. The weight ratio between the theory and practical examination mark is 50:50.

Module Description:

This course is aimed at equipping the second year student nurse with adequate knowledge, appropriate skills and positive attitudes to provide comprehensive community health care. The student will be expected to assume responsibility for all actions taken. The course also aims at

equipping student nurses with sufficient knowledge of HIV/AIDS and its management in Namibia, so as to enable them to provide quality care to patients with HIV/AIDS

Theory (Component A)

The theory component has eleven units:
Unit 1: Community Assessment.
Unit 2: Introduction to infection.
Unit 3: Health assessment of mother and child within the family and community context
Unit 4: Development of a child under 5 year.
Unit 5: Growth monitoring and nutrition of a child under 5 year
Unit 6: Paediatric HIV infection
Unit 7: The Impact of HIV/AIDS on the Family and the Community
Unit 8: Diseases affecting children under 5 years of age.
Unit 9: Family Planning with Emphasis on HIV/Aids on the Family and Community
Unit 10: Educational approaches, techniques and materials
Unit 11: Planning and conducting a Health Education or *teaching* session.

Practice (Component B)
During this period, the student will be expected to:
- Conduct health education sessions/health talks on predetermined topics
- Carry out clinical procedures as set out in the practical register
- Conduct visits to children's institutions
- Carry out a family study project. The reports on the different visits will be submitted as project assignments on the predetermined dates
- Participate in a family planning session

MODULE TITLE: COMMUNITY HEALTH NURSING SCIENCE III
Code: NCH 2310
NQF Level: 6
Credits: 32
Contact Hours: 4 lecture periods and 20 practical periods per week
Prerequisites: Community Health Nursing Science II NCH 2210

Module Assessment:
The student will be evaluated on a continuous basis. Written and oral tests will be given as well as projects. Final Examination: Two three hour written papers **(**NCH Paper I and NCH Paper II). For the student to qualify for examination s/he must obtain 40% in theory and 50% in practical CA The weight ratio between theory and practical examination mark is 50:50

Module Description:
The module is designed to equip the student with adequate knowledge, appropriate skills and positive attitudes to provide comprehensive health care to the school child, adolescent and the elderly client. It is also designed to equip the student with skills to utilise the community development process for health development activities. The module is aimed at equipping the student with the necessary knowledge and skills needed to function professionally in any field in which she may be working. (Community development, school child, teenager, elderly and communicable diseases)

Unit 1: School child and adolescent health.
Unit 2 Sexual transmitted diseases.
Unit 3: HIV/AIDS.
Unit 4: Tuberculosis.
Unit 5: Other Communicable Diseases.
Unit 6: The elderly
Unit 7: Mobilization and involvement of the community for health and development action.
Unit 8: How to organize and facilitate a community.
Unit 9: Development of plans and strategies for implementation of interventions
Unit 10: Conduct comprehensive intervention activities.
Unit 11: Monitoring and evaluation.

Practical (B Component)
- Students will be placed in different community health centres and instructed to develop skills needed to
  - Perform a full physical examination on aged adult and child
  - Make a nurse diagnosis
  - Prescribe the appropriate action and/or treatment
- Students will be expected to visit an old age home and will also be sent to the tuberculoses hospital. The purpose of this project is to
  - Upgrade the health status of the elderly
  - Promote family involved and responsibility in health matters
  - Give health education
- Students will be expected to participate in school health services; the aim is to enable them develop skills to

MODULE TITLE: COMMUNITY HEALTH NURSING SCIENCE IV

Code:	NCH 2410
NQF Level:	7
Total Credits:	32
Contact Hours (theory):	4 per week
Contact Hours (practical):	24 per week
Total Contact Hours:	28 per week
Prerequisites:	Community Health Nursing Science III NCH 2310

Module Assessment:
A student must obtain 40% of the year mark in theory and 50% in practical assignments to qualify for admission to the final examination. Final Examination will comprise of one 3 hour paper. The weight ratio between the theory and practical examination mark is 50:50.

Content:
The course is divided into two sections:
Section A: Theoretical information on different modules
Section B: Professional skills (practical) necessary to function in any health setting

Section A:

A) Research Methodology, Epidemiology and Disease Surveillance

This section consists of three modules

1. Research: Module

- **Unit 1:** Research
- **Unit 2:** Terminology, Meaning and Value of Research in Nursing
- **Unit :** Research and Theory
- **Unit 5:** Ethical Considerations in the Conduct of Research
- **Unit 6:** An Overview of the Research Process
- **Unit 7:** Selecting/Identifying Nursing Research Problems
- **Unit 8**: The Literature Review
- **Unit 9:** Refining and Defining the Research Questions or Formulating a Hypothesis
- **Unit 8:** Quantitative Research Designs
- **Unit 9:** Non-Traditional and Qualitative Research Designs
- **Unit 10:** Sampling
- **Unit 11:** Data Collection
- **Unit 12:** Data Quality
- **Unit 13:** Data Analysis
- **Unit 14:** The Report Writing and Critical Evaluation of a Scientific Research

2. Epidemiology Module

- **Unit 1:** Epidemiology: What is it about?
- **Unit 2:** Epidemiological Methods – Health Information System as a Tool for Practice
- **Unit 3:** Epidemiological Surveillance

3. Food and nutrition Module:

- **Unit 1:** Basic Concepts Related to Food and Nutrition
- **Unit 2**: Factors That Influence Food and Nutrition in Namibia
- **Unit 3**: Nutritional Problems of Public Health Importance in Namibia Including Nutritional Management of HIV/AIDS
- **Unit 4:** Strategies to Promote Food Supply and Availability and Good Nutrition
- **Unit 5:** Prevention and Treatment of Nutritional Problems of Public Health Importance in Namibia

The course in research and epidemiology will enable the student to conduct a mini research study while based at a community institution for her/his "B" mark.

AA.9 NURSING ETHOS AND PROFESSIONAL PRACTICE ETHOS AND PROFESSIONAL PRACTICE (1a) (Introduction)

Semester2

MODULE TITLE:	**NURSING ETHOS AND PROFESSIONAL PRACTICE**
Code:	NEP 2112
NQF Level:	5
Total Credits:	16
Contact Hours:	4 lecture periods per week
Prerequisites:	Nil

Module Assessment:
A student will be expected to write tests and complete independent assignments. A student must obtain an average of 40% in order to qualify for admission to examination. In order to obtain a pass in the final examination a student must obtain a minimum of 50%.

Module Description:

This course aims at introducing the student to the philosophical, historical, multicultural, ethical, legal foundations of nursing/midwifery practice and the professional dimensions of nursing. These dimensions relate to the care of patients suffering from major diseases in Namibia, with special reference to HIV/AIDS/STIs/TB/Malaria. The course attempts to prepare the student to become a true professional person by internalizing the norms and values of the profession which are important

Content:
The course is divided into two parts. The first part of the course NEP 2112 (1a), is a semester course taught during the first year of study (semester II), and the second part is also a semester course, (1b) taught in the final year/ fourth year semester I.

NEP2112 is divided into six Units:
Content:

- **Unit 1:** History of nursing
- **Unit 2:** The Philosophical Foundations of Nursing
- **Unit 3:** Nursing Within the Multi-Cultural Context
- **Unit 4:** The Ethical Foundations of Nursing
- **Unit 5**: Professional Practice
- **Unit 6:** The Legal Foundation of Nursing

NURSING ETHOS AND PROFESSIONAL PRACTICE (1B)

MODULE TITLE: **NURSING ETHOS AND PROFESSIONAL PRACTICE**
Code: NEP 2409
NQF Level: 5
Credits: 16
Contact Hours: 4 lecture periods per week
Pre-requisites: NEP 2112
Module Assessment:
A student must write all the scheduled and arranged tests to accumulate a continuous assessment mark and to obtain admission to the examination. The student's accumulated assessment mark and the examination mark have a 50:50 weight in the calculation of the final mark.

Module Description:
The module is designed to train students to become professional persons and should thus, have a clear understanding of their duty towards patients, the service provider and themselves. The content is interrelated and has practical reference to the care that is given to patients in the different units where students practise nursing. In order to master this course, a student is expected to understand

Semester1

Content:
Unit I: The Ethical Foundation of Professional Practice
Unit 2: The Legal Foundation of Professional Nursing Practice
Unit 3: The Duty of the Professional Nurse Practitioner
Unit 4: Cultural Care in Professional Nursing Practice

AA.10 GENERAL NURSING SCIENCE

GENERAL NURSING SCIENCE I

MODULE TITLE: **GENERAL NURSING SCIENCE I**
Code: NGN 2110
Year Module
General Nursing Science I (Basic Nursing Skills)
Paper 1: 3 hours
The course is divided into eight units:
Unit 1: Health and Illness Continuum/Concepts of Health and Disease
Unit 2: Record keeping
Unit 3: Provision of Safe Environment
Unit 4: Basic Human Needs
Unit 5 Basic Practical Nursing Skills
Unit 6: The Nursing Process
Unit 7: Self Care Nursing
Unit 8: Basic First Aid

GENERAL NURSING SCIENCE II

MODULE TITLE: GENERAL NURSING SCIENCE II

Code: NGN 2210
NQF Level: 5
Total Credits: 32
Contact Hours: 4 lecture periods & 20 hours of practical experience per week
Pre-requisites: General Nursing Science I (NGN 2110)

Module Assessment:
The student is evaluated through continuous evaluation in both theory and clinical practice. The student is evaluated on at least five clinical procedures related to Medical, Surgical and Paediatric Nursing Care, during their placement in the clinical area. The student will also be subjected to writing at least five tests during the course of the year. Assignments will also be given as part of theoretical and practical assessment. A student is expected to have a minimum of 40% of year mark in theory to qualify for the final examination and a minimum of 50% of year mark in practice to qualify for the final examination. Final examination consists of a written examination of two papers (three hours each) of theory and simulated practical examination and problem solving for clinical practica . The weight ratio between theory and practical examination mark is 50:50

Module Description:
The module involves integration of knowledge of anatomical structures, physiology of body systems under study and the pathological processes involved in the evolution of each disease. The module also covers medical and surgical interventions for treatment (to an extent pharmacological actions), and specific nursing care for specific diseases (i.e. physical, psychological and social), at primary, secondary (curative care) and tertiary prevention or rehabilitation levels of the comprehensive health care approach.

Content:
General Nursing Science II Course comprises of four modules:

- Adult Medical Nursing Care (52 hours)
- Dermatological Nursing Care (6 hours)
- Adult Surgical Nursing Care(30 hours)
- Paediatric medical and surgical Nursing Care (28 hours)

It encompasses both theoretical and practical components**:**

A Component – Theory
B Component – Clinical/Practical

GENERAL NURSING SCIENCE III

MODULE TITLE: GENERAL NURSING SCIENCE III

Code: NGN 2310
NQF Level: 6
Credits: 32
Contact Hours: 4 lecture periods & 20 clinical per week
Prerequisites: General Nursing Science II NGN2210; NAB 2211/2212

Module Assessment:
Evaluation will be continuous in form of tests, case studies, projects and OSCEs. A student is expected to have a minimum of 40% of year mark in theory and a minimum of 50% of year mark in practical to qualify for the final examination Final Examination will comprise of 2 x 3hour papers. The weight ratio between the theory and practical examination mark is 50:50.

Module Description:

The module is designed to equip the student with knowledge and skills so that the student develops affective, psychomotor and cognitive skills to enable her/him to provide comprehensive nursing care with respect to specialised areas of health care pertaining to General Nursing Science III.

Content:
Paper I
Will comprise of the following units:

- Unit 3: Urinary and Reproductive Systems
- Unit 4: Neurology
- Unit 8: Operating Room Nursing Science

Paper 2
Will comprise of the following units:

- Unit 1: Ear, Nose and Ophthalmology
- Unit 2: Orthopaedics
- Unit 5: Gerontology
- Unit 6 & 7: Oncology

Clinical OSCE
Will comprise of the following:

- Specific procedures regarding different units
- Procedures to enable the student to apply theoretical work in a clinical situation
- Application of theoretical work into the community setting

- Module 7**:** Mobilization and involvement of the community for health and development action

Clinical learning experience regarding neurology: nursing methodology, unconscious patient, diagnostic tests. Clinical learning experience regarding orthopedics: nursing methodology, care: wounds, fractures and skin. Maintenance of sensory function and diagnostic tests. Legal and ethical aspects with regard to the implementation of scientific nursing. Clinical learning experience regarding the reproductive and urinary system: nursing methodology and wound care. The reproductive and urinary system: nursing methodology and wound care. Clinical learning experience regarding oncology nursing: cognitive, psychomotor, affective skills. Operating room nursing: cognitive, psychomotor, affective skills, legal and ethical aspects.

GENERAL NURSING SCIENCE IV

MODULE TITLE: GENERAL NURSING SCIENCE IV
Code: NGN 2410
NQF Level: 7
Credits: 32
Contact Hours: 4 lecture periods and 20 practical experiences per week
Prerequisite: General Nursing Science III NGN2310

Module Assessment:
A student must obtain 40% of the year mark in theory and 50% in practical assignments to qualify for admission to the final examination

Final Examination will comprise of one 3 hour paper
The weight ratio between the theory and practical examination mark is 50:50.

A Component: Theory
The theoretical part of it is divided into four units:

Module 1: Management
Module Description
The content of the curriculum has two components: A and B components.

A Component: Theory
The theoretical part of it is divided into four units:

Unit 1: Management
- **Unit 2:** First Aid and Trauma Management
- **Unit 3:** Disaster Management
- **Unit 4:** Management of HIV/AIDS Patients/Clients in any Health Care Setting and Home

B Component: Application of theory in clinical setting (any health facility)
Nursing Management

B Component: Application of theory in clinical setting (any health facility)
Nursing Management
- Policy guidelines
- Problem solving in unit
- Duty schedule (off-duties)
- Stock-taking in unit
- Condemning of stock
- Repair of medical equipment
- Emergency trolley and resuscitation
- Ward rounds – nurses/doctors
  - Nursing care plans
  - Auditing of nursing care records
- Evaluation of patient records
- Control of Schedule Substances & Control of medications (in unit)
- Peer group teaching or guidance
- Infection control (in a unit)
- Ward inspection
- Ward HIV/AIDS Policy Guideline & Ward Disaster plan

AA.11 MENTAL HEALTH

MENTAL HEALTH (INTRODUCTION)

MODULE TITLE: MENTAL HEALTH
Code: MNH 2410
NQF Level: 6
Credits: 32
Contact Hours: 4 lecture periods and 20 practical hours per week
Prerequisite: Nil

Module Assessment:

A total of six tests will be written throughout the academic year. The six tests will give the aggregate for the year mark. The minimum average to enter the examination is 40% theory and 50% practical components. One or two tests may be substituted by assignments. At the end of each term a big test will be written to prepare students for the examination style of questions. The examination will add up to 100% (100 marks) and the duration will be three hours. The minimum pass marks are 40% for theory and 50% for practical: however, in order to proceed to the final year of study, the student would require a 50% total average.

Module description:
This module is aimed at introducing the student to mental health and equipping her/him with knowledge and skills to enable her/him understand human behaviour so as to promote mental health, prevent mental illness within the community setting following the PHC approach, and provide comprehensive nursing care to persons suffering from mental illness and to support the family. The module also aims at equipping the student with communication and interpersonal relationship skills in the context of prevention and care of those who are HIV – positive or have HIV/AIDS.

Modules:
Unit 1: Concept of Mental Health and its determinants.
Unit 2: Mental illness. and its Manifestations
Unit 3: Nursing Skills Specific to Mental Health
Unit 4: Common Mental Disorders in Namibia
Unit 5: Legal Aspects Regarding Mental Illness
Unit 6: Group work as a tool in Mental Health
Unit 7: Taking Care of Families in Mental Health Nursing
Unit 8: Community base Mental Health Cognitive, psychometric and affective skills regarding assessment, nursing mental ill person, counselling and therapeutic activities. A total of six tests will be written throughout the academic year. The six tests will give the aggregate for the year mark. The minimum average to enter the examination is 40% theory and 50% practical components.

Practical Examination: 30 Minutes

AA.12 MIDWIFERY SCIENCE

MIDWIFERY SCIENCE I

Module 1
Paper 1: 3 hours

Content:
The course is divided into four units:

Unit 1: Reproductive Health Services and Applied Anatomy and Physiology of Female Reproductive System
Unit 2: Pregnancy and Antenatal Care
Unit 3: Normal Labour
Unit 4: Normal Puerperium and Care of the Newborn

Assessment:
Students will be evaluated on a continuous basis through oral tests and practical tests, community projects, Interviews and group discussions.

Module 2: Antenatal care.
Pain relief

Paper 2: 3 hours

Content
The course is divided into four units:

Units 1: Reproductive Health Services and Applied Anatomy and Physiology of Female Reproductive System
Units 2: Pregnancy and Antenatal Care
Units 3: Normal Labour
Units 4: Normal Puerperium and Care of the Newborn Ethical and legal aspects.

Assessment:
Students will be evaluated on a continuous basis through oral tests and practical tests, community projects, Interviews and group discussions.
Practical Examination: 30 minutes

Cognitive, psychomotor and affective skills; antenatal-care; history taking; examination; antenatal exercises; counselling and a diagnostic test of the pregnant woman; ethical and legal aspects. Cognitive, psychomotor and affective skills; normal labour; normal puerperium; ethical and legal aspects; partograph; immediate care of the neonate; examination of a placenta; advise; postnatal exercise.

MIDWIFERY SCIENCE II

MODULE TITLE:	**MIDWIFERY SCIENCE II**
Code:	NMS 2310
Credits:	32
NQF Level:	6
Contact Hours:	4 Lecture Periods And 20Practical Hours per week
Prerequisites:	Midwifery Science I NMS 2210

Module Assessment:
Students will be assessed on a continuous basis through oral and practical tests, community projects, and group discussions. A student is expected to have a minimum of 40% of year mark in theory and a minimum of 50% of year mark in practice to qualify for the final examination. Final Examination will comprise of 2 x 3hour papers. The weight ratio between the theory and practical examination mark is 50:50.

Module Description:
This module is designed to enable the student to identify and manage emergencies and abnormalities during labour, puerperium and in the newborn baby within the cultural, ethical and legal scope of practice at all levels.

Content:
The course is divided into five modules:

Unit 1: Pregnancy at Risk
Unit 2: Prolonged and Obstructed Labour
Unit 3: Malpositions and Malpresentations during Labour and Emergencies in Labour
Unit 4: Complications during Puerperium; Newborn at Risk and the Sick Infant
Unit 5: Healthy Mothers; Healthy Babies; Prevention of Mother-To-Child -Transmission of HIV and Aids (PMTCT) In Namibia

AA.13 SOCIOLOGY OF HEALTH

MODULE TITLE:	**SOCIOLOGY I**
Code:	SOC 2210
NQF Level:	5
Credits:	32
Contact Hours:	4 per week
Prerequisites:	Sociology I SOC 2210

Module Assessment:
Two written tests and one assignment. Each test will add up to 30% of the course mark; the assignment will add up to 40% of the course mark; tests and assignments together will add up to 60% of the final mark The final examination will comprise of two written papers (Paper I & Paper II); each paper of three hours duration.

Module Description:
This module is divided into two parts namely, Social Research and Population Development. It is designed to encourage critical thinking about how sociological knowledge is generated and validated. It helps students to identify different sociological and research paradigms; and to draw distinctions between different types of social research, gain exposure to different research methods, procedures and techniques and to enhance their writing skills.

It also introduces students to the main interrelationships between population dynamics, socio-economic development and health. It is intended to provide nursing students with knowledge and understanding of how population dynamics and socio-economic development are both causes and consequences of health. Specifically it aims to impart knowledge on: basic concepts and indicators of population and development; population and development theories, population policy and the role of structural determinants of health, such as poverty, education, employment, urbanization and inequality.

SOCIOLOGY II

MODULE TITLE:	**SOCIOLOGY II**
Code:	SOC 2310
NQF Level:	5
Credits:	32
Contact Hours:	4 per week
Prerequisites:	Sociology I SOC 2210

Module Assessment:
Two written tests and one assignment. Each test will add up to 30% of the course mark; the assignment will add up to 40% of the course mark; tests and assignments together will add up to 60% of the final mark. The final examination will comprise of two written papers (Paper I & Paper II); each paper of three hours duration.

Module Description:
This module is divided into two parts namely, Social Research and Population Development. It is designed to encourage critical thinking about how sociological knowledge is generated and validated. It helps students to identify different sociological and research paradigms; and to draw distinctions between different types of social
research, gain exposure to different research methods, procedures and techniques and to enhance their writing skills.

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Content:
Sociology II is a continuation of Sociology I and is comprised of two units:

- **Unit 1:** Social Research
- **Unit 2:** Population and Development

BB DIPLOMA IN MIDWIFERY SCIENCE

BB.1 COMMUNITY HEALTH NURSING SCIENCE NCH2110

Year Course

See AA8

BB.2 GENERAL NURSING SCIENCE NGN2220

Year Course

See AA.10 (NGN2210)

BB.3 NURSING ETHOS AND PROFESSIONAL PRACTICE NEP2220

Year Course

Paper 1: 3 hours

Unit 1: History of Nursing
Unit 2: Philosophical Foundations of Nursing
Unit 3: Transcultural Nursing
Unit 4: Ethical Foundation of Nursing
Unit 5: Legal aspects of professional practice
Unit 6: Professional Practice.

BB.4 MIDWIFERY SCIENCE NMS2220

Year Course

Paper 1: 3 hours

Development and perspectives of reproductive health; normal pregnancy, labour and puerperium; pregnancyat risk; maternal nutrition; record keeping.

Paper 2: 3 hours
Complications in labour and puerperium; newborn at risk; record keeping.

Paper 3: 3 hours
Family planning; health information and statistics; ethical and legal aspects; management;
education and teaching.

Practical examination: half hour

BB. 5 PHYSIOLOGY NPH2220

Year Course

Paper I: 2 hours
Cell physiology, blood and immunity, cardiovascular system, respiratory system.

Paper 2: 2 hours
Nervous system, sense-organ, gastro-intestinal and metabolic systems, endocrinology and reproduction, body fluids, urinary system.

Year course

BB.6 SCIENTIFIC FOUNDATIONS OF NURSING NSF2220

First two terms

Paper 1: 3 hours

Specific anatomy and physiology, genetics and embryology, physiological changes during pregnancy, birth and puerperium; medicine and its affect on the mother, foetus and newborn.

CC. NATIONAL DIPLOMA IN RADIOGRAPHY (DIAGNOSTIC)

CC.1 APPLIED BIOLOGICAL SCIENCE

APPLIED BIOLOGICAL SCIENCES I **NAB2111/2112**

Semester 1 & 2
See AA.6

APPLIED BIOLOGICAL SCIENCE II **NAB2211/2212**

Year course

See AA.6

CC.2 APPARATUS CONSTRUCTION AND UTILISATION

APPARATUS CONSTRUCTION AND UTILISATION I **PAC2211**

Semester 1
Paper I: 2 hours
Main supply
X-ray tubes
X-ray tube supports and tables
Generators and cables
Transformers
Exposure switching and timers

Semester 2 PAC2212
Paper 1: 2 hours
Circuit protection
Meters
Circuit diagrams
Mobile, portable and dental units
Scattered radiation

APPARATUS CONSTRUCTION AND UTILIZATION II **PAC2311**

Semester 1
Paper I: 3 hours
Special X-Ray tables - tubes
Fluoroscopic equipment
Timers
Rapid sequence film changers
Specialized equipment

Semester 2 PAC2312
Paper 1: 3 hours
Tomographic equipment
Care: maintenance and tests
Alternative diagnostic methods
Processors

CC.3 COMMUNICATION AND STUDY SKILLS IN ENGLISH

Semester Course 1

English Communication and Study Skills **ULCE3419**

Language functions (Language use in various context)
Basic reading; skimming and scanning
Writing sentences and paragraphs
Listening and taking short notes
General speaking
Library information skills
Basic concepts of language usage
Dictionary skills
Vocabulary development

Module 2

Introduction and Application of Communication Skills in English

Developing reading skills
Writing coherent paragraphs
Interpretation and explanation of graphics in writing

Listening to lecturers and taking notes
Giving presentations on general topics

Semester2

Introduction to English for Academic Purposes **ULEA3419**

Academic reading; critical reading
Developing reading skills
Academic listening and taking notes
Academic speaking - individual oral presentations
Academic writing; library research - based essay and academic summaries.

CC.4 HISTORY, ETHICS AND PROFESSIONAL PRACTICE

Semester 1 PHE2311
Paper 1: 3hours
History of X-Rays; Ethics and legal aspects in the Health Care situation; Professional Practice aspects; scope of practice; registration requirements;

Semester 2 PHE2312
Accountability, inter-disciplinary relations, employer-employee relationships; general interpersonal relations.
Paper 1: 3 hours

CC.5 IMAGE RECORDING

IMAGE RECORDING I

Semester 1 PIR2111
Paper I: 2 hours

Photographic process principles
Photographic materials
Radiographic materials
Radiographic processing

Semester 2 PIR2112
Paper I: 2 hours
Silver recovery
Presentation and viewing of radiographs
Storage of exposed film]
Miniaturization of exposed film

IMAGE RECORDING II **PIR2211**

SEMESTER 1
Papers I and 2: 2 hours each
The image
The invisible image
The radiographic image
The influence of exposure factors
Image quality control
The image intensifier
Lens system and image distribution
Photofluorography and Digital images

SEMESTER 2 PIR2212
Television and Digital images
Recording the television image
Duplication of radiographs
Image subtraction techniques
Macro radiography
Alternative imaging techniques
Laser imaging
Dry imaging

CC.6 MICROBIOLOGY, PARASITOLOGY AND PATHOPHYSIOLOGY

SEMESTER Course
Paper 1: 3 hours **PMP2311**

Microbiology: Introduction and history; types of micro-organisms; physiology of micro-organisms; human and microbiological interactions; control of microbiological growth; epidemiology and transmission of disease; non specific mechanism of defense against disease; immunology and specific mechanism of defense against disease; collection of specimens; major diseases of the bodily systems; parasitology.

Paper 2: 3 hours **PMP2312**

Pathophysiology: Principles of pathophysiology; autonomic nervous system pathophysiology; cardiovascular pathophysiology; renal pathophysiology; drugs and the blood; drugs and the gastro-intestinal tract; endocrine pathophysiology; pathophysiology and the respiratory system; ophthalmic and optic
pathophysiology; pathophysiology and the skin; central nervous system pathophysiology; pathophysiology and the musculoskeletal system.

CC.7 PHYSICS FOR RADIOGRAPHERS
Faculty of Science: 1 Module **PHC2102**

Paper 1: 2 hours

Electromagnetic radiation; quantum theory of radiation; X-rays, gamma-rays and apparatus; interaction of radiation with matter; radioactivity and its detection; radiological protection.

CC.8 RADIATION TECHNIQUE

RADIATION TECHNIQUE I **PRT2110**

Year Course

Paper I: 3 hours

Principles of positioning
Bony landmarks and common terminology
Radiography of the upper limbs
Radiography of the lower limbs
Radiography of the pelvic girdle
Radiography of the thorax
Radiography of the abdomen
Radiography of the skull
Radiography of the vertebral column

RADIATION TECHNIQUE II **PRT2210**

Year Course

Papers I and 2: 3 hours each
Practical and oral examination: 30 minutes

Protection principles
Radiographic examinations of:
- Skeletal systems
- Abdomen
- Alimentary, biliary, genito-urinary, cardiovascular and respiratory systems
- Soft tissue differentiation
- High KV techniques
- Contrast media

RADIATION TECHNIQUE III **PRT2310**

Year Course

Papers I and 2: 3 hours each
Practical and oral examination: 30 minutes

Specialized Skull techniques
Ward and Theatre Techniques
Pediatric radiography
Contemporary techniques
Contrast media and specialized studies of all systems
Rural placement: 1 month

DD. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (OPERATING ROOM)

DD.1 NURSING ETHOS AND PROFESSIONAL PRACTICE NEP4100
Year Course **Paper I: 3 hours**

The Ethos of Nursing: Social foundation, philosophies, theories, history, ethics; Professional practice - introduction, principles, concepts and contemporary practice dynamics, ethical and legal aspects of professional practice, Conventions.

DD.2 HEALTH SERVICE MANAGEMENT I NHM4100
Year Course

I(a) Paper I : 3 hours
Historical preview; foundations; nursing unit: organisation and management; Professional practice; clinical nursing research.

I(b) Practical Module.

DD.3 SCIENTIFIC FOUNDATIONS OF NURSING (SPECIAL) NSF4100

Year course

Paper I: 3 hours

Unit I: Basic and advanced cardiac life support.
Unit 2: Alterations in fluids, electrolytes and acid base balances.
Unit 3: (Selected health problems in Namibia)

DD.4 THEORY AND PRACTICE OF OPERATING ROOM NURSING SCIENCE

Year Course **NOR4100**

Paper I: 3 hours
Surgical procedure of head, eyes, ears, nose, throat, cardiothoracic Areas material.

Paper 2: 3 hours
Surgical procedure of the abdominal and pelvic areas, the extremities, the skin, transplants, multiple injuries, emergencies and micro-surgery.

NOTE
All surgical procedure includes:

- Pre-operative visits
- Pre-operation of the operating room, instruments, equipment, suture material and other supplies
- Assistance during an operation
- Transportation of patient to the recovery room and transfer of patient to the recovery room personnel
- Emergency actions
- Record keeping
- Legal-medical risks
- Daily routine in the operating room
- Educational programmes to all categories personnel

Paper 3: Oral and practical examination

A minimum of 700 hours of practicals required. This includes:
- An informal programme of applied clinical instruction under supervision,
- Continued evaluation of knowledge, skills and attitude,
- Specialized management aspects of the operating room,
- The history, philosophy, ethos, ethics and legal aspects of operating room nursing,
- Scientific method and logic of operating room nursing.

EE. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (CRITICAL CARE)

EE.1 NURSING ETHOS AND PROFESSIONAL PRACTICE

NURSING ETHOS AND PROFESSIONAL PRACTICE **NEP4100**

Year Course

See DD.1

EE.2 HEALTH SERVICE MANAGEMENT I NHM4100

Year Course

See EE.3

EE.3 SCIENTIFIC FOUNDATIONS OF NURSING (Special) NSF4100

Year Course

See EE.3

EE.4 THEORY AND PRACTICE OF CRITICALCARE NURSING SCIENCE NCC4100

Year Course

Paper I: 3 hours

Core concepts and skills in:
- Cardiovascular System
- Respiratory System
- Nutrition
- Sedation And Analgesia
- Mechanical Ventilation
- Selected Neonatal Emergencies

Paper 2: 3 Hours

Core Concepts and Skills In:
- Central Nervous System
- Endocrine System
- Trauma And Selected Emergency
- Renal Failure

- Immune/Infection Aspects
- Skin
- Ethical and Professional Aspects

Paper 3: Oral and practical examination

A minimum of 960 hours of practicals required.

This includes:
- An informal programme of applied clinical instruction under supervision;
- Continued evaluation of knowledge, skills and attitude, cardiac failure, infarction and tamponade; vascular assessment; renal assessment and acute renal failure; thermal regulation, therapeutic hypothermia, pulmonale assessment, nutritional imbalance the history, philosophy, ethics and legal aspects in intensive (critical) care.

FF. ADVANCED UNIVERSITY DIPLOMA IN NURSING SCIENCE (HEALTH PROMOTION, CLINICAL DIAGNOSIS AND TREATMENT)

FF.1 NURSING ETHOS AND PROFESSIONAL PRACTICE NEP4100

Year Course

See EE.1

FF.2 HEALTH SERVICE MANAGEMENT I NHM4100

Year Course

See EE.2

FF.3 PHARMACOTHERAPY NPT4100

Year Course

Paper 1: 3 hours
- ❖ Legal aspects of drugs:
- Official policies
- Legal framework (Nursing Act, Medicine Control Act. etc)
- ❖ Judicious and rationale prescribing:
- Therapeutic and unwanted effects
- Costs
- Selection criteria
- Medicine/drug education
- Principles of pediatric pharmacology
- ❖ Drugs that effect the:
- Cardiovascular system
- Respiratory system
- Gastrointestinal system
- Nervous system
- Endocrine system
- ❖ Analgesics
- Psycho-active substances and drug abuse
- ❖ Chemotherapeutics and antibiotics
  Biological medicines
- ❖ Tropical diseases and antihelmintics
- ❖ Toxicology
- ❖ Disinfectants and insecticides
- ❖ Drugs and the eye
- ❖ Diuretics

FF.4 SCIENTIFIC FOUNDATIONS OF NURSING (Special) NSF4100

Year Course

See EE.3

FF.5 THE THEORY, PHILOSOPHY AND PROCESS OF PRIMARY HEALTH CARE NPH4100

Year Course

Paper I: 3 hours

Theoretical and philosophical foundations of primary health care; the current world health situation; the primary health care approach; primary health care and community development; family and community participation in primary health care; technical and operational aspects; national

strategies and international co-operation; interrelationship between health and development; comprehensive primary health care at local level; the role of national administration in primary health care.

Prevailing health problems (all systems of the human body); methods of identifying, preventing and controlling these conditions; prevention and control of local endemic diseases; appropriate diagnosis, treatment and care of common diseases and injuries; development of treatment protocol; maternal and child care including family planning; immunization against major infectious diseases; promotion of mental health; special needs of high-risk groups; referral systems.

Relationships between intersectoral regional co-operation, interdisciplinary co-operation and community involvement in the supply of fresh water, basic sanitation, adequate food supply and nutritional development, as well as raising the level of literacy.

Roles and functions of health manpower:
Theory and methods of effective health education in the primary health care situation.
Administration and management of primary health care services: planning, implementation, budgeting, employment and distribution of resources, logistic support, monitoring and evaluation of programmes. Ethical and legal constraints in the rendering of primary health care (for nurses). Multidisciplinary team approach.

Oral and practical examination: 1 hour
Methods for the identification, diagnosis, treatment and care of health problems of all systems of the human body; diagnosis and treatment of local endemic diseases and injuries; referral systems.

GG. MASTER OF NURSING SCIENCE (MEDICAL-SURGICAL NURSING)

GG.1 PHARMACOTHERAPY

Year Course **NPT6885**

LEGAL ASPECTS:

Prescribing of drugs

Drugs that affect the:
- Cardiovacular System
- Respiratory System
- Gastrointesinal System
- Nervous System
- Endocrine System
- Analgesics

Psycho-active substances and drug abuse, Chemotherapeutics and antibiotics, Biological medicines, Tropical diseases and antihistamintics, Toxicology, Disinfectants and insecticides, Drugs and the eye diuretics.

GG.2 RESEARCH METHODOLOGY NRM6885

Year Course

Quantitative research, Qualitative research, Descriptive statistics, Inferential statistics.

GG.3 THEORY AND PRACTICE OF CRITICAL CARE NURSING NCC6885

Year Course

The assessment, planning, implementation and evaluation of care rendered to patients with life threatening or potentially life-threatening conditions. It covers the spectrum from neonatal to adulthood.

GG.4 RESEARCH PROJECT NRP6885

Year Course

Students have to research an approved topic and write a thesis under the supervision of the department and submit it for examination.

The research proposal must have been approved by the end of the first year by the Faculty Board, Post-Graduate Studies Committee and Senate.

Clinical Practice:
The students will be allowed to critical care and high care nursing units that have been approved by the Namibian Nursing Board as training facilities.

HH. MASTERS OF NURSING SCIENCE

HH1 MASTERS THESIS

II MASTERS IN PUBLIC HEALTH

II.1 PHILOSOPHY AND BASIS OF PUBLIC HEALTH

Paper 1: 3 hours

Unit 1
Introduction and history of public health
Philosophical principles
Importance of public health

Unit: 2

II.2. DEMOGRAPHY OF HEALTH AND ILLNESS

Introduction
Vital statistics
Principles of demography
Demographic theory

Unit: 3

II.3 BASIC EPIDEMIOLOGY AND BIOSTATISTICS

Measurements of disease frequency, distributions, measure of central tendency and variability, selection, developing hypotheses, standard error, confidence intervals, significant testing, Anova, logistic regression
Major study designs in epidemiology. Introduction to Epi-Info Issues in screening, causality and confounding factor

Issues in surveillance
Collection of routine statistics
Statistical tests
Ethics in epidemiology

Unit: 4

II.4 DEMIOLOGICAL RESEARCH METHODOLOGY

Introduction and importance of research
The research process
Defining and refining a research problem
Literature review
Quantitative and qualitative research design
Sampling methods
Data collection and data quality
Data analysis
Report writing and dissemination of findings
Ethics in research

Unit: 5

II. 5 HEALTH POLICY DEVELOPMENT AND PLANNING

Approaches to health planning
Health information for planning
Financial management and health economics
Situational analysis/health survey methods
Settings priorities, option appraisal
Cost and costing, resource allocation and budgeting
Planning human resources
Health care delivery
Legislation and health
Health system of Namibia

PAPER 2: 3 hours

Unit 1

II.6 HEALTH SERVICE MANAGEMENT

Health in a social context
Approaches to management
Organizational culture and behaviours
Strategic planning and quality management
Quality improvement and programme evaluation
Personnel management
Health information systems and management
Project management
Policy for change/change management

Unit: 2

II.7 PRIMARY HEALTH CARE (PHC)

Introduction and concepts in PHC
Principles in PHC
Elements of PHC
Issues and challenges in PHC
Evaluation of PHC programme
Processes of assessment, participatory decision-making and
Evidence-based health practices, problem solving,
Advocating support through inter-sectoral collaboration, multidisciplinary approaches

Unit: 3

II.8 HEALTH PROMOTION AND BEHAVIOURAL SCIENCES

Approaches of health promotion and behavioural change on the physical, social and psychological/mental health levels.
Principles of health promotion and behavioural change.
School health and occupational health – programme management and evaluation.

Unit 4

II.9 ENVIRONMENTAL HEALTH SCIENCES

Introduction
Water and Sanitation management
Environmental health and disease control
Health risk assessment
Legislative control

Unit: 5

II.10 DISEASE CONTROL STRATEGIES

Introduction to disease prevention and control
Principles of communicable diseases
Prevention and control of HIV/AIDS
Forced migration and refugees in relation to control and prevention of communicable diseases
Prevention and control of non-communicable diseases.

II.11 SECOND YEAR

Research fieldwork and writing of the thesis.
Lectures, group discussions, seminars, assignments and field visits.
Computer and internet facilities are available at the UNAM Information and Learning Resource Centre (ILRC). Students should be computer literate

JJ. DOCTORAL OF NURSING SCIENCE

JJ.1 DOCTORAL THESIS.

KK. CERTIFICATE IN NURSING ACCIDENT AND EMERGENCY NURSING

KK1 ASPECTS RELATED TO NURSING TRAUMA AND EMERGENCY NURSING SITUATIONS

LL CERTIFICATE IN NURSING SCIENCE OPERATING ROOM

LL1. MODULE 1: THEATRE TECHNIQUE AND RELATED MEDICO-LEGAL AZARDS
LL2. MODULE 2: ANAESTHESIA AND RECOVERY ROOM PATIENT CARE
LL3. MODULE 3: APPLIED ADMINISTRATION

MM CERTIFICATE IN NURSING ADVANCED SKILLS

MM.1 ECG INTERPRETATION
MM.2 LABORATORY RESULTS
MM.3 WOUND CARE
MM.4 RADIOGRAPHY IMAGING

ADVICE, INFORMATION AND GENERAL REGULATIONS

ATTENDANCE OF LECTURES

Students following courses of study in Faculty of Medical and Health Science must have at least an 80% lecture and practical attendance. in order to obtain registration with the Professional Boards concerned students must comply with theory and practice requirements as stated by the Boards.

The degree Bachelor of Nursing Science (Advanced Practice) is offered through Distance Education.

GENERAL INFORMATION

Students must register at the University as per the requirements of the University.

- According to regulations, a radiation worker may not work if she is pregnant.
- The student must work under direct or indirect supervision of qualified personnel when doing practical work.
- Lectures will be given during the normal working day. Practical work will cover a 24-hour working period.
- Hospital orientation is required on initiation of the course of study.
- Radiography students shall be required to conform to prescribed registrations with the Radiography Board of Namibia and all applicable registrations/regulations as per relevant ordinances.
- General information appears in the General Information and Regulations Prospectus

NEW PROGRAMMES 2009

1 GENERAL REGULATIONS PERTAINING TO UNDERGRADUATE STUDIES IN THE FACULTY OF MEDICAL AND HEALTH SCIENCES

1.1 Admission

1.1.1 To register for an undergraduate degree programme a candidate must hold a valid Namibian Senior Secondary Certificate (NSSC) or a recognised equivalent qualification.

1.1.2 English is a **compulsory** subject and should normally have been obtained as English as a Second Language at NSSCO level with a minimum C symbol, or English as a First Language at NSSCO level with a minimum D symbol.

1.1.3 A candidate should obtain a minimum of 25 points on the UNAM Evaluation Point Scale in his/her five (5) best subjects (of which English must be one) to be admitted to undergraduate studies (cf. **7.3 General Admission Criteria for Undergraduate Programmes** in the **General Information and Regulations Prospectus**). Obtaining the minimum number of points, however, **does not necessarily ensure admission. Admission is based on places available in modules, subjects and programmes and is awarded on the basis of merit.**

1.1.4 The University reserves the right to interview students before admission.

1.1.5 Admission can also be considered for persons who qualify through the Mature Age Entry Scheme upon successful completion of the relevant examinations as set out in the General Regulations (cf. **7.4 Mature Age Entry Scheme** in the **General Information and Regulations Prospectus**). A special application form is available for this purpose.

1.1.6 Please read this section in conjunction with the academic conditions stipulated in the **General Information and Regulations Prospectus**.

1.1.7 Annually after registration students must furnish the Faculty with proof of current registration with the Namibia Nursing Council or with the Allied Health Professions Council of Namibia where applicable.

1.1.8 Clinical placement of undergraduate will be at different Health Institutions/Facilities including Rural Placements throughout the country.

1.1.9 The award of the degree is subject to the satisfactory completion of all prescribed practical hours and the satisfactory completion of the registers that candidates had to use during their placement in the Clinical areas.

1.1.10 Clinical hours as allocated weighs 50% of the total course work. Clinical allocations are thus a critical Component of the course work.

1.1.11 All documents /registers used in the Clinical areas must be regarded as legal documents and should bear the signature of the student and the registered Nurse or Radiographer who teach and demonstrate the practical procedure to the student for that specific course.

1.1.12 The Practical hours for the year should be completed before registering for the next academic year.

1.1.13 All signatures should be legible and authentic, any fraudulent signatures will let to the immediate cancellation of the programme immediately.

1.1.14 All students should adhere to the specific rules and regulation of the Ministry of Health and Social Services during their allocation in the clinical areas; and also adhere to the prescribed dress code during the clinical attachment; and to the hours scheduled for each day at these areas.

A. BACHELOR OF NURSING SCIENCE CLINICAL (14BNCL)

A1. ADMISSION REQUIREMENTS:

To register in this program, a candidate should hold a valid Namibian Senior Secondary Certificate (NSSC) at ordinary level and NSSC at higher level or equivalent. Candidates should obtain a minimum of 25 points on the UNAM Evaluation Point Scale in five subjects. English is a compulsory subject with a C-grade or better as a second language or a Grade D or better as a first language. Admission will also be considered for person who quality through Mature Age Entry Scheme.

Note: Annually after registration, every student must furnish the Faculty with proof of current registration as a student with the Namibia Nursing Council.

A.2. DURATION:

The minimum duration for full time students enrolled for the Bachelor of Nursing Science Degree will be four (4) years. The maximum period of study is six (6) years.

A.3. PROFESSIONAL DEVELOPMENT PLACEMENT

The award of the degree is subject to satisfactory completion of the requirements of the University and the Nursing Council of Namibia. It is imperative that the Nursing code of practice be strictly adhered to in terms of theory and practice.

A.4 DELIVERY MODE:

This degree will be offered through a face-to-face mode in collaboration with other UNAM faculties and the main stakeholder, namely the Ministry of Health and Social Services (MOHSS).
Clinical teaching will be done in collaboration with assistance of the ward Clinical Instructors at the Health facilities, whereas some clinical procedures will be conducted in the simulation laboratories at the Faculty in order to strengthen clinical skills, and also to correlate the theory with clinical practice.

A.5 IMPLEMENTATION:

The Faculty will offer the Bachelor of Nursing Science Degree at the Northern and Main campuses. The commencement of the degree is based on readiness of the Faculty in terms of human resources, physical facilities and teaching material. The Faculty is positive regarding changes within the infrastructure, which are required for the provision of quality care to the Namibian society.
Only the first year of the degree will commence in 2008. The rationale behind this decision is based on the fact that the current University Diploma in General Nursing and Midwifery Science is being phased out while the new Bachelor of Nursing Science will simultaneously be phased in.

A.6 TEACHING AND LEARNING MODEL:

The teaching and learning model will be based on a student-centred approach which is characterised by self study elements, fieldwork, lectures, projects, individual and group activities, discussions, and tutorials.

A.7. ASSESSMENT:

Assessments will be based on the general regulations of the specific faculty, explained as follows:

(a) Continuous assessment = 50% (practicals, tests, assignments, projects)
(b) Final Examination 50%

A.8 ACADEMIC ADVANCEMENT RULES

Minimum requirements for re-admission into the Faculty:
A student will not be re-admitted into the Faculty if s/he has not passed at least:

- 4 Modules (equivalent to 64 credits) at the end of the first year of registration; at least 2 modules (32 credits) should be non-core.
- 9 Modules (equivalent to 144 credits) at the end of the second year of registration including all UNAM core modules.
- 17 Modules (equivalent to 272 credits) at the end of the third year of registration.
- 25 Modules (equivalent to 400 credits) at the end of the fourth year.

A student advances to the following academic level of study when at least 2/3 of the modules of the curriculum for a specific year have been passed. If a student passed only one third (1/3) of the full curriculum of a specific year, s/he may not register for any course on the next level. In all cases prerequisite for modules have to be passed before a student can proceed to register for modules that requires a prerequisite.

From year 1 to year 2:
At least 6 modules (equivalent to 96 credits) out of the 9.5modules (152 credits) prescribed for year 1.

From year 2 to year 3:
All first year modules plus at least 6 modules (equivalent to 96 credits) prescribed for year 2

From year 3 to year 4:
All second year modules plus at least 6 modules (equivalent to 96 credits) out of the 8.5 modules (136 credits) prescribed for year

A.9 CONFIRMING OF THE DEGREE:

A student shall be awarded the degree of the Bachelor of Nursing Science if she/he has passed all prescribed modules.

A.10 PRACTICAL COMPONENT:

The practical learning experience and clinical teaching prescribed in the curriculum will take place in a variety of health care services. The practice is coordinated with the guidance of lectures and preceptors. The clinical learning experience must extend over four academic years.

A11. BACHELOR OF NURSING SCIENCE DEGREE CURRICULUM COMPILATION: TOTAL CREDITS: 552 (Including 48 UNAM core credits)

YEAR 1

Semester 1					Semester 2				
Module	**Code**	**Hrs**	**Credits**		**Module**	**Code**	**Hrs**	**Credits**	
General Nursing Science I	MNGN3510	2+16h clinical attachment	16	5	General Nursing Science I	MNGN3510	2+16h clinical attachment	16	5
Basic Human Anatomy	MNAB3559	4	16	5	Applied Human Anatomy	MNAB3552	4	16	5
Introduction to Psychology I	HPSG3511	4	16	5	Social Psychology	HPSG3532	4	16	5
Health Care Dynamics	MNHD 3421	2	8	4					
Contemporary Social Issues	UCSI 3429	2	8	4					
					Computer Literacy	UCLC 3409	2	8	4
English Communication and Study Skills	ULCE 3419	4	16	4	English for Academic purposes	ULEA 3419	4	16	4
TOTAL		**18**	**80**				**16**	**72**	
Semester 1 includes UNAM core and faculty core modules **TOTAL CREDITS YEAR : 152**									

Please note: 16h/week clinical attachment equals 8 credits

YEAR 2

Semester 3					Semester 4				
Module	**Code**	**Hrs**	**Credits**	**NQF Level**	**Module**	**Code**	**Hrs**	**Credits**	**NQF Level**
General Nursing Science II	MNGN3680	2+8h clinical attachment	12	6	General Nursing Science II	MNGN3680	2+8h clinical attachment	12	6
Basic Human Physiology	MNAB 3639	4	16	6	Applied Human Physiology	MNAB 3632	4	16	6
Community Health Nursing Science I	MNCH 3680	2+8 clinical attachment	12	6	Community Health Nursing Science I	MNCH 3680	2+8 clinical attachment	12	6
Midwifery Science I	MNMS 3680	2+8 clinical attachment	12	6	Midwifery Science I	MNMS 3680	2+8 clinical attachment	12	6
Foundations of Sociology	MNFS3511	4	16	5	Basics of Sociology: paradigms and methods	MNBS 3532	4	16	5
TOTAL		**14**	**68**				**18**	**68**	
TOTAL CREDITS YEAR 2 : 136									

Please note: 8h/week clinical attachment equals 4 credits

YEAR 3

Semester 5					Semester 6				
Module	**Code**	**Hrs**	**Credits**	**NQF Level**	**Module**	**Code**	**Hrs**	**Credits**	**NQF Level**
General Nursing Science III	MNGN3780	2+8 clinical attachment	12	7	General Nursing Science III	MNGN 3780	2+8 clinical attachment	12	7
Community Health Nursing Science II	MNCH 3780	2+8 clinical attachment	12	7	Community Health Nursing Science II	MNCH 3780	2+8 clinical attachment	12	7
Microbiology	MNAB3659	4	16	6	Pharma-cotherapy	MNAB3652	4	16	6
Midwifery Science II	MNMS3780	2+8 clinical attachment	12	7	Midwifery Science II	MNMS3780	2+8 clinical attachment	12	7
Social Problems **OR**	MNSP3671	4	16	6	Sociology of Development	MNSD3632	4	16	6
Organisational /Personnel Psychology	HPSI3631	4	16	6					
TOTAL		**14**	**68**				**14**	**68**	

Please note: 8h/week clinical attachment equals 4 credits

YEAR 4

Semester 7					Semester 8				
Module	**Code**	**Hrs**	**Credits**	**NQF Level**	**Module**	**Code**	**Hrs**	**Credits**	**NQF Level**
General Nursing Science IV	MNGN3880	2+8 clinical attachment	12	8	General Nursing Science IV	MNGN3880	2+8 clinical attachment	12	8
Community Health Nursing Science III	MNCH 3880	2+8 clinical attachment	12	8	Community Health Nursing Science III	MNCH 3880	2+8 clinical attachment	12	8
Mental Health Nursing	MNHM3880	2+8 clinical attachment	12	8	Mental Health Nursing	MNHM3880	2+8 clinical attachment	12	8
Health Research methods	MNHR3820	2	8	8	Health Research methods	MNHR3820	2	8	8
					Research paper in Health	MNHR3812	4	16	8
Ethos and Professional Practice	MNEP3820	2	8	8	Ethos and Professional Practice	MNEP3820	2	8	8
Trauma and Emergency Care	MNTE3829	2	8	8					
TOTAL		**12**	**60**				**14**	**68**	
TOTAL CREDITS YERAR 4: 128									

Please note: 8h/week clinical attachment equals 4 credits

A.12. MODULE / CODES AND RESTRICTION ON MODULES

MOUDELS	CODE	PRE-REQUISITE	CO- REQUISITE	
Year 1 Applied Human Anatomy	MNAB 3552	-	MNAB3531	
English Comm. Study Skills				
Year 2 General nursing science	MNGN3680	MNGN3510MNAB3559		
Basic Human Physiology	MNAB3639	MNAB3552		
Applied Human Physiology	MNAB3632		MNAB3363**9**	
Midwifery Science	MNMS3680	MNAB3559/3552		
YEAR 3				
General nursing science	MNGN3780	MNAB 3632/ MNGN3680		
Community Health Nursing	MNCH3780	MNCH3680		
Microbiology	MNAB3659	MNAB3632		
Pharmacotherapy	MNAB3732	MNAB3632	MNAB3651	
Midwifery Science	Mnms3780	MNSM3680		
YEAR 4				
General Nursing Science	MNGN3880	MNGN3780		
Ethos and Prof Practice	NEP3820	MNGN3780		
Community Health Nursing	MNCH3880	MNGN 3780		
Mental Health Nursing	MNMH3880	MNGN3780		
Trauma&Emer.Care	MNTE3829	MNGN3780		

AA. MODULE DESCRIPTORS (SYLLABI)

Year 1

AA.1 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 1

Module title: General Nursing Science 1
Code: MNGN 3510
NQF level: 5
Contact hours: Theory: 2+ 2hp periods per week x 28 weeks
Practical: 20 Hours per week
Credits: 8
Module assessment: Continuous assessment: 40%; Examination: 50%
Examination: Theory: one (1) three (3) hour paper at the end of the year
Practical: Objective structural clinical evaluation (OSCE) in wards and in simulation, problem solving. The weight between the theory and the clinical examination is 50/50.
Pre-requisite: None
Module description:
This module 1 introduce the student to competencies essential to the professional nursing. The novice nursing student, who has no background experience in the nursing practice environment, is provided with basic skills (cognitive, affective and psychomotor) to progress to the competent level of selected core competencies. These core competencies include assessment, diagnosis, planning, implementation and evaluation of basic human needs of the person, be it an individual, family, group or community. The conceptual framework for this module is based on the major concepts (meta paradigm) of nursing and includes nursing, health, environment and person as well as education.

AA.2 MODULE DESCRIPTOR: BASIC HUMAN ANATOMY

Module title: Introduction to Anatomy
Code: MNAB 3559
NQF Level: 5
Contact Hours: 4 periods per week for 14 Weeks
Credits: 16
Module Assessment: Continuous assessment: 40%
Examination: 50%; 1x3hour paper
Pre- requisite: None

Module Description:
This module aims at equipping the health care student with anatomical knowledge as well as biophysical principles in order to apply these in their daily health care activities at the clinic, health centre, and hospital and community levels. The anatomical knowledge is presented in such a manner as to relate structural damages to the pathologies that will be presented in modules in General Nursing Science and Midwifery Science. This module focuses on the following systems: medical terminology, the human cell , human tissue and the integumentory system.The musculo-skeletal system and the articulations.

AA.3 MODULE DESCRIPTOR: APPLIED HUMAN ANATOMY

Module title:	Applied Human Anatomy
Code:	MNAB 3552
NQF Level:	5
Contact Hours:	4 periods per week for 14 Weeks
Credits:	16
Module Assessment:	Continuous assessment: 40% Examination: 50%; 1x3hour paper
Co- requisite:	Introduction to Anatomy (MNAB 3559)

Module Description:
This module aims at equipping the health care student with anatomical knowledge as well as biophysical principles in order to apply these in their daily health care activities at the clinic, health centre, and hospital and community levels. The anatomical knowledge is presented in such a manner as to relate structural damages to the pathologies that will be presented in modules in General Nursing Science and Midwifery. The module will also address issues of multiple organ involvement where it might be necessary to compare derangement in anatomical structures. The focus of this module is on the digestive system, nervous system ,endocrine system, urinary system and the reproductive system.

AA.4 MODULE DESCRIPTOR: INTRODUCTION TO PSYCHOLOGY

Module title:	Introduction to Psychology
Code:	HPSG 3511
NQF level:	5
Contact hours:	1 x 2 hour tutorial per semester
Module assessment:	Continuous assessments: 60%
Examination:	40% 1 x 3 hour paper
Pre requisites:	None

Module description:
During this module students will become familiar with the major themes of psychology as a discipline. Major areas of psychology such as cognition, emotion and motivation will be covered.

AA.5 MODULE DESCRIPTOR: SOCIAL PSYCHOLOGY

Module title:	Social Psychology
Code:	HPSG 3532
NQF level:	5
Contact hours:	4hrs p/w for 14 weeks
Credits:	16
Module Assessment:	Continuous assessment: 60% Examination: 40% 1 x 3 hour paper
Prerequisites:	None

Module description:
This module gives a student an understanding of the social basis of behavior in a multicultural society. Students will become familiar with concepts such as: the self in a social world; social beliefs and judgments; attitudes; types of social influence; group behavior and influence; leadership and decision making; prejudice and discrimination; aggression; affiliation, attraction and love; pro-social behavior.

AA.6 MODULE DESCRIPTOR: HEALTH CARE DYNAMICS

Module title:	Health Care Dynamics
Code:	MNHD 3421
NQF Level:	4
Contact hours:	2 per week x 14 weeks
Credits:	8
Module assessment:	Continuous assessment: 40% Examination: 50% 1x2hour paper
Pre-requisite:	None

Module description:
This module aims at introducing the student to the art and science of professional practice in Health Science by means of a core curriculum. It will enable the student to develop competency in a professional approach and to develop insight and skills in the complexities of the caring relationship. By introducing the students to Professional practice they will be enabled to understand the art and science of the health care profession. It will also introduce the health care student to problem - solving and critical thinking in health care practice. This module will also enable the student to understand the holistic approach to the caring relationship and the importance of developing the interpersonal skills to sustain a caring relationship and develop skills in self care

AA.7 MODULE DESCRIPTOR: COMPUTER LITERACY

Module title:	Computer Literacy
Code:	UCLC 3409
NQF level:	4
Contact hours:	2 periods per week for 14 weeks
Credits:	8
Module assessment:	Continuous Assessment 100% Contribution to final Mark: 2 Practical Tests 50% 2 Theory Tests 50%
Prerequisites:	None

Module description:

The aim of this module is to equip the student through hands-on experience with the necessary skills to use applications software such as Word processing, Spreadsheets, Database, Presentations and communications packages for increasing their productivity in an education and training environment.

Exit learning outcomes: At the end of this module, candidates should be able to:

- apply the concepts of information technology
- use the computer in an education and training environment
- manage Files and Folders
- use the MSWORD program to create letters, memos, reports, newsletters, manuals and manuals
- use the MS EXCEL to create electronic spreadsheets
- use the MS POWERPOINT to create slides, transparencies, handouts, and speaker notes
- use the MS ACCESS program to store, retrieves, and organizes information
- search the Internet information relevant to the education and training environment
- use the computer for electronic.

AA.8 MODULE DESCRIPTOR: CONTEMPORARY SOCIAL ISSUES

Module title:	Contemporary Social Issues
Code:	UCSI 3429
NQF:	4
Contact Hours:	2 Contact hours per week for 5 weeks (Social Ethics) 2 Contact hours per week for 5 weeks (HIV/AIDS) 2 Contact hours per week for 4 weeks (Gender)
Credits:	8
Module Assessment:	A student is expected to write either one assignment or a test for the continuous assessment (CA). CA contributes 50% of the total marks and the three units make the CA. Examination 50% (1 X 3 Hours examination paper). The final examination comprises a three hour examination paper. The question paper consists of one third of each unit.
Prerequisite:	None
Module Description:	
Social Ethics:	The Unit raises awareness on the need for a personal, national and global ethics. The main objectives of the course is to help students reflect on the social moral issues; to discover themselves in a learner-centered, contextual, religious and life related setting. It also stimulates students for critical thinking and helps them to appreciate their values, standards and attitudes.
HIV/AIDS	This unit orientates students with regards to the epidemiology of HIV/AIDS; the prevalence of the disease on Namibia, Africa and Internationally. . It also informs students on the psycho social and environmental factors that contribute to the spread of the disease, the impact of HIV/AIDS on their individual lives, family and communities at large. The unit further seeks to enhance HIV/AIDS preventive skills among students by means of paradigm shift and behavior change.
Gender	The ultimate goal of this unit is to impart general introductory knowledge on gender. The main objectives of the unit are to make students aware, as well as sensitize them towards gender issues and how they affect our society, Sub-Region and continent at large.

AA.9 MODULE DESCRIPTOR: ENGLISH COMMUNICATION AND STUDY SKILLS

Module title:	English Communication and Study Skills
Code:	ULCE 3419
NQF Level:	4
National professional standard competencies:	N/A
Contact hours:	4 hours per week for 14 weeks
Credits:	16
Module Assessment:	Continuous assessment (60%) 2 tests (reading and writing) 2 reading assignments 1 oral presentation Examination (40%): 1 x 3 hour examination paper
Pre-requisites:	None

Module description:

This module is aimed at assisting students in the development of their reading, writing and speaking and listening skills, in order to cope with studying in a new academic environment and in a language which may not be their first language. The module also focuses on study skills that

students need throughout their academic careers and beyond. The module serves as an introduction to university level academics, where styles of teaching and learning differ from those at secondary schools in that more responsibility is placed on the student. The module therefore, focuses on the skills that students need throughout their academic careers and beyond.

AA.10 MODULE DESCRIPTOR: ENGLISH FOR ACADEMIC PURPOSES

Module title:	English for academic Purposes
Code:	ULEA 3419
NQF level:	4
Contact hours:	2 periods per week x 14 weeks
Credits:	8
Module assessment:	Continuous assessment 60%; Examination: 40%
Pre-requisites/co requisites:	ULCE 3419

Module description:
The course is designed to cater for the needs of students, who are faced with a task of studying in a new academic environment and in a language which may not be their first language, or a language of instruction. The course serves as an introduction to university, where styles of teaching and learning differ from those at Secondary school level as they place more responsibility on the student. The course therefore focuses on the academic skills, which they need throughout their academic career and beyond.

YEAR 2

AA.11 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 2

Module Title:	General Nursing Science module 2
Code:	MNGN 3680
NQF level:	6
Contact Hours:	2+2hp
Credits:	16
Module assessment:	Continuous assessment: 40%
Examination:	50% 2x3 hour papers
Prerequisites:	MNGN3510 and MNAB3511/3512

Module 1
Module description:
Building on fundamental knowledge gained in module 1, this module introduces the student to more advanced concepts that promote the application of the nursing process in the area of the adult and paediatric medical and surgical conditions that are prevalent in Namibia. The student will have opportunities to work collaboratively with members of a health care team. Skills laboratory will provide the student with simulation experiences to develop skills related to intravenous therapy, medication administration by various routes, blood product administration, central venous access devices and chest tube management.
Module 11 builds on competencies achieved in Module 1.These are assessment, diagnosis, planning, implementation, and evaluation of patient needs that evolve from adult and paediatric medical and surgical conditions that are prevalent in Namibia. The conceptual framework for this module is based on the major concepts (Meta paradigm) of nursing and includes nursing, health, environment, and person as well as education.

AA.12 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING SCIENCE MODULE

Module Title:	Community Health Nursing Science I
Code:	MNCH 3510
NQF level:	5
Contact hours:	4 periods per week x 28 weeks
Credits:	32
Module assessment:	Continuous assessment – 40% (5 tests per year)

Examination – 50% (1 paper x three hour paper)

Prerequisite:	None

This module aims to equip the student nurse with adequate knowledge, appropriate skills and positive attitudes to provide comprehensive community health care based on the primary health care principles and approaches to individuals, family and community.

AA.13 MODULE DESCRIPTOR: BASIC HUMAN PHYSIOLOGY

MODULE TITLE:	PHYSIOLOGY AND BIOCHEMISTRY FOR HEALTH CARE STUDENTS
CODE:	MNAB 3639
NQF Level:	6
Contact hours:	4 periods per week x 14weeks
Credits:	16
Module assessment:	Continuous assessment: a0% Examination: 50%
Pre- requisites:	MNAB 3532

Module description:
This module aims at equipping the health care student with knowledge and skills with regard to normal human functioning (physiology) and biochemistry in order to detect any deviation from the normal functioning and thus relate this module to wellness and disease topics. This module focuses on the cardiovascular- respiratory and the integumentory system.

AA.14 MODULE DESCRIPTOR: APPLIED HUMAN PHYSIOLOGY

MODULE TITLE:	APPLIED PHYSIOLOGY
CODE:	MNAB 3632
NQA Level:	6
Contact hours:	4 periods per week x 14 weeks
Credits:	16
Module Assessments:	Continuous assessment: 40% Examination: 50%
Pre-requisite:	MNAB 3631

Module description:
This module aims at equipping the health care student with knowledge and skills with regard to normal human functioning (physiology) in order to detect any deviation from the normal functioning and thus relate this module to wellness and disease topics. This module focuses on the nervous - endocrine system, the renal system, with concepts of fluid and electrolytes, nutrition and digestion as well as the reproductive system. .

AA.15 MODULE DESCRIPTOR: MIDWIFERY SCIENCE 1

Module title:	Midwifery Science 1
Code:	MNMS 3680
NQF level:	6
Contact hours:	Theory: 2 plus 2 hours practical for 28 weeks Clinical practice & simulations: 20 hours per week
Credits:	16
Module assessment:	Continuous assessment: 40% (minimum 4 tests, assignments, case studies, 1-2 Examination: 50% (2 papers of three hours each)
Prerequisites:	MNAB 3531/3532

Module description:
This module enable the student to provide comprehensive maternal and newborn care; apply anatomy and physiology of the female reproductive systems; manage and refer normal pregnancy and antenatal care, normal labour, normal puerperium, including concepts of prevention of mother to child transmission (PMTCT), with in the cultural, ethical and the legal scope of practice at all levels**.**

AA.16 MODULE DESCRIPTOR: FOUNDATION OF SOCIOLOGY

Module Title:	Foundation of Sociology
Code:	MNFS 3511
NQF level:	5
Contact hours:	4 lectures per week / 14 weeks
Credits:	16
Module assessment:	Continuous assessment**:** 60%, : Examination 40%.
Prerequisites:	None

Module description:
This module is an introduction to sociology for nursing students. While introducing the student to the basic concepts, theories, fields and applications of sociology, it focuses on the role of sociology in medicine. The course covers in particular the field of sociology and medical sociology

AA.17 MODULE DESCRIPTOR: BASICS OF SOCIOLOGY: PARADIGMS AND METHODS

Module title:	Basic Sociology: Paradigms and Methods
Code:	MNBS 3532
NQF level:	5
Contact hours:	4 lectures per week / 14 weeks
Credits:	16
Module assessment:	Continuous assessment: 60%, Examination: 40%
Prerequisites:	None

Module description:
The course mostly utilizes lecture and tutorial format. It resumes the methodological training introduced into the sociology curriculum with the 1st year course “Basics of Sociology”. It familiarizes the student with the use of social science research methods to identify, formulate, and study social problems (class, poverty and inequality; gender inequality; crime and violence; alcohol and substance abuse; HIV/AIDS and other health issues; environmental problems etc). At lower intermediate level, the course is the second in a sequence of three modules aimed at imparting theoretical knowledge, conceptual capabilities and practical skills in social research that are needed for adequate professional preparation. Practical acquaintance with the field, however, will be reserved for a further course at upper intermediate level, in the following year of studies.

YEAR 3 MODULES

AA.18 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE MODULE 3

Module title:	General Nursing Science Module 3
Code:	MNGN 3780
NQF level:	7
Contact hours:	2 hours plus 2hours practical x 28 weeks
Credits:	16
Module assessment:	Continuous assessment: 40% Examination: 50% 2x 3hour paper
Prerequisites:	MNGN3610 MNAB3612

Module description:
This module introduces the student to more advanced concepts that promote the application of the nursing process and nursing theories in the area of the adult in the specialized health care disciplines, i.e. central and peripheral nervous system, musculoskeletal system, genito-urinary systems, ophthalmology, ear and nose, and oncology conditions that are prevalent in Namibia. The student will have opportunities to work collaboratively with members of a health care team in the specialized environments of the training hospitals of Namibia. Skills laboratory will provide the student with simulation experiences to master selected skills before s/he is allocated to the health care environment.
Nursing care of the HIV/AIDS infected client features strongly throughout this module.
This module builds on competencies achieved in previous modules. These are assessment, diagnosis, planning, implementation, and evaluation of patient needs that evolve from the specialized disciplines prevalent in Namibia. The conceptual framework for this module is based on the major concepts (Meta paradigm) of nursing and includes nursing, health, environment, and person as well as education.

AA.19 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING 2

Module Title:	Community Health Nursing Science 2
Subject code:	MNCH 3780
NQF level:	7
Contact hours:	2 plus 2 practical hours x 28 weeks
Credits:	16
Module assessment:	Continuous assessment – 40% Examination – 50% 1 x 3hour hour paper
Prerequisites:	Pass community health nursing sciences I

Module Description:
This module aims to equip the student nurse with adequate knowledge, appropriate skills and positive attitudes to provide comprehensive community health care with emphasis on: immunization, school child and communicable diseases based on national policies and guidelines of Ministry of Health Social Services

AA.20 MODULE DESCRIPTOR: MICROBIOLOGY

Module Title:	Microbiology
Code:	MNAB 3659
NQF level:	7
Contact hours:	4 periods per week x 14 Weeks
Credits:	16
Module Assessment:	Continuous assessment: 40% Examination: 50% 1x 3 hour paper
Pre-requisite:	MNAB 3632

Module description:
The aim of this module is to equip health care students with knowledge and skills in microbiology in order for them to contribute to the prevention of diseases and to maintain a healthy environment for the patient or client, families and communities.

AA.21 MODULE DESCRIPTOR: PHARMACOTHERAPY

Module Title:	Pharmacotherapy
Code:	MNAB 3652
NQF Level:	7
Contact Hours:	4 periods per week x 14 weeks
Credits:	16
Module Assessment:	Continuous assessment: 40% Examination: 50% 1x 3hour paper
Pre-requisite:	MNAB 3632

Module description:

This module describes aspects of medicines utilized to alter or normalize the body systems and correct possible abnormalities. The focus is on the role of the health worker with regard to acquiring and managing proper dispensing, as well as concepts of pharmacokinetics and pharmacodynamics

AA.22 MODULE DESCRIPTOR: RESEARCH PAPER IN HEALTH

Module Title:	Research Paper in Health
Code:	MNHR 3812
NQF level:	8
Contact hours:	4 Hours per week x 14 weeks
Credits:	16
Module assessment:	A final assessment of the health research project (100%) by the two supervisors within the Department of Radiography and the external moderator
Prerequisite:	MNHR3811

Module Description:
This module is focusing on the completion of a research project in a health related field by a final year student. The project needs to be independently completed by the student but with the supervision of two lecturers.

AA.23. MODULE DESCRIPTOR: SOCIAL PROBLEMS

Module title:	Social Problems
Code:	HSOC 3532
NQF level:	5
Contact hours:	4 lectures per week / 14 weeks
Credits:	16
Module assessment:	Continuous assessment: 60%, Examination: 40%
Prerequisites:	None

Module description:
The course mostly utilizes lecture and tutorial format. It resumes the methodological training introduced into the sociology curriculum with the 1st year course "Basics of Sociology". It familiarizes the student with the use of social science research methods to identify, formulate, and study social problems (class, poverty and inequality; gender inequality; crime and violence; alcohol and substance abuse; HIV/AIDS and other health issues; environmental problems etc). At lower intermediate level, the course is the second in a sequence of three modules aimed at imparting theoretical knowledge, conceptual capabilities and practical skills in social research that are needed for adequate professional preparation. Practical acquaintance with the field, however, will be reserved for a further course at upper intermediate level, in the following year of studies.

AA.24 MODULE DESCRIPTOR: SOCIOLOGY OF DEVELOPMENT

Module title:	Sociology of development
Code:	HSOC 3632
NQF level:	6
Contact hours:	4 lectures per week for 14 weeks
Credits:	16
Module assessment:	Continuous assessment: 60%: Examination: 40%
Prerequisites:	HSOC 3531/3532

Module description:
Key theories, themes and case studies on social and economic development will be introduced to the student with the intention of explaining the causes of underdevelopment and, alternatively, successful development. Classical, modernisation, dependency, organizational, regulations and post-material theories will be critically examined. Historical dimensions of development will be included in relation to: rise of industrial societies; colonial impacts; the emergence of the global economy. Themes will be: measuring development and poverty, international aid, Asian economies including China, population, urbanization and migration, politics and development, NGO and inter-governmental assistance, sustainable development. These will be applied to Namibian contexts, including explanations and solutions to restricted development in the African continent. Group work will be undertaken.

AA.25 MODULE DESCRIPTOR: ORGANISATIONAL/PERSONNEL PSYCHOLOGY

Module title:	Organisational/Personnel
Code:	HPSI 3631
NQF level:	6
Contact hours:	4 lecture periods for 14 weeks
Credits:	16
Module assessment:	Continuous assessment: 60% Examination: 40% 1 x 3 hour paper
Prerequisites:	None

Module description:

Students will gain a basic understanding of the approaches in organisational and personnel psychology. Specific topics will include leadership theories, interactive behaviour and conflicts, communication, decision making and processes of human resources development such as job analysis, job description, recruitment and selection.

AA.26 MODULE DESCRIPTOR: MIDWIFERY SCIENCE 2

Module title:	Midwifery Science 2
Code:	MNMS 3780
NQF level:	7
Contact hours:	2 plus 2 hours practical x 28 weeks
Credits:	16
Module assessment:	Continuous assessment: 40% Examinations: 50% 2 x 3 hours papers.
Prerequisites:	NMS 3610

Module description
At the end of this module the student nurse should be able to provide comprehensive maternal and newborn care by equipping themselves; to identify and manage and/or refer complications and emergencies during abnormal pregnancy, labour, puerperium and the newborn at risks, including PMTCT, within the cultural, ethical and the legal scope of practice at all levels of care.

YEAR 4 MODULES

AA.27 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 4

Module title:	General Nursing Science 4
Subject code:	MNGN 3880
NQF level:	8
Contact hours:	2x2 hp
Credits:	16
Module assessment:	Continuous assessment: 40% Examination: 50% 2X 3 hour papers
Prerequisites:	MNGN3710

Module description:
Building on skills gained in previous modules, this module provides the student with opportunities to work collaboratively with members of a health care team in the health care environments of the training and selected rural hospitals of Namibia. The module aims to equip the student with in-depth knowledge to enable the integration of the unit standards of professional nursing practice as a clinician, teacher, investigator, and leader-manager in any health care environment. S/he utilizes knowledge of diverse cultures, perspectives and belief systems to prepare for the role of health service manager. Knowledge is synthesized from advanced knowledge from nursing and related disciplines into a specialized area of nursing. Critical thinking skills and diagnostic reasoning is demonstrated in decision making. The student demonstrates the ability to present ideas both orally and in writing in an articulate, literate, and organized manner. S/he uses current technology in the nursing roles of clinician and leader-manager. The student integrates ethical principles to practice in the clinical environment. A philosophy of nursing and health care based on personal and professional standards of values, ethics and responsibility is exemplified. Leadership skills and management processes are executed to maximize client (person) well being.
The Integrated Management of Childhood Illnesses (IMCI) strategy aims to improve the case management skills of the student to improve the health care system required for effective management of childhood illness and to improve family and community health practices.
The conceptual framework for this module is based on the major concepts (meta paradigm) of nursing and includes nursing, health, environment, and person as well as education.

AA.28 MODULE DESCRIPTOR: COMMUNITY NURSING SCIENCE 3

Module Title:	Community Health Nursing Science
Subject code:	MNCH 3880
NQF Level:	8
Contact hours:	2x2hp
Credits:	16
Module assessment:	Continuous assessment: 40% Examination – 50% 1 x three hour paper
Prerequisite:	MNGN3710

Module Description:
This module aims to equip the student nurse with adequate knowledge, appropriate skills and positive attitudes to better understand: the aging process, the practical principles of epidemiology and utilize the results to promote nursing care, nutrition for all age groups and also motivate the student to become actively involved in community projects/programs.

AA.29 MODULE DESCRIPTOR: MENTAL HEALTH NURSING

Module Title:	Mental Health
Subject Code:	MNMH 3810
NQF Level:	8
Total Credits:	12
Contact Hours:	Theory 4 periods per week x 28 Weeks Practical 16 periods per week x 28 weeks
Module assessment:	Continuous Assessment 40% Examination: 50% 1 X 3 hour paper
Pre-requisite:	None

Module description:
This course is aimed at introducing the student to mental health and equipping her/him with knowledge and skills to enable her/him understand human behaviour so as to promote mental health, prevent mental illness and provide comprehensive nursing care to persons suffering from mental illness and to support the family. It aims to equip students with skills of implementing mental care within the community setting following the PHC approach. As well as equipping the student with communication and interpersonal relationship skills in the context of prevention and care of those who are HIV/AIDS infected or affected.

AA.30 MODULE DESCRIPTOR: ETHOS AND PROFESSIONAL PRACTICE

Module title:	Ethos and Professional practice
Subject Code:	MNEP 3820
NQF Level:	8
Contact hours:	4 periods
Credits:	32
Module assessment:	Continuous assessment**:** 40% Examination: 50%
Prerequisite:	University Prerequisite for registration in fourth year.

Module description:
This module prepares the student nurse to practice nursing as a professional nurse practitioner and contribute to the professional development of registered nurses as practitioners who practice nursing within the philosophical/ethical and legal framework of the nursing profession.

AA.31 MODULE DESCRIPTOR: HEALTH RESEARCH METHODS

Module Title:	Health Research Methods
Subject Code:	MNRM 3820
NQF level:	8
Contact hours:	2 Hours per week x 28 weeks
Credits:	32
Module assessment:	Continuous assessment**:** 40% Examination: 50% 1x hour paper
Prerequisite:	None

Module Descriptor:
The module prepares the student to conduct research by applying all the research steps as an individual or a member of a research team. The ultimate goal is to prepare students to provide evidenced based care that promotes quality outcomes for patients, families, health care providers and the health system

AA.32 MODULE DESCRIPTOR: RESEARCH PAPER IN HEALTH

Module Title:	Research paper in Health
Subject Code:	MNHR 3812
NQF level:	8
Contact hours:	4 Hours per week x14 weeks
Credits:	16
Module assessment:	A final assessment of the health research project (100 %) by two supervisors within the Department of Nursing and the external moderator.
Prerequisite:	None

Module Description:
This module is focusing on the completion of a research project of at least 15,000 words in a health related field by a final year student. The project needs to be independently completed by the student but with the supervision of two lecturers.

Module requirements:
Adhering to decided upon schedules is required as well as acting in an ethically manner. This includes maintaining academic integrity and adhering to regulations and rules as they apply to plagiarism.

AA.33 MODULE DESCRIPTOR: TRAUMA AND EMERGENCY CARE

Module title: Trauma and Emergency Care
Subject code: MNTE 3829
NQF level: 8
Contact hours: 2 x 14weeks
Credits: 8
Prerequisites: MNGN3780

Module assessment: Continuous assessment: 40% [minimum of two tests and one practical assessment]
Examination**:** 50% 1x 3 hour's paper and one objective *structured clinical evaluation* (OSCE)

Module description:
The aim of this module is to prepare the health care student to act logically and systematically when confronted with patients in life threatening emergency or trauma situations. The presentation of this module requires that certain basic knowledge and skills related to health care delivery have been already mastered. The framework of this module is based on the internationally recommended *Advanced Trauma Life Support* (ALTS) guidelines

B. BACHELOR OF RADIOGRAPHY (DIAGNOSTIC) CURRICULUM FRAMEWORK TOTAL CREDITS: 560 (INCLUDING 40 UNAM CORE)

B.1 ADMISSION REQUIREMENTS:

To register in this program, a candidate should hold a valid Namibian Senior Secondary Certificate (NSSC) at ordinary level and NSSC at Higher level or equivalent. Candidates should obtain a minimum of 25 points on the Unam Evaluation Point Scale to be admitted. (A pass in at least five subjects) English is a compulsory subject with a C- result or better. Note: Annually after registration, every student must furnish the Faculty with proof of current registration as a student with the Allied Health Professions Council of Namibia.

To be able to register for the Bachelor in Radiography (Diagnostic), a candidate must comply with the following conditions:

- Hold a valid Namibian Senior Certificate (NSSC) at ordinary level or NSSC at higher level or equivalent.
- English as a compulsory subject and should normally be obtained as a second language grade C or better as second language, or a grade D or better as a first language
- Mathematics grade D or better and Physical Science subject grade D or better
- A candidate must obtain a minimum of 25 points in five subjects on the UNAM Evaluation Point Scale to be admitted.
  However, when the minimum of 25 points is obtained, it does not necessarily ensure admission. Entrance is based upon places available within the Faculty and awarded on the basis of merit;
- Admission will also be considered for persons who qualify through the Mature Age Scheme;
- Annually produce proof of registration as student with the Allied Health Professions Council of Namibia;

B.2 DURATION OF THE STUDY:

The minimum duration for full time students enrolled for Bachelor of Radiography (Diagnostic) degree will be four (4) years with a maximum period of six (6) years.

B.3 PROFESSIONAL DEVELOPMENT PLACEMENT:

The award of the degree is subject to satisfactory completion of the requirements of the University and the Allied Health Professions Council of Namibia.

The award of the degree is subject to satisfactory completion of practical tuition at the training hospitals, namely, Windhoek state hospital complex and Oshakati hospital, including a rural placement rotation.

B.4 DELIVERY MODE:

This degree will be delivered through face- to- face mode with the other faculties within the University and the main stakeholders namely, the Ministry of Health and Social Services (MOHSS).
Clinical teaching will be done in collaboration with assistance of the Clinical Instructors at the Health facilities, whereas some clinical procedures will be conducted in the simulation laboratories at the Faculty in order to strengthen clinical skills, and also to correlate the theory with clinical practice.

B.5 IMPLEMENTATION:

The commencement of the degree is based on the readiness of the faculty in terms of human resources, physical facilities and teaching material. The faculty is positive regarding changes within the infrastructure, which are required for the provision of quality care to the Namibian society.

A "phasing in and a phasing out" approach will be followed. The diploma in radiography will phase out, as the Bachelor of Radiography will phase in. It is recommended that the students should complete all failed and outstanding modules through the distance education mode.

B.6 TEACHING–LEARNING MODEL:

The teaching and learning model will be based on a student – centred approach which is characterised by self study elements, fieldwork, lectures, projects, individual and group activities, discussions and as tutorials.

B.7 ASSESSMENT:

Assessments will be based on general regulations of the specific faculty, explained as follows:

Faculty of Medical and Health Sciences

(a) Continuous assessment = 40% (practical, tests, assignments, projects)

(b) Final Examination 50%

Others Faculties

Depending of the specific faculty's regulations

B.8 QUALITY ASSURANCE:

This will be based on the general regulations of the University of Namibia and includes collaboration and utilization of external assessors from within and outside Namibia.

B.9 ACCREDITATION OF OTHER QUALIFICATIONS:

The faculty will need to revise current approved guidelines to be in line with the new approved curriculum

B.10 CONFIRMING OF DEGREE:

A student shall be awarded the degree of Bachelor of Radiography (Diagnostic) if s/he has passed all prescribed modules.

B.11 MINIMUM REQUIREMENTS AND ADVANCEMENT RULES:

Minimum requirements for re-admission into faculty

A student will not be re-admitted into the Faculty if s/he has not passed at least:

- **4** Modules (equivalent to 64 credits) at the end of the end of the First Year of registration; at least 2 Modules should be non-core.
- **9** Modules (equivalent to 128 credits) at the end of the of the Second Year of registration including all UNAM core modules.
- **16** Modules(equivalent to 256 credits) at the end of the Third Year of registration
- **25** Modules (equivalent to 400 credits) at the end of the Fourth Year

B.12 ACADEMIC ADVANCEMENT RULES (MINIMUM NUMBER MODULES TO BE PASSED FOR PROMOTION TO THE NEXT YEAR):

A student advances to the following academic level of study when at least 2/3 of the courses of the curriculum for a specific year has been passed. If a student passed only one third (1/3) of the full curriculum of a specific year. S/he may not register for any course on the next level. In all cases prerequisite for courses have to be passed before a student can proceed to register for courses that requires a prerequisite.

9 modules (equivalent to 144 credits) out of the 14 courses prescribed for **Year 1**
6 modules (equivalent to 96 credits) out of the 10 courses prescribed for **Year 2**
6 modules (equivalent to 96 credits) out of the 10 courses prescribed for **Year 3**
All modules prescribed for the curriculum

The above-mentioned implies that a student who does not complete the Bachelor of Radiography (Diagnostic) Degree within the prescribed duration of study has two years left to complete the remaining modules.

B.13 PRACTICALS (Component B):

The practical learning experience and clinical teaching prescribed in the (b) section of a course will take place in a variety of health care services. The practice is coordinated with the guidance of lectures and preceptors. The clinical learning experience must extend over three academic years.

B.14 . BACHELOR OF RADIOGRAPHY (DIAGNOSTIC) CURRICULUM FRAMEWORK TOTAL CREDITS: 560 (INCLUDING 40 UNAM CORE)

YEAR 1

Semester 1					**Semester 2**				
Module	**Code**	**Hours**	**Credits**	**NQF Level**	**Module**	**Code**	**Hours**	**Credits**	**NQF Level**
Radiation Technique 1	MRRT 3560	2	8	5	Radiation Technique 1	MRRT 3560	2	8	5
Clinical Radiation Technique 1	MRCR 3560	8 hour clinical attachment	4	5	Clinical Radiation Technique 1	MRCR 3560	8 hour clinical attachment	4	5
Radiographic Principles Materials &Processing	MRRP 3571	4	16	5	Radiographic Image Characteristics	MRRP 3572	4	16	5
Method of patient Care and preparation	MRPC3571	2	8	5	Physics for Radiographers	SPHY 3402	2	8	4
Basic Human Anatomy	MNAB 3559	4	16	5	Applied Human Anatomy	MNAB 3552	4	16	5
Health Care Dynamics	MNHD 3421	2	8	4	History of Radiography, Ethics and Professional Practice	MRHE 3572	4	16	5
Contemporary Social Issues	UCSI 3429	2	8	4					
Computer Literacy	UCLC 3409	2	8	4					
English communication and study skills	ULCE 3419	2	8	4	English for Academic Purposes	ULEA 3419	2	8	4
TOTAL		28	84		TOTAL		26	76	
TOTAL CREDITS: 160 **8 hour clinical attachment equals 4 credits**									

YEAR2

Semester 3					**Semester 4**				
Module	**Code**	**Hours**	**Credits**	**NQF Level**	**Module**	**Code**	**Hours**	**Credits**	**NQF Level**
Radiation Technique 2	MRRT 3670	4	16	6	Radiation Technique 2	MRRT 3670	4	16	6
Clinical Radiation Technique 2	MRCR 3660	16 hour clinical attachment	8	6	Clinical Radiation Technique 2	MRCR 3660	16 hour clinical attachment	8	6
Radiographic Qual.Contr, Qual..Assur.& Modern Tech.Imaging	MRQC 3671	4	16	6					
Basic Human Physiology	MNAB 3639	4	16	6	Applied Human Physiology	MNAB 3632	4	16	6
Principles of Apparatus Construction and Utilization	MRAC 3661	2	8	6	Applied Apparatus Construction and Utilization	MRAC 3662	2	8	6
Radiography Ethics and Prof.Practice	MRHE 3571	4	16	5	Patho-physiolog	MRPP3662	2	8	6
TOTAL		34	80		TOTAL		28	56	
TOTAL CREDITS: 136 **16 hour clinical attachment equals 8 credits**									

YEAR3

Semester 5					**Semester 6**				
Module	**Code**	**Hours**	**Credits**	**NQF Levels**	**Module**	**Code**	**Hours**	**Credits**	**NQF Levels**
Radiation Technique 3	MRRT 3770	2	8	7	Radiation Technique 3	MRRT 3770	2	8	7
Clinical Radiation Technique 3	MRCR 3760	8 hour clinical attachment	4	7	Clinical Radiation Technique 3	MRCR 3760	8 hour clinical attachment	4	7
Radiation Protection	MRPS3770	4	16	6	Radiation Protection	MRPS 3770	4	16	6
Radiobiology	MRRB3770	4	16	7	Radiobiology	MRRB 3770	4	16	7
Pharmacology for Radiographers	MRPR3770	4	16	7	Pharmacology for Radiographers	MRPR 3770	4	16	7
Radiographic Film Critique	MRFC 3760	2	8	7	Radiographic Film Critique	MRFC 3760	2	8	7
TOTAL		24	68		TOTAL		24	68	
TOTAL CREDITS: 136 **8 hour clinical attachment equals 4 credits**									

YEAR4

Semester 7					**Semester 8**				
Module	**Code**	**Hours**	**Credits**	**NQF Levels**	**Module**	**Code**	**Hours**	**Credits**	**NQF Level**
Radiation Technique 4	MRRT 3870	4	16	8	Radiation Technique 4	MRRT 3870	4	16	8
Health Research Methods	MNHR 3820	2	8	8	Health Research Methods	MNHR 3820	2	8	8
Management for Radiographers	MRMR 3810	4	16	8	Management for Radiographers	MRMR 3810	4	16	8
Radiographic Pathology	MRRP 3870	2	8	8	Radiographic Pathology	MRRP 3870	2	8	8
Clinical radiation Technique 4	MRCR3880	4	16	8	Clinical radiation Technique 4	MRCR 3880	4	16	8
					Research Paper in Health	MNHR 3812	4	16	8
TOTAL		28	56		TOTAL		32	72	
TOTAL CREDITS: 128									

B.15 MODULE / CODES AND RESTRICTION ON MODULES

YEAR1

MODELS	CODES	PRE- REQUISITE	CO-REQUISITE	
Applied Human Anatomy	MNAB3552		MNAB3531	
English for academic Purposes skills	ULEA3419	UICE3419		
Radiographic Image Characteristics	MRRP3572		MRRP3571	

YEAR2

Radiation Technique 2	MRRT3670	MRCR3570/MRCR3570		
Clinical Radiation Technique	MRCR3660	MRRT3570 MRCR3560		
Radiographic Quality Control, Quality Assurance and Modern Imaging Technique	MRQC3671	MRRP3572		
Basic Human Physiology	MNAB3639	MNAB3532		
Principles of Apparatus Construction and Utilization	MRAC3661	SPHY3402		

YEAR 3

Radiation Technique 3	MRRT3770	MRRT3670 MRCR3660		
Clinical Radiation Technique 3	MRCR3760	MRRT3670 MRCR3660		
PathoPhysiology	MRPP3739		MNAB3739	

YEAR 4

Radiation Technique4	MRCR3880	MRRT3770 / MRCR3760		
Radiographic Pathology	MRRP3870	MRRT3770/ MRCR3760		
Clinical Radiation Technique4	MRCR3880	MRRT3760 MRCT3760		

BB. MODULE DESCRIPTION (SYLLABI)

Year 1
Semester 1

BB.1 MODULE DESCRIPTOR: RADIATION TECHNIQUE 1

Module title:	Radiographic Technique I
Code:	MRRT3570
NQF level:	5
Contact hours:	2 hours per week x 28 weeks
Credits:	16
Module assessment:	Continuous assessment 40% (Minimum 4 tests/assignment) Examination assessment 50%:1 x 3hour paper
Pre-requisites/co requisites:	None

Module description:
This module aims at developing the theoretical and practical experience of fundamentals of practical radiography. It develops the skills necessary for examination of patients and for producing actual radiographs. It will enable the student to understand and apply the fundamentals and introductory concepts of positioning techniques and their application in radiography.

BB.2 MODULE DESCRIPTOR: METHODS OF PATIENT CARE AND PREPARATION

Module title:	Methods of patient care and Preparation
Code:	MRPC 3571
NQF level:	5
Contact hours:	2 hour pert week x 14 weeks
Credits:	8
Module assessment:	Continuous assessment 40% (Continuous assessment by the lecturer, completion of specific goals in Record of Practical Training book and practical assessments on site 2 clinical evaluations per semester) Examination assessment 50% (1x3 hour paper)
Pre-requisites/co requisites:	None

Module description (content):
This course is design to introduce the students to the practical basic concepts of patient care and preparation including cardiopulmonary resuscitation , elements of first aid, aseptic techniques and the care necessary for ensuring the safety of the patient in the medical imaging department.

BB.3 MODULE DESCRIPTOR: RADIOGRAPHIC PRINCIPLES AND MATERIALS AND PROCESSING

Module title:	Radiographic Principles and Materials
Code:	MRRP 3571
NQF level:	5
Contact hours:	4 lectures per week for 14 weeks
Credits:	16
Module assessment:	Continues assessment 40% (Minimum 2 tests and 1 assignment) Examination 50 %: 1 x 2 hour paper
Pre-requisites:	None

Module description:
This module contains information that should enable the student to discuss definitions and principles of photographic materials, to understand the radiographic process, silver recovery and the presentation and viewing of radiographs. The student will be introduced to basic principles of image production and the apparatus involved. It also contains information that should enable the students to understand and explain all aspects of radiographic processing, silver recovery methods, presentation and viewing of radiographs, matters regarding film storage and miniaturization.

BB.4 MODULE DESCRIPTOR: BASIC HUMAN ANATOMY

Module title:	Basic Human Anatomy
Code:	MNAB 3551
NQF Level:	5
Contact Hours:	4 periods per week for 14 Weeks
Credits:	16
Module Assessment:	Continuous assessment: 40% (Minimum 4 tests/assignment) Examination: 50% - One 3hour paper
Pre- requisite:	None

Module Description:
This module aims at equipping the health care student with anatomical knowledge as well as biophysical principles in order to apply these in their daily health care activities at the clinic, health centre, and hospital and community levels. The focus of this module is on the digestive system, nervous system ,endocrine system, urinary system and the reproductive system.

BB.5 MODULE DESCRIPTOR: HEALTH CARE DYNAMICS

Module title:	Health Care Dynamics
Code:	MNHD 3421
NQF Level:	4
Contact hours:	2 per week x 14 weeks
Credits:	8
Module assessment:	Continuous assessment: 40% (Minimum 2 tests) Examination: 50 % - 1x2hour paper
Pre-requisite:	None

Module description:
This module aims at introducing the student to the art and science of professional practice in Health Science by means of a core curriculum. It will enable the student to develop competency in a professional approach and to develop insight and skills in the complexities of the caring relationship. By introducing the students to Professional practice they will be enabled to understand the art and science of the health care profession. It will also introduce the health care student to problem - solving and critical thinking in health care practice. This module will also enable the student to understand the holistic approach to the caring relationship and the importance of developing the interpersonal skills to sustain a caring relationship and develop skills in self care

BB.6 MODULE DESCRIPTOR: CONTEMPORARY SOCIAL ISSUES

Module title:	Contemporary Social Issues
Code:	UCSI 3429
NQF:	4
Contact Hours:	2 Contact hours per week for 5 weeks (Social Ethics) 2 Contact hours per week for 5 weeks (HIV/AIDS) 2 Contact hours per week for 4 weeks (Gender)
Credits:	8
Module Assessment:	A student is expected to write either one assignment or a test for the continuous assessment (CA). CA contributes 50% of the total marks and the three units make the CA. Examination 50% (1 X 3 Hours examination paper). The final examination comprises a three hour examination paper. The question paper consists of one third of each unit.
Prerequisite:	None

Module Description:

Social Ethics:	The module raises awareness on the need for a personal, national and global ethics. The main objectives of the course is to help students reflect on the social moral issues; to discover themselves in a learner-centered, contextual, religious and life related setting. It also stimulates students for critical thinking and helps them to appreciate their values, standards and attitudes.
HIV/AIDS	This unit orientates students with regards to the epidemiology of HIV/AIDS; the prevalence of the disease on Namibia, Africa and Internationally. It also informs students on the psycho social and environmental factors that contribute to the spread of the disease, the impact of HIV/AIDS on their individual lives, family and communities at large. The module further seeks to enhance HIV/AIDS preventive skills among students by means of paradigm shift and behavior change.
Gender	The ultimate goal of this unit is to impart general introductory knowledge on gender. The main objectives of the unit are to make students aware, as well as sensitize them towards gender issues and how they affect our society, Sub-Region and continent at large.

BB.7 MODULE DESCRIPTOR: COMPUTER LITERACY

Module title:	Computer Literacy
Code:	UCLC 3409
NQF level:	4
Contact hours:	2 lecture periods practical and 1 lecture period / week for 14 weeks
Credits:	8
Module assessment:	Continuous Assessment 2 Practical Tests 50% and 2 Theory Tests 50%
Prerequisites:	None

Module description:
This is a full course for one semester where the student is equipped with the necessary skills to use application software such as Word processing, Spreadsheet, Database, Presentations and Communications packages for increasing people's productivity. The module will cover the following topics. WINDOWS - Operating System. starting Microsoft Windows. Working with the mouse. closing Windows and shutting down the Computer. Manipulating Windows. Working with Menus. Working with Disks. Start menus and taskbar. Starting and closing a Program. Opening Multiple Programs. Creating documents. Creating Folders. Moving and Copying Documents and Folders. Renaming Documents and Folders. Deleting Documents and Folders and Using the Recycle Bin. Creating documents and Program Shortcuts. Understanding the Explorer. Starting the Explorer. Using a printer. MS WORD – What is Word processing. Creating and Saving a Word Document. Closing the Word Program. Using the Help System . Facilities available in creating a Word Document. The keyboard. Word Wrap. Checking Spellings and Grammar. Using the Thesaurus. Editing: Inserting Text. Overwriting and Replacing Text. Deleting Text. Copying and Moving Text. The Undo and Redo Commands. Formatting: Working with Fonts. Aligning Text. Indenting Texts and Adding Bullets. Margins, Paper Size, Orientation, and Line Spacing. The Ruler and Working with Tabs. Using Templates. Inserting Dates and Times. Tables: Creating a Table. Entering and Aligning Text in a Table. Working with Rows and Columns. Adding borders and Shading. Using the Drawing Toolbar. Filling colours to objects and other effects. Auto shapes. Clip Art. Textbox and Word Art. MS EXCEL - What is a Spreadsheet. Starting and exiting Excel. Creating a New Excel file and opening an existing File. Moving around the worksheet, getting help. entering data in your workbook. Adjusting the column and row widths. Using automated features to simplify work. Improving the looks of worksheet by using formatting functions. naming, deleting and moving ranges. How formulas work. Copying of formulas. Creating graphs and charts. Printing the workbook. Working with different worksheets. MS ACCESS What is a Database?

Creating a Database Structure. Modifying the Database Structure. Entering your records. Tables. Queries. Forms. Reports. MS POWERPOINT - Starting PowerPoint, Creating a File and Closing. Creating a Slide Show with the help of AutoContent Wizard. Design Templates and Blank Presentations. Enhancing the Appearance of your presentation by formatting text, creating a bulleted list, adding a header, footer and note, adding transitions and animation. Formatting text, Formatting slide design. Printing. Other Important aspects of PowerPoint e.g. planning your presentation adding notes to your slides. INTERNET - Introduction: Description of Internet, Internet Hardware and Software, Communication Protocol Requirements. Understanding the Internet Explorer. The MSN Home Page and Facilities. Searching the Internet. Search Engines. Downloading of Files. E-MAILING - Creating and Sending messages. Sending a single message to many recipients. Attachments. Saving your message. Receiving and Working messages.

BB.8 MODULE DESCRIPTOR: ENGLISH COMMUNICATION AND STUDY SKILLS

Module title:	English Communication and Study Skills
Code:	ULCE 3419
NQF Level:	4
Contact hours:	4 hours per week for 14 weeks
Credits:	16
Module Assessment:	Continuous assessment (60%) 2 tests (reading and writing) 2 reading assignments 1oral presentation Examination (40%): 1 x 3 hour examination paper
Pre-requisites:	C symbol in English at NSSC (O) or equivalent. or ULEG2410

Module description:
This module is aimed at assisting students in the development of their reading, writing and speaking skills, in order to cope with studying in a new academic environment and in a language which may not be their first language. The module serves as an introduction to university level academics, where styles of teaching and learning differ from those at secondary schools in that more responsibility is placed on the student. The module therefore, focuses on the skills that students need throughout their academic careers and beyond.

Semester 2

BB.9 MODULE DESCRIPTOR: RADIOGRAPHIC IMAGE CHARATERISTICS

Module title:	Radiographic Image Characteristics
Code:	MRRP 3572
NQF level:	5
Contact hours:	4 lectures per week for 14 weeks
Credits:	16
Module assessment:	Continuous assessment 40% (Minimum 2 tests and 1 assignment) Examination 50 %:1x 2 hour paper
Co-requisites:	Radiographic Principles and Materials (MRRP 3571)

Module description:
This module contains information that should enable the student to understand the characteristics of invisible ,radiographic and fluoroscopic images, explain subject contrast 'radiographic contrast and un sharpness ,graininess, film faults and artefacts and matters referring to the above-mentioned. This course will compound the concepts of radiography imaging to the student. Practical work in the x-ray department will form part of the course.

BB.10 MODULE DESCRIPTOR: APPLIED HUMAN ANATOMY

Module title:	Applied Human Anatomy
Code:	MNAB 3552
NQF Level:	5
Contact hours:	4 periods per week for 14 weeks
Credits:	16
Module assessment:	Continuous assessment: 40% (Minimum 3/assignment) Examination: 50% - 1X 3 hours paper
Co-requisite:	Introduction to Anatomy (MNAB 3539)

Module description:
This module aims at equipping the health care student with anatomical knowledge as well as biophysical principles in order to apply these in their daily health care activities at the clinic, health centre, and hospital and community levels. This module focuses on the following systems: medical terminology, the human cell , human tissue and the integumentory system.The musculo-skeletal system and the articulations.

BB.11 MODULE DESCRIPTOR: PHYSICS FOR RADIOGRAPHERS

Module Title:	Physics for Radiographers
Code:	SPHY 3402
NQF Level:	4
Contact Hours:	28
Credits:	8
Module assessment:	Continuous assessment 50%, one 2 hour exam 40%. Continuous assessment is based on class tests, assignments and minimum 7 practical sessions
Pre-requisites:	None

Module Description:
The aim of this module is to provide the students with basic background in mostly electromagnetic radiation, elementary quantum theory and atomic structure as well as introduction to dosimetry and particle detectors. This course is a pre-requisite for a course on apparatus construction, offered by the Faculty of Medical and Health Sciences. The course will cover the following topics:

Electromagnetic radiation - generation and propagation, speed, frequency, wavelength, electromagnetic spectrum; elementary quantum theory – photoeffect, *x*-ray generation and scattering, line spectra; atomic structure - electroneutral atom, atomic energy levels of hydrogen atom and multi-electron atoms; atomic nucleus - structure of the nucleus, nuclear forces, isotopes; radioactive decay - half-life, law of radioactive decay, activity of a radioactive sample; detectors of radioactive particles; *X*- and *Gamma*-rays and their interactions with matter – photo-absorption, Compton scattering, pair-production; homogeneous and heterogeneous beams, *x*-ray spectra; intensity of *x*- and *gamma*-radiation as a function of distance to the source and as a function of the thickness of the absorber; attenuation coefficients; half-value layer; filters; effects of the different absorption modes on the clarity and quality of a radiographic image; dosimetry - absorbed dose; exposure; dosimetric devices; maximum permissible doses

BB.12 MODULE DESCRIPTOR: ENGLISH FOR ACADEMIC PURPOSES

Module title:	English for Academic Purposes
Code:	ULEA 3419
NQF level:	4
Contact hours:	4 periods per week
Credits:	16
Module assessment:	Continuous assessment: 60%. Two graded assessments in reading and writing skills. One graded assessment based on a referenced academic essay. One graded assessment of presentation skills. Examination: 40%: 1x 2 hour paper.
Prerequisites:	ULCE 3419 or B in English at NSSC or 4 in English at HIGHER GRADE NSSC

Module description: This course develops a student's understanding, and competencies regarding academic conventions such as: academic reading, writing, listening and oral presentation skills for academic purposes. Students are required to produce a referenced and researched essay written in formal academic style within the context of their university studies. Students are also required to do oral presentations based on their essays. The reading component of the course deals with academic level texts. This involves students in a detailed critical analysis of such texts. The main aim is, therefore, to develop academic literacy in English.

Semester 4

BB.13 MODULE DESCRIPTOR: HISTORY OF RADIOGRAPHY, ETHICS AND PROFESIONAL PRACTICE

Module title:	History of Radiography, Ethics and Professional
Code	MRHE3572
NQF level:	5
Contact hours:	4 lectures per week for 14 weeks
Credits:	16
Module assessment:	Continuous assessment 40% (Minimum 3 tests/assignment) Examination 50 %: 1 x 3 hour paper
Pre-requisites:	None

Module description (content):
This module contains information that should enable the student to have background knowledge in the discovery, history of the use of x-radiation. It will also fully acquaint the student with legal, ethical and professional responsibility and behaviour required of qualified radiographer

YEAR 2
Semester 3

BB.14 MODULE DESCRIPTOR: RADIATION TECHNIQUE 2

Module title:	Radiographic Technique 2
Code:	MRRT 3670
NQF level:	6
Contact hours:	4 hours per week x 28 weeks
Credits:	32
Module assessment:	Continuous assessment 40% (Minimum 4 tests/assignment) Examination 50% 1 x 3hour paper
Pre-requisites/co requisites:	Radiographic Technique 1(MRRT 3570) & Radiographic Technique Clinical Practice 1(MRCR 3570)

Module description:

This module continues the theoretical experience of the fundamentals of practical radiography. It develops the necessary knowledge for the examination of patients and producing actual radiographs.

BB.15 MODULE DESCRIPTOR: RADIOGRAPHICQUALITY CONTROL, QUALITY ASSURANCE AND MODERN IMAGING TECHNIQUUES

Module title:	Radiographic Image Characteristics
Code:	MRIC 3671
NQF:	6
Contact hours:	4 lectures per week for 14 weeks
Credits:	16
Module assessment:	Continuous assessment 40% (Minimum of 3 tests/assignments) Examination 50 %: 1 x 3 hours paper
Pre-requisites:	Radiographic Processing (MRRP 3572)

Module description:
This module contains information that should enable the student to understand the characteristics of the invisible, radiographic and fluoroscopic images, explain subject contrast, differential attenuation, scatter radiation, film contrast, radiographic contrast and unsharpness, graininess, film faults and artifacts and matters referring to the above-mentioned. This course will compound the concepts of radiographic imaging to the student. Practical work in the x-ray department will form part of this course.

BB.16 MODULE DESCRIPTOR: CLINICAL RADIATION TECHNIQUE 2

Module title:	Clinical Radiation Technique 2
Code:	MRCR 3660
NQF level:	6
Contact hours:	16 hour clinical attachment per week x 28 weeks
Credits:	8
Module assessment:	Continuous assessment 40% (Continuous assessment by the lecturer, completion of specific goals in Record of Practical Training book and practical assessments on site 2 clinical evaluations per semester) Examination assessment 50% (1 clinical evaluation and 1 OSCE)
Pre-requisites/co requisites:	Radiation Technique 1(MRRT 3570) & Radiation Technique Clinical Practice 1 (MRCR 3560)

Module description:
This module continues to link the theoretical component with practical skills and teach the student in the clinical area the techniques required for general practice in the imaging department.

BB.17 MODULE DESCRIPTOR: BASIC HUMAN PHYSIOLOGY

Module Title:	Basic Human Physiology
Code:	MNAB 3639
NQF Level:	6
Contact hours:	4 periods per week x 14weeks
Credits:	16
Module assessment:	Continuous assessment: 40% (Minimum3 test/assignment); Examination: 50%
Pre- requisites:	Applied Anatomy (MNAB 3532)

Module description:
This module aims at equipping the health care student with knowledge and skills with regard to normal human functioning (physiology) and biochemistry in order to detect any deviation from the normal functioning and thus relate this module to wellness and disease topics. This module focuses on the cardiovascular-respiratory and the integumentory system.

BB.18 MODULE DESCRIPTOR: PRINCIPLES OF APPARATUS CONSTRUCTION & UTILIZATION

Module title:	Principles of Apparatus Construction and Utilization
Code:	MRAC 3661
NQF level:	6
Contact hours:	2 lectures per week for 14 weeks
Credits:	8
Module assessment:	Continuous assessment 40% (Minimum 3 tests/assignment) Examination assessment 50 %: 1 x 3 hour paper
Pre-requisite:	Physics for Radiographers (SPHY 3402)

Module description (content):
This course contains information that will enable the student to discuss definitions and principles of imaging equipment, to understand the layout and construction and basic technical detail of such equipment.

Semester 4

BB.19 MODULE DESCRIPTOR: RADIOGRAPHY, ETHICS AND PROFESIONAL PRACTICE

Module title:	Radiography, Ethics and Professional Practice
Code	MRHE3571
NQF level:	5
Contact hours:	4 lectures per week for 14 weeks
Credits:	16
Module assessment:	Continuous assessment 40% (Minimum 3 tests/assignment) Examination 50 %: 1 x 3 hour paper
Pre-requisites:	MRHE3572
Module description (content):	

This module contains information that should enable the student to have knowledge of professional aspects , scope of practice for radiographer registration requirements, responsibility and accountability, interdisciplinary relations, employer-employee relationships and general interpersonal relations in relation to the radiography profession.

BB.20 MODULE DESCRIPTOR: APPLIED HUMAN PHYSIOLOGY

Module Title:	Applied Human Physiology
Code:	MNAB 3632
NQA Level:	6
Contact hours:	4 periods per week x 14 weeks
Credits:	16
Module Assessments:	Continuous assessment: 40% (Minimum 3 tests/assignment) Examination: 50%
Co-requisite:	Introduction to Physiology (MNAB 3639)

Module description:
This module aims at equipping the health care student with knowledge and skills with regard to normal human functioning (physiology) in order to detect any deviation from the normal functioning and thus relate this module to wellness and disease topics This module focuses on the nervous -endocrine system, the renal system, with concepts of fluid and electrolytes, nutrition and digestion as well as the reproductive system. .

BB.21 MODULE DESCRIPTOR: APPLIED APPARATUS CONSTRUCTION & UTILIZATION

Module title:	Applied Apparatus Construction and Utilization
Code:	MRAC 3662
NQF level:	6
Contact hours:	2 lectures per week for 14 weeks
Credits:	8
Module assessment:	Continuous assessment 40% (Minimum 3 tests/assignment) Examination 50 %: 1 x 3 hour paper
Pre-requisite:	Principles of Apparatus Construction & Utilization (MRAC 3661)

Module description:
This course contains information that will enable the student to discuss definitions and principles of imaging equipment, to understand the layout and construction and basic technical detail of such equipment.

YEAR 3

Semester 5

BB.22 MODULE DESCRIPTOR: RADIATION TECHNIQUE 3

Module title:	Radiation Technique 3
Code:	MRRT 3770
NQF level:	7
Contact hours:	4 hours per weeks x 28 weeks
Credits:	32
Module assessment:	Continuous assessment 40% (Minimum 4 tests/assignment) Examination 50%:1 x 3hour paper
Pre-requisites:	Radiation Technique 2 (MRRT 3670) & Clinical Radiation Technique 2 (MRCR3660)

Module description:
This module completes teaching the techniques required for general practice in the department and provides the basis for contrast examinations and interventional procedures.

BB.23 MODULE DESCRIPTOR: CLINICAL RADIATION TECHNIQUE 3

Module title:	Clinical Radiation Technique 3
Code:	MRCR 3770
NQF level:	7
Contact hours:	16 hour clinical attachment per week x 28 weeks
Credits:	8
Module assessment:	Continuous assessment 40% (Continuous assessment by the lecturer, completion of specific goals in Record of Practical Training book and practical assessments on site 2 clinical evaluations per semester) Examination assessment 50% (1 clinical evaluation and 1 OSCE)
Pre-requisites:	Radiation Technique 2 (MRRT3670) & Clinical Radiation Technique 2 (MRCR3660)

Module description:
This module continues to link the theoretical component with practical skills and teach the student in the clinical area the techniques required for general practice in the imaging department.

BB.24 MODULE DESCRIPTOR: RADIOBIOLOGY

Module Title:	Radio-biology
Code:	MRRB3770
NQF level:	7
Contact hours:	4 periods per week x 28 Weeks
Credits:	32
Module assessment:	Continuous assessment 40% (Minimum 3 tests/assignment) Examination 50 %: 1 x 3 hour paper
Pre-requisites:	None

Module description: The course provides the basic knowledge and understanding of the biologic effects of ionizing radiation **CC.23 CC.23 BB.25MODULE**

DESCRIPTOR: PHARMACOLOGY FOR RADIOGRAPHERS

Module Title:	Pharmacology for Radiographers
Code:	MRPR3770
NQF level:	7
Contact hours:	4 periods per week x 28 Weeks
Credits:	32
Module assessment:	Continuous assessment 40% (Minimum 3 tests/assignment) Examination 50 %: 1 x 3 hour paper
Pre-requisites:	None
Module description:	The course is designed to enhance knowledge base of the student in the area of pharmacology therapy . Clinical pharmacology is a medical discipline , which on a scientific basis combines pharmacological and clinical expertise, with the ultimate goal of improving efficacy and safety in the clinic use of drugs.

BB.26 MODULE DESCRIPTOR: RADIATION PROTECTION

Module title:	Radiation Protection
Code:	MRPS3770
NQF level:	7
Contact hours:	4 lectures per week for 28 weeks
Credits:	32
Module assessment:	Continuous assessment 40% (Minimum 3 tests/assignment) Examination 50 %: 1 x 3 hour paper
Pre-requisites:	None
Module description:	This course provides the fundamentals of radiation safety.

BB.27 MODULE DESCRIPTOR: RADIOGRAPHIC FILM CRITIQUE

Module title:	Radiographic Film Critique
Code:	MRPS3760
NQF level:	7
Contact hours:	2 lectures per week for 28weeks
Credits:	16
Module assessment:	Continuous assessment 40% (Minimum 3 tests/assignment) Examination 50 %: 1 x 3 hour paper
Pre-requisites:	None

Module description:

This course contains information that' should enable the student to have knowledge and experience in film critique, apply film critique techniques and guidelines on radiographs of skull, hand , wrist , foot ankle ,chest and abdomen, evaluate radiographs in regard to technical and diagnostic quality, integrate clinical practice and classroom education and provide informed strategies for avoiding future errors.

Semester 6

BB.28 MODULE DESCRIPTOR: PATHOPHYSIOLOGY

Module title:	Pathophysiology
Code:	MRPP 3662
NQF Level:	6
Contact Hours:	4 periods per week x 14 Weeks
Credits:	16
Module Assessment:	Continuous Assessment 40% (Minimum 3 tests/assignment) Examination 50% 1 x 3 hour paper
Prerequisite:	Physiology and biochemistry for health care students (MNAB 3631 & MNAB 3632)
Co-requisite:	Microbiology **(**MNAB 3739)

Module Description:
The aim of this course is to equip students with knowledge and skills in pathophysiology in order for them to relate it to imaging presentations/manifestations as well as to provide optimum health care education (Secondary and tertiary prevention focused)

BB.29 MODULE DESCRIPTOR: APPARATUS CONSTRUCTION AND UTILIZATION

Module title:	Apparatus Construction and Utilization
Code:	MRAC 3762
NQF level:	7
Contact hours:	2 lectures per week for 14 weeks
Credits:	8
Module assessment:	Continuous assessment 40% (Minimum 3 tests/assignment) Examination 50 %:1 x 3 hour paper
Pre-requisites:	Radiographic Equipment (MRAC3761)

Module description:
This course contains information that will enable the student to discuss definitions and principles of imaging equipment, to understand the layout and construction and more advanced technical detail of such equipment.

Year 4
Semester 7

BB.30 MODULE DESCRIPTOR: RADIATION TECHNIQUE 4

Module title:	Radiation Technique 4
Code:	MRRT 3870
NQF level:	8
Contact hours:	4 hours per weeks x 28 weeks
Credits:	32
Module assessment:	Continuous assessment 40% passes mark for each module (minimum 4 modules per annum) Unit one: Quality assurance Unit two: Advances in diagnostic imaging Unit three: Pattern recognition and Role extension Unit four: Health systems management
Pre-requisites:	Radiation Technique 3 (MRRT 3770) & Clinical Radiation Technique 3 (MRCR 3760)

Module description:
This module aims at developing research, survey skill, seminar skills, management skills and basic clinical training skills applicable to radiography. It develops the skills necessary for knowledge of new technological and professional developments and their impact on radiographic practice. It will enable the student to have an insight into the impact of environmental conditions on the health and radiographic services.

Module requirements and expectations:
Eighty percent (80%) workshop attendance; punctuality; active participation in discussions; make use of lecturer consultation time; take notes during workshop presentations; acquisition of prescribed material; acquaint yourself with assessment policy; uphold academic integrity.

BB.31 MODULE DESCRIPTOR: HEALTH RESEARCH METHODS

Module title:	Health Research Methods
Subject Code:	MNHR 3820
NQF level:	8
Contact hours:	2 Hours per week x 28 weeks
Credits:	16
Module assessment:	Continuous assessment**:** 40% [a minimum of three tests /assignments] Examination: 50% 1x 3hours paper
Prerequisite:	None

Module Description:
The module prepares the student to conduct research by applying all the research steps as an individual or a member of a research team. The ultimate goal is to prepare students to provide evidenced based care that promotes quality outcomes for patients, families, health care providers and the health system

BB.32 MODULE DESCRIPTOR: MANAGEMENT FOR RADIOGRAPHERS

Module title:	Management for Radiographers
Subject code:	MRMR 3810
NQF level:	8
Contact hours:	4 hours per week x 28 weeks
Credits:	32
Module assessment:	Continuous assessment 40% in theory and clinical practice (Minimum 2 test/assignment) Examination 50%: 2 x 3 hour papers - One (1) hour practical evaluation in the clinical environment
Prerequisites:	None

Module description:
This module aims to equip the student with the necessary knowledge and skills that will enable the student to function optimally as a health service manager at primary health care settings(levels), therapeutic health care and rehabilitative health care levels, and manage any health care setting effectively and render quality health care (To the Namibia Population). The IMCI strategy aims to improve the case management skills of the health care worker (student), improve the health system required for effective management of childhood illness and improve family and community health practices.

BB.33 MODULE DESCRIPTOR: RADIOGRAPHIC PATHOLOGY

Module title:	Radiographic Pathology
Code:	MRRP 3870
NQF level:	8
Contact hours:	4 lectures per week for 28 weeks
Credits:	32
Module assessment:	Continuous assessment 40% (Minimum 3 tests/assignment) Examination 50 %:1 x 3 hour paper
Pre-requisites:	Radiation Technique 3 (MRRT 3770) and Clinical Radiation Technique 3 (MRCR 3760)

Module description:
This is an introduction to the concepts of disease. Pathology in disease as they relate to various radiographic procedures as discussed. Emphasis placed upon required variations in radiographic techniques in the presence of pathologies.

Semester 8

BB.34 MODULE DESCRIPTOR: RESEARCH PAPER IN HEALTH

Module title:	Research Paper in Health
Code:	MNHR 3812
NQF level:	8
Contact hours:	4 Hours per week x 14 weeks
Credits:	16
Module assessment:	A final assessment of the health research project (100%) by the two supervisors within the Department of Radiography and the external moderator
Prerequisite:	MNHR3811

Module Description:
This module is focusing on the completion of a research project of at least 15,000 words in a health related field by a final year student. The project needs to be independently completed by the student but with the supervision of two lecturers.

C. BACHELORS OF SCIENCE (PRE-MEDICAL) TRAINING:

C.1 ADMISSION:

To register for B.Sc. (Pre-medical) course of study, a candidate must hold a valid Namibian Senior Certificate(NSSC) at ordinary level and NSSC at Higher level or equivalent (with passes in at least five subjects), which add up to a given minimum number of 25 points, calculated using a specified UNAM scale.

In addition to the above, admission to B.Sc. Pre-medical course of study requires at least a C symbol pass in Mathematics, English, Biology, and Physical Science.

Meeting the minimum admission requirements does not necessarily ensure admission. This depends on places available. The Premedical Training Program prepare students to follow studies in the Medical Field e.g. Medicine, B-Pharmacy, Occupational therapy and Physiotherapy.
PLEASE NOTE THAT THE NUMBER OF PLACES IN THE COURSE IS EXTREMELY LIMITED. SELECTION WILL BE DONE TO DETERMINE PLACEMENT OF THE FIRST YEAR STUDENTS. Non Nationals candidates will not be considered directly into the programme .They can however do the Bachelor of Science with appropriate modules similar to (Premed students) to pursue their studies in a medical related field.

C.2 DURATION OF STUDY:

The Pre- Medical Training programme is a fix and will be completed in two years of study as it requires transfer to other Universities. Students not passing all the prescribed modules in the 1st year, and also not accepted by other Universities continue with the B.Sc. degree. Final year B.Sc. students can re-apply to SOUTH AFRICA.

C.3 EXAMINATION REGULATIONS

For detailed examination and promotion rules, see the General Information and Regulations Prospectus

C.4 ACADEMIC ADVANCEMENT RULES

Promotion from First to Second Year
A student must pass all modules/subjects in the First Year Curriculum in order to be allowed to register for the Full Second Year Curriculum.

Promotion from Second to Third year
A student in the Second Year must pass all subjects at the appropriate level in the Curriculum, in order to quality to be transferred to other universities.

C.5 PRACTICAL

Attendance of practical classes is compulsory

C.6 CURRICULUM COMPILATION:

YEAR 1

BACHELOR OF SCIENCE DEGREE PRE MEDICAL TRAINING CURRICULUM FRAME WORK

Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	NQF Level	Credits
English Communication Study skills	ULCE 3419	4	16	4	English for Academic Purposes	ULEA 3419	4	4	16
Introduction to Biology	SBLG 3411	4	16	4	Computer Literacy	UCLC3409	2	4	8
Basic Mathematics	SMAT 3511	4	16	5	Pre Calculus	SMAT 3512	4	5	16
Diversity of Life I	SBLG3115	4	16	5	Diversity of life	SBLG 3532	4	5	16
Chemistry1A	SCHM3411	4	16	4	Chemistry 1B	SCHM 3512	4	5	16
Physics of Life Sciences I	SPHY3401	4	16	4	Physics for life Sciences	SPHY 3412	4	16	4
					Contemporary Social Issues	UCSI 3429	2	16	8
TOTAL CREDITS = 180		24	CREDITS = 96				24		CREDITS = 84

YEAR 2 SEMESTER 1					SEMESTER2				
Module	**Code**	**Hours**	**Credits**	**NQF LEVEL**	**Module**	**Code**	**Hours**	**Credits**	**NQF LEVEL**
Cell Molecular Biology and Genetics	SMBL 3631	4	16	6	Introduction to Microbiology	SMBL 3632	4	16	6
					Human Biology	SMIC 3612	4	16	6
Biochemistry I	SCHB 3611	4	16	6					
Inorganic Chemistry1	SCHM 3611	4	16	6	Organic Chemistry	SCHM 3612	4	16	6
Animal Form and Function	SBLG 3611	6	16	6	Analytical Chemistry1	SCHM 3602	4	8	6
Community Health	MNCH 3630	2	16	6	Community Health	MNCH 3630	2	16	6
TOTAL CREDITS = 152		20	CREDITS= 80				18	CREDITS = 72	

CC. MODULE DESCRIPTIONS (SYLLABI)

CC.1 MODULE DESCRIPTOR: ENGLISH COMMUNICATION AND STUDY SKILLS

Module title: English Communication and Study Skills
Code: ULCE 3419
NQF Level: 4
National professional standard competencies: N/A
Contact hours: 4 hours per week
Credits: 16
Module Assessment: Continuous assessment 60%: 2 tests (reading and writing), 2 reading assignments, 1 oral presentation.
Examination assessment 40%: 1 x 2 hour examination paper
Pre-requisites: C symbol or equivalent in English at NCSS (O/H).

Module description:
This module is aimed at assisting students in the development of their reading, writing and speaking skills, in order to cope with studying in a new academic environment and in a language which may not be their first language. The course serves as an introduction to university level academics, where styles of teaching and learning differ from those at secondary schools in that more responsibility is placed on the student. The course, therefore, focuses on the skills that students need throughout their academic careers and beyond.
Module requirements and expectations:
At least 80% class attendance; active class participation. Students cannot be promoted to the third year if ULCE is failed

CC.2 MODULE DESCRIPTOR: ENGLISH FOR ACADEMIC PURPOSES

Module title: English for Academic Purposes
Code: ULEA 3419
NQF level: 4
Contact hours: 4 periods per week
Credits: 16
Module assessment: Continuous assessment: 60%. Two graded assessments in reading and writing skills. One graded assessment based on a referenced academic essay. One graded assessment of presentation skills. Examination: 40%: 1x 2 hour paper.
Prerequisites: ULCE 3419 or B in English at NSSC or 4 in English at HIGHER GRADE NSSC

Module description:
This course develops a student's understanding, and competencies regarding academic conventions such as: academic reading, writing, listening and oral presentation skills for academic purposes. Students are required to produce a referenced and researched essay written in formal academic style within the context of their university studies. Students are also required to do oral presentations based on their essays. The reading component of the course deals with academic level texts. This involves students in a detailed critical analysis of such texts. The main aim is, therefore, to develop academic literacy text in English.

Module requirements and expectations:
At least 80% class attendance, obtain prescribed material; punctuality; focus on learning and self-enrichment; active class participation; employment of effective note-taking skills in class; upholding of academic integrity; abiding by academic conventions accepted by UNAM, students cannot proceed to the third year if they fail this module.

CC.3 MODULE DESCRIPTOR: COMPUTER LITERACY

Module title: Computer Literacy
Code: UCLC 3409
NQF level: 4
Contact hours: 2 periods per week for 14 weeks
Credits: 8
Module assessment: Continuous Assessment 100%

Contribution to final Mark:
2 Practical Tests 50%
2 Theory Tests 50%

Prerequisites: None

Module description:

The aim of this module is to equip the student through hands-on experience with the necessary skills to use applications software such as Word processing, Spreadsheets, Database, Presentations and communications packages for increasing their productivity in an education and training environment.

Exit learning outcomes: **At the end of this module, candidates should be able to:**

- apply the concepts of information technology
- use the computer in an education and training environment
- manage Files and Folders
- use the MSWORD program to create letters, memos, reports, newsletters, manuals and manuals
- use the MS EXCEL to create electronic spreadsheets
- use the MS POWERPOINT to create slides, transparencies, handouts, and speaker notes
- use the MS ACCESS program to store, retrieves, and organizes information
- search the Internet information relevant to the education and training environment
- use the computer for electronic.

Module requirements and expectations:

Punctuality and regular attendance is compulsory; acquisition of prescribed material is compulsory; participate fully in all class activities, implement theoretical components using the computer laboratory and Microsoft**,** assignments handed in on time; plagiarism, cheating and other forms of academic dishonesty is prohibited; students with disabilities should contact their lecturers in advance to explain their needs; all module requirements must be fulfilled; assessment will only be done through continuous assessment, be aware of the University assessment policies.

CC.4 MODULE DESCRIPTOR: BASIC MATHEMATICS

Module title:	Basic Mathematics
Code:	SMAT 3511
NQF level:	5
Contact hours:	4 lectures per week for 14 weeks 2 tutorials per week for 14 weeks
Credits:	16
Assessment:	Continuous assessment 50% (at least 2 tests), examination 50% (3 hours examination paper).
Prerequisite:	IGCSE mathematics or special remedial course

Module description:

Sets: notations and diagrams to represent sets, subset, empty set, equality of sets, intersection, union, complement. Algebraic expressions: simplification, expansion, polynomials, reminder and factor theorem, partial fractions. Trigonometry: trigonometric functions, basic trigonometric identities. The absolute value, linear equations, linear inequalities, quadratic equations, the quadratic formula, quadratic inequalities. Functions: domain, codomain, image, preimage, even function, odd function. Sequences: the general term, the geometric sequence, the arithmetic sequence.

CC.5 MODULE DESCRIPTOR: PRECALCULUS

Module title:	Precalculus
Code:	SMAT 3512
NQF level:	5
Contact hours:	4 lectures per week for 14 weeks 2 tutorials per week for 14 weeks
Credits:	16
Assessment:	Continuous assessment 50% (at least 2 tests), examination 50% (3 hours examination paper).
Prerequisite:	IGCSE mathematics

Module description:

Functions: one-to-one and onto functions, horizontal line test, composition of functions, inverse of a function. Introduction to exponential and logarithmic functions. Limit of a function: definition, left and right limits, infinite limits, limits at infinity, continuity in terms of limits. Differentiation: rate of change, derivative of a function, rules of differentiation, increasing and decreasing functions and graph sketching. Integration: antiderivatives, the definite integral, area under a graph. Trigonometry: further trigonometric identities, area of a sector and segment of a circle, derivatives and integrals of trigonometric functions.

CC.6 MODULE DESCRIPTOR: INTRODUCTORY BIOLOGY

Module title:	Introduction to Biology
Code:	SBLG 3411
Course Equivalent:	Biology 1A
NQF level:	4
Contact hours:	4 lectures/ week for 14 weeks and one 3-hour practical session per week per semester.
Credits:	16
Module assessment:	Continuous assessment (40%): Theory (not less than 2 tests and 2 assignments), 40%
Practicals (not less than	10 marked assignment), 60%
	Examination (60%): 3 hour examination paper.
Pre-requisites:	IGCSE Biology

Module description:

It will consider organization of life, chemical basis of life, carbohydrates, proteins, nucleic acids, lipids and fats, water, cell structure and function, prokaryotic and eukaryotic cells, ultra-structure of plant and animal cells, cytoskeleton, membrane structure and function, enzymes, cell communication, mitosis, meiosis, cell reproduction, cell cycle, and cell death. Energy transfer through living systems, energy and metabolism, cellular respiration, and photosynthesis will also be studied. The course content will also include genes, chromosomes, genomes, Mendelian genetics, extensions to Mendelian genetics, chromosome theory of inheritance, linkage and cross-over, recombination, sex determination, gene mapping, DNA replication, mutations, central dogma, gene expression, gene regulation, genetic basis of development, the Hardy-Weinberg law and evolution. The course ends with an introduction to ecology and ecosystems.

CC.7 MODULE DESCRIPTOR: DIVERSITY OF LIFE I

Module title:	Diversity of Life I
Code:	SBLG 3511
Course Equivalent:	Biology 1B (BLG3112)
NQF level:	5
Contact hours:	4 lecture periods / week for 14 weeks and one three hour practical session per week per semester
Credits:	16
Module assessment:	
Continuous assessment:	Theory (not less that 2 tests and 2 assignments) 40% Practicals (not less that 10 marked assignments) 50%
Examination:	60% (1 x 2 hour examination paper)
Prerequisites:	HIGSCE/IGCSE Biology

Module description:
This course id designed to give students a detailed understanding of the diversity of life. This module is a mirror of the Diversity of Life II module that deals with animal diversity (vertebrate and invertebrate). This course gives students the broader appreciation of biodiversity in the different ecological habitats. The following topics will be covered: introduction to systems of classification, taxonomy and binomial nomenclature, including the five kingdom and the three domein system. This course will cover topics of viral, bacterial, fungal, algal and plant diversity. It then considers the characteristics and life cycles of the following important algae and plant groups: chlorophyta, phaeophyta, rhodophyta, chrysophyta, euglenophyta, pyrrophyta, cryptophyta, bryophytes, seedless vascular plants, gymnosperms, and the angiosperms.

CC.8 MODULE DESCRIPTOR: DIVERSITY OF LIFE II

Module title:	Diversity of Life II
Code:	SBLG3532
NQF level:	5
Contact hours:	4 hours lectures/week, 3 hrs practicals / week for 14 weeks
Credits:	16
Module assessment:	Continuous assessment 40% (Theory: 3 tests; practicals: no less than 10 marked assignments) Examination: 1 x 3 hrs theory paper (60%)
Prerequisites:	HIGSCE/IGSCE Biology C (and better)

Module description:
The course shall describe diagnostic characteristics of principle taxonomic categories for each phylum. Coverage of each Phylum shall follow a phylogenetic (evolutionary) approach as well as introduce broad ecological and physiological principles. Various aspects of reproduction and development shall be highlighted. This module prepares students to understand subsequent courses such as Introduction to Ecology, Population Ecology, Comparative physiology, Biogeography.

Content:
Introduction: Recap on classification, definitions and categories/groups within the Animal kingdom; evolution by natural selection (microevolution vs macroevolution), phylogeny and evolutional relationships in animals, homology and analogy; body symmetry (radial, bilateral), cephalisation, body cavities: diploblastic, triploblastic (acoelomate and coelomate [deuterostomes and protostomes]); Protostomate phyla: Nemertea, Mollusca, Anellida, Arthropoda, Nematoda, Rotifera, Lophophorates, Onychophora. Deuterostomate phyla: Echinodermata, Hemichordata and Chordata (Subphyla: Urochordata, Cephalochordata and Vertebrata: Class Myxiniformes, Petromyzontiformes, Placoderms, Chodrichthyes, Actinopterygii, Actinistia, Dipnoi, Amphibia, Reptilia, Aves, Mammalia). Examples from Namibia shall be used where possible and applicable. The course content shall be supplemented with appropriate weekly practical sessions in the laboratory and in the field.

CC.9 MODULE DESCRIPTOR: GENERAL CHEMISTRY MODULES:

Module title:	Chemistry 1A
Code:	SCHM3411
NQF Level:	4
Contact Hours:	56 hours of lectures, 14 hours of tutorial sessions and 42 hours of practical sessions.
Credits:	16
Module Assessment:	CA: 60 % (minimum 2 tests 75 %, laboratory component 15 %, tutorial assignments 10 %). Final Exam: 40 %; (1 x 3 hour exam paper)
Prerequisites:	Faculty Entry Requirements

Module Description:
This module is a brief introduction to general chemistry and it lays the foundation of basic facts necessary for further studies in chemistry. The following topics are covered:

An Introduction To Chemistry: Classification of Matter; The Three States of Matter; Physical and Chemical Properties of Matter; Measurement; Handling Numbers (scientific notation, significant figures); Factor-Label Method in Solving Problems. **Atoms, Molecules and Ions:** The Structure of the Atom; Atomic Number, Mass Number, and Isotopes; Molecules and Ions; Chemical Formulas (molecular and empirical); Naming Compounds. **Mass Relationships in Chemical Reactions:** Atomic Mass; Avogadro's Number and Molar mass; Molecular Mass; Percent Composition of Compounds; Experimental Determination of Empirical Formulas; Chemical Reactions and Chemical Equations; Stoichiometry (amounts of reactants and products); Limiting & Excess Reagents; Reaction Yield; Concentration of Solutions. **Reactions in Aqueous Solutions:** General Properties of Aqueous Solutions; Precipitation Reactions; Acid-Base Reactions; Oxidation and Reduction Reactions (assigning oxidation states; writing redox equations, balancing redox reactions). **Quantum Theory and the Electronic Structure of Atoms:** The Photoelectric Effect; Bohr's Theory of the Hydrogen Atom; Quantum Numbers; Atomic Orbitals; Electron Configuration; The Building-up Principle. **Periodic Relationships Among Elements:** Periodic Classification of the Elements; Periodic Variation in Physical Properties (effective nuclear charge, atomic radius, ionic radius); Ionization Energy; Electron Affinity; Variation in Chemical Properties of the Representative Elements (main group elements). **Chemical Bonding:** Lewis Dot Symbols; Ionic Bonding; Covalent Bonding; Metallic Bonding; Electronegativity; Writing Lewis Structures; Formal Charge; Concept of Resonance; Bond Enthalpy. **Molecular Geometry and Hybridization of Atomic Orbitals:** Molecular Geometry; Dipole Moments; Valence Bond Theory; Hybridization of Atomic Orbitals; Molecular Orbital Theory; Molecular Orbital Configurations.

CC.10 MODULE DESCRIPTOR: CHEMISTRY 1B

Module title:	Chemistry 1B
Code:	SCHM3512
NQF Level:	5
Contact Hours:	56 hours of lectures, 14 hours of tutorial sessions and 42 hours of practical sessions.
Credits:	16
Module Assessment:	CA: 60 % (minimum 2 tests 75 %, laboratory component 15 %, tutorial assignments 10% Final Exam: 40%; (1 x 3 hour exam paper)
Prerequisites:	Faculty Entry Requirements

Module Description:
This module is a continuation of Chemistry 1A and it is assumed that students have mastered the basic facts necessary to study the following topics.

Gases: Pressure of a Gas; The Gas Laws; The Ideal Gas Equation; Gas Stoichiometry; The Kinetic-Molecular Theory of Gases; Deviation from Ideal Behaviour. **Thermochemistry:** The Nature of Energy and Types of Energy; Energy Changes in Chemical Reactions; Introduction to Thermodynamics; Enthalpy of Chemical Reactions; Calorimetry; Standard Enthalpy of Formation and Reaction; Heat of Solution and Dilution. **Chemical Kinetics:** Rate of Reaction; Rate Law; Relation between Reactant Concentration and Time; Activation Energy and Temperature Dependence of Rate Constants; Reaction Mechanisms; Catalysis. **Chemical Equilibrium:** The Equilibrium Constant; Writing Equilibrium Constant Expressions; Relationship between Chemical Kinetics and Chemical Equilibrium; What Does the Equilibrium Constant tell Us? Factors that Affect Chemical Equilibrium. **Acid-Base Equilibria & Solubilty Equilibria:** The Common Ion Effect; Buffer Solution; Acid – Base Titrations; Acid-Base Indicators; Solubility Equilibria; Separation of Ions by Fractional Precipitation; The Common Effect and Solubility; pH and Solubility; Complex Ion Equilibria and Solubility. **Entropy, Free Energy and Equilibrium:** The Three Laws of Thermodynamics; Spontaneous Processes; Entropy; The Second Law of Thermodynamics; Gibbs Free Energy; Free Energy and Chemical Equilibrium; Thermodynamics in Living Systems. **Introduction to Electrochemistry:** Galvanic Cells; Standard Reduction Potentials; Spontaneity of Redox Reactions; Effect of Concentration of Cell EMF; Electrolysis. **Introduction to Organic Chemistry:** Classes of Organic Compounds; Structure and Nomenclature Main Functional Groups (alkanes, alkenes, alkynes, alcohols, aldehydes, ketones, carboxylic acids, esters, amines, amides).

CC.11 MODULE DESCRIPTOR: PHYSICS FOR LIFE SCIENCES I

Module title:	Physics for Life Sciences I
Code:	SPHY3401
NQF level:	4
NPSC:	N/A
Contact hours:	28 Lectures and 14 Practical Sessions/Tutorials
Credits:	8
Module assessment:	Continuous Assessment (50%) and 1 3-hour Exam Paper (50%) Continuous Assessment will consist of class tests, tutorial tests/assignments and practical reports.
Pre-requisites/Co-requisites:	-

Module description (content):
This module is to introduce Life science students to physics concepts and applications that will be useful to them in their undergraduate studies and carrier. The course will cover the following topics:
Units and unit conversion, SI system and significant figures; Motion in one dimension, average velocity, acceleration, motion at constant acceleration, freely falling bodies; Vectors and scalars, addition and subtraction of vectors in one and two dimensions, multiplication of vectors, component method of vector addition in two dimensions; Projectiles in one and two dimensions; Force and weight, Newton's first, second and third laws, applications of Newton's laws, free-body diagrams, friction, motion on inclined planes; Uniform circular motion, period and frequency of motion, centripetal force, banking of curves; Newton's law of Universal gravitation, gravity near the Earth's surface, satellites; Kepler's first, second and third laws; Work done by a constant force, kinetic energy, work-energy theorem, potential energy, conservation of Mechanical energy, power; Momentum, conservation of momentum, collisions in one dimension, impulse, conservation of energy and momentum in collisions, elastic and inelastic collisions in one dimension.

CC.12 MODULE DESCRIPTOR PHYSICS FOR LIFE SCIENCES II

Module title:	Physics for Life sciences II
Code:	SPHY 3412
NQF Level:	4
National Professional:	None
Standard Competencies:	None
Contact Hours:	4 Lectures per week for 14 weeks, Practical Time: 14 sessions (42 hours)
Credits:	16
Module assessment:	Continuous assessment (50%, Minimum 2 tests, 4 assignments and practical reports) and Examination (50%,1 x 3-hour paper)
Pre-requisites:	IGSCE Physical Science
Co-Requisites:	SPHY 3401: Physics for Life Sciences I; SMAT3511: Basic Mathematics; SMAT3512: Pre-calculus; SSTS3512: Introduction to Statistics.

Module description (contents):
This module introduces life science students to concepts of physics and their application to real life situations, new topics that were not dealt with in PHY 3101 are introduced (i.e., on electricity, magnetism and radioactivity). The content of this course is good enough to help the life science students throughout their undergraduate work and careers. The following topics will also be covered: Electric charge; insulators and conductors; Electric force and coulomb's law , Electric field and Gauss's law; Electric potential; Capacitance and capacitors; Direct current; Ohm's law and simple circuits; Magnetic field; Alternating current; Transformers; Phenomenological approach to RL and RC circuits; Temperature, gas and thermal expansion; Basic geometrical optics; Radioactivity and its detection.

Year 2

CC.13 MODULE DESCRIPTOR: CELL MOLECULAR BIOLOGY AND GENETICS

Module title:	Cell Molecular Biology and Genetics
Course equivalent:	Cell and Molecular Biology /Microbiology + Molecular Genetics
Code:	SMBL 3631
NQF level:	6
Contact hours:	4 lecture periods / week for 14 weeks
Credits:	16
Module assessment:	Continuous assessment 40% (minimum of 2 tests and 2 Assignments) Examination 60% (1 x 2 hour examination paper)
Prerequisites:	Introduction to Biology SBLG 3411, Diversity of life I SBLG 3412, Diversity of life II SBLG 3431

Module description:

a) Theory

An introduction to the chemical basis of cellular processes: important elements, compounds and molecules as well as chemical bonds and their importance and roles in biochemical reactions are being looked at. The organization of the chloroplast and mitochondrion and their principal metabolic pathways are also reviewed. An introduction to cancer starting with the distinction between normal and abnormal cell division as well as studying at the genetic basis of cancer. There will be an overview of Mendelian & non-Mendelian Genetics: chromosomal theory of inheritance, sex determination & sex-linked genes, basic genetic linkage and chromosome mapping, and the Genetic Code. Structure and function of eukaryotic chromosomes and mutations as the basis for genetic variations.

This leads to the study of macromolecules such as proteins, enzymes and nucleic acids and their roles in cellular organization. This unit also examines the organization and control of genetic information in the production of proteins. The structure of DNA and and genome size and complexity will be described in the course as the fountation for Molecular Biology. An introduction to nucleic acid processes such as DNA replication covering the unit of replication (replicon), apparatus for DNA replication (primosomes and replisomes) An outline of Eukaryotic transcription and RNA processing: transcription complex including promoters, transcription factors ,RNA polymerase and the description of mechanisms of RNA splicing. An outline of Prokaryotic gene expression: control at initiation, RNA polymerase-promoter interactions, panolopy of operons and control at termination. Translation of Proteins through successive steps (initiation, elongation and termination) exploiting tRNA as the translational adaptor and ribosomes as the translational factory.

b) Practical

- isolation of DNA of from whole blood and tissues
- introduction to gel electropheresis
- and introduction to PCR
- The practical component will include analysis of genetic crosses using the fruit fly, *Drosophila melanogaster*, as a model organism.

CC.14 MODULE DESCRIPTOR: INTRODUCTION TO MICROBIOLOGY

Module title:	Introduction to Microbiology
Course Equivalent:	Introduction to Microbiology
Code:	SMBL 3632
NQA level:	6
Contact hours:	4 lectures per week for 14 weeks and one 3-hour practical session per week per semester.
Credits:	16
Module assessment:	Continuous assessment (40%): Theory (not less than 2 tests and 2 assignments), 50% Practicals (not less than 10 marked assignments), 50% Examination (60%): One 3-hour examination paper.
Prerequisites:	Introductory Biology (SBLG 3411).

Module description:

The course will include principles of microbiology, importance of microorganisms, microorganisms as cells, microorganisms and their natural environments, impacts of microorganisms on humans, and pathways of discovery in microbiology. It will also give an overview of microbial life, cell structure and evolutionary history, physiological diversity of microorganisms, prokaryotic diversity, and eukaryotic microorganisms. Other topics are microscopy and cell morphology, microbial cell membranes and cell walls, surface structures and inclusions, endospores, microbial motility and chemotaxis, staining techniques, microbial nutrition, culture media, laboratory culture of microorganisms, enrichment and isolation, isolation of pure cultures, bacterial cell division, growth of bacterial populations, measuring microbial growth, environmental effects on microbial growth, control of microbial growth, microbial evolution and systematics, Eubacteria, Archae, eukaryotic microorganisms, viruses, bacteriophages, prions, diversity of microbial metabolism, microbial ecology, and methods in microbial ecology.

CC.15 MODULE DESCRIPTOR: HUMAN BIOLOGY

Module title:	Human Biology
Code:	SMBL: 3652 Equivalent: BLG 3231
NQF Level:	6
Contact hours:	4L/week for 14 weeks (56h) + 1P/week for 14 weeks (42h)
Credits:	16
Module Assessment:	Continuous assessment: 40% (3 tests – 60% + at least 10 practical marks – 40%); Examination: 60% (1 x 3h examination paper)
Pre-requisite:	SCHM3512 Chemistry for Life Sciences SBLG3512Chemistry for life Sciences Diversity of life

Module description:

This module intends to provide the student with a thorough understanding of the structures and functions of different human body organs and systems, various diseases afflicting humans, e.g. Cancer, Stress and HIV/AIDS as well as the harmful effects of narcotic drugs. It will cover the following topics: Organs and accessory organs of the digestive system and their functions, digestion, absorption and nutrition of carbohydrates, proteins, lipids and, digestive enzymes, minerals and vitamins. The cardiovascular system, the structure and functions of the heart, blood vessels and cells. The pulmonary circuit and systemic circuit. Functions of blood, blood clotting mechanism and blood groups. The lymphatic system, structures of the lymphatic vessels and organs. The structures and functions of the respiratory system, external, internal and cellular respiration. Lung volumes. Exchange of gases in the alveoli. The functions of the respiratory epithelium and the mucus blanket. Factors affecting pulmonary ventilation. Kidney structure and functions. Glomerular filtration, tubular reabsorption and secretion. The role of juxtaglomerular apparatus in blood pressure regulation. The role of kidneys in electrolyte and acid base balance and homeostasis. The structure and functions of the peripheral nervous system,

cranial and spinal nerves, action and resting potentials. Impulse transmission across synapses and neurotransmitters. The neuroglia and their functions. The somatic and autonomic systems. The sympathetic and parasympathetic systems. The reflex arch. The structure and functions of the central nervous system. The structures and functions of the eye and the ear. The chemoreceptors and olfactory cells. The structure of the endocrine glands, their hormones and functions. Structures and functions of the male and female reproductive organs. The formation of male and female gametes. The role of hormones in reproduction. Human development and aging. Human population growth and pollution. Sexually-transmitted diseases including HIV/AIDS. Causes and prevention of cancers. Carcinogens, heredity and immunodeficiency. Characteristics of cancer cells and classification of cancers. Stress and the role of hormones in stress development. Drug Abuse: alcohol, nicotine, marijuana, cocaine, heroine, and their effects on body systems.

CC.16 MODULE DESCRIPTOR: INORGANIC CHEMISTRY

Module title:	Inorganic Chemistry I
Code:	SCHM 3611
NQF level:	6
Contact hours:	56 hours lectures, 14 hours tutorials, 42 hours practicals
Credits:	16
Module Assessment:	CA: 50% (minimum 2 tests 80 %, laboratory component 15 %; assignments 5%) Final Exam: 50% (1 x 3 hour exam paper)
Prerequisite:	SCHM 3411 (Chemistry 1A), SCHM 3512 (Chemistry 1B)

Module Description:
This is an introductory course to inorganic chemistry. It builds upon what is covered in the First Year chemistry courses. Hence, it begins with a revision of the structure of the atom and then progresses into its reactivity to form simple and complex molecules.
Review-The atom: Atomic parameters:- radii, ionization energy, electronegativity,and electron affinity; Chemical bonding:- Valence Bond Theory (VBT),shapes of molecules and hybridization; Molecular Orbital Theory (MOT):-diatomic and polyatomic molecules; Delocalized multiple bonding. S-block elements: The chemistry of alkali and alkaline earth elements (groups 1 and 2); reactivity with hydrogen, oxygen, halogens, water, and liquid ammonia; Classification of oxides, and their reaction with water. P-block elements(groups 13 to 18): Reactivity with oxygen and halogens;The hydrides of P block elements; Hydrolysis and ammonolysis of P-block halides. Brief introduction to the organometallic chemistry of s-block elements with emphasis on organometallic chemistry of lithium and magnesium. Brief introduction to d-block chemistry: Occurrence, recovery and common oxidation states and compounds.

Module requirements and Expectations:
Students are expected to use recommended textbooks and lecture notes as well as reading other reference textbooks and reading materials.

CC.17 MODULE DESCRIPTOR: ANALYTICAL CHEMISTRY MODULES:

Module title:	Analytical Chemistry I
Code:	SCHM3602
NQF Level:	6
Contact Hours:	2 lecture periods per week and 1practical session per week for, 14weeks.
Credits:	8
Module Assessment:	CA: 50 % (minimum 2 tests 80 %, laboratory component 20 %) Final Exam: 40 %; (1 x 2 hour exam paper)
Prerequisites:	SCHM3411 (Chemistry 1A), SCHM3512 (Chemistry 1B)SBLG3411

Module Description:
This module provides general introduction to sampling and evaluation of analytical data. It deals in depth with analytical tools like titrimetric analysis, gravimetric analysis and it gives basic information about spectroscopic methods of analysis.

Review of some fundamental concepts; sampling and sample preparation; expressions of concentration and content; evaluation of analytical data; measures of accuracy and precision;random and systematic errors; aqueous equilibria; mass and charge balance equations and their use in solving multiple ion and complex ion equilibria; principles of titrimetry; acid-base titrations; titration curves and indicators; polyprotic acid-base equilibria, applications of acid-base titrations; gravimetric methods of analysis; solubility and solubility product; common ion and diverse ion effects; precipitation titrations; indicators used in precipitation titrations.

CC.18 MODULE DESCRIPTOR: ORGANIC CHEMISTRY

Module title:	Organic Chemistry I
Code:	SCHM3612
NQF Level:	6
Contact Hours:	56 hours lectures, 14 hours tutorial sessions, 42 hours practical sessions
Credits:	16
Module Assessment:	CA: 50% (minimum 2 tests 80 %, laboratory component 20 %) Final Exam: 50%; (1 x 3 hour exam paper)
Pre-requisites:	SCHM3411 (Chemistry IA), SCHM3512 (Chemistry IB)

Module Description:
This course emphasizes on stereochemistry and reaction of organic molecules. Alkanes and cycloalkanes: nomenclature, physical properties, bond rotation, conformations, ring strain, bicyclic and polycyclic alkanes, reactions and synthesis of alkanes. Alkenes and alkynes: Properties and synthesis, hydrogenation, index of hydrogen deficiency, preparation, addition reactions, Markovnikov's rule, hydroboration, Radical reactions: free radicals, halogenation of alkanes, chain reactions. Alcohols and ethers: synthesis, reactions, mesylates and tosylates, epoxides, crown ethers, phase transfer catalysis. Stereochemistry: stereoisomers, enantiomers, chirality, diastereomers, racemates, meso compounds, optical activity, resolution. Nucleophilic substitution and elimination: nucleophiles and electrophiles, SN2 and SN1 reactions; carbocations and carbanions, E1 and E2 reactions.

CC.19 MODULE DESCRIPTOR: ANIMAL FORM AND FUNCTION

Module title:	Animal Form and Function
Code:	SBLG: 3611
NQF Level:	6
Contact hours:	4L/week for 14 weeks (56h) + 1P/week for 14 weeks (42h)
Credits:	16
Module Assessment:	Continuous assessment: 40% (3 tests – 60% + at least 10 practical marks – 40%); Examination: 60% (1 x 3h examination paper)
Pre-requisites:	CHM3132 Chemistry for Life Sciences SBLG3411(Biology 1A &1B) BLG3512 Diversity of Life

Module description:
This module intends to provide the student with a thorough understanding of the structures and functions of different body organs and systems in various animal species. It will cover the following topics: Structure, types and general characteristics and functions of epithelial tissues, cell-to-cell contact , structure and function of soft and specialized connective tissues, structure and functions of skeletal, smooth and cardiac muscles, structure and functions of neurons, types of neurons, neuroglia and their functions. Mechanisms of homeostasis, positive feedback, information flow. Communication lines of vertebrate nervous systems, sodium-potassium pumps, chemical synapses and neurotransmitters. The invertebrate nervous system, the nerve net and function, the nerve cord. Functional divisions of vertebrate nervous systems, brain cavities and canals, blood – brain – barrier, the limbic system. Mechanoreceptors, thermo-receptors, pain receptors, chemo-receptors, osmo-receptors, photoreceptors. Senses of taste and smell, sense of balance. The structure and function of vertebrate eye and ear. The structure and functions of the endocrine glands. Prostaglandins-types and functions. Feedback control of hormonal secretions. Role of hormones in arthropod metamorphosis. Integumentary system, vertebrate skin and structure and its functions. Bone structure and functions, skeletal joints, skeletal muscular system. The vertebrate and invertebrate circulatory systems, links with lymphatic system, functions of blood, blood volume and composition, the heart and dorsal vessel-structure and functions, blood pressure, cardiovascular disorders, the defense system – barrier to infection, specific and non-specific responses, inflammation, control of immune response, cell-mediated and antibody mediated responses, immunoglobulins and lymphocytes. Gas exchange, factors influencing gas exchange, gas transport pigments, vertebrate lungs and structures, breathing mechanisms, respiratory cycle, oxygen and carbon dioxide transport, chemoreceptors (carotid bodies and aortic bodies), respiratory surfactant and its functions, gills of fish and amphibians, respiration in diving animals, invertebrate respiration. Organs and accessory organs of digestive system and their functions in vertebrate and invertebrates. The kidney structure and function, secretion of water and sodium, acid-base balance. Excretion in invertebrates and the role of the Malpighian tubules. Temperatures suitable for life, heat gains and losses, temperature regulation, response to cold and heat stress. Sexual and asexual reproduction, stages of development, cell differentiation, morphogenesis. Reproduction in vertebrate and invertebrates.

CC.20 MODULE DESCRIPTOR: COMMUNITY HEALTH SCIENCE MODULE FOR PREMED & POPULATION DEVELOPMENT

Module title:	Community Health Care
Subject code:	MNCH 3630
NQF level:	6
Contact hours:	2 periods per week x 28 weeks
Credits:	16
Module assessment:	Continuous Assessment: 50% Examination: 50% (1 paper × 2 hours paper)
Prerequisite:	None

Module Description:
This module aims to introduce knowledge and appropriate skills to student to improve the quality of health status of the individual, family and community in Namibia.

Module Requirements and Expectations:
Compulsory attendance – 80%; active class participation; make appointments with the lecturer for tutorials.

D DIPLOMA IN GENERAL NURSING AND MIDWIFERY SCIENCE CURRICULUM.(14DGNM)

D.1 Admission requirements

To be eligible for Diploma in General Nursing and Midwifery Science, an applicant shall satisfy the following minimum requirements:

- Prospective candidate should be an enrolled nurse registered with the Nursing Council of Namibia and furnish proof of his/her current registration
- A National Senior Secondary Certificate (NSSC) or equivalent, obtained in not more than three examination sittings with a minimum of 22 points in five subjects according to UNAM evaluation point scale.
- One of the five subjects should be English with at least a D Symbol(NSSC) or a D symbol in Ordinary level or an equivalent symbol.
- Candidate should also submit proof of relevant nursing experience prior to admission.
- Annually after registration, every student must furnish the Faculty with proof of current registration as a student with the Namibia Nursing Council.

D.2 Duration of the study

The minimum duration for full time students enrolled for the Diploma in General Nursing and Midwifery Science extends over a period of at least three (3) years. The maximum period of study is five (5) years.

D.3 Professional Development Placement

The award of the diploma is subject to satisfactory completion of the requirements of the University and the Nursing Council of Namibia. It is imperative that the Nursing code of practice be strictly adhered to in terms of theory and practice.

D.4 Delivery mode

This degree will be offered through a face-to-face mode in collaboration with the other faculties within the University and the main stakeholder, namely the Ministry of Health and Social Services (MOHSS).

Clinical teaching will be done in collaboration with assistance of the ward Clinical Instructors at the Ministry of Health and social Services (MOHSS) facilities. Some clinical procedures will be conducted in the simulation laboratories at the Faculty in order to strengthen clinical skills, and to correlate the theory with clinical practice.

D.5 Implementation

The Faculty will offer the Diploma in General Nursing and Midwifery Science at the Northern and Main campuses. The commencement of the diploma is based on readiness of the Faculty in terms of human resources, physical facilities and teaching material. The Faculty is positive regarding changes within the infrastructure, which are required for the provision of quality care to the Namibian society.

D.6 Teaching – learning model

The teaching and learning model will be based on a student – centered approach which is characterised by self study elements, fieldwork, lectures, projects, individual and group activities, discussions, and tutorials.

D.7 Assessment

Assessments will be according to the general regulations and faculty specific as follows:

(a)Continuous assessment e.g.(practical, tests, assignments, projects) 40%
(b)Final Examination 50%

D.8 Quality Assurance

This will be in accordance with the general regulations of the University of Namibia and includes collaboration and utilization of external assessors from within, and outside Namibia.

D.9 Confirming of the Diploma

A student shall be awarded the Diploma in General Nursing and Midwifery Science if s/he has passed all prescribed modules.

D.10. Academic Advancement Rules

Re- Registration

A student will not be re-admitted into the Faculty if s/he has not passed at least:

- **4** (Four) Modules at the end of the First Year of registration; at least 2 Modules should be non-core.
- **14 (Fourteen)** Modules at the end of the Second Year of registration including all UNAM core modules.
- **24 (Twenty four)**Modules at the end of the Third Year of registration

Academic Advancement rules (minimum number modules to be passed for promotion to the next year)

A student advances to the following academic level of study when at least 2/3 of the courses of the curriculum for a specific year have been passed. If a student passed only one third (1/3) of the full curriculum of a specific year. S/he may not register for any course on the next level.

7(seven) modules out of the 10 modules prescribed first **year**
7 (seven)modules out of the 11 modules prescribed for second **year**
6 (six)modules out of the 8 modules prescribed for **third year**
All modules prescribed for the curriculum

The above-mentioned implies that a student who does not complete the Diploma in General Nursing and Midwifery Science within the prescribed duration of study has two years left to complete the remaining modules.

From year 1 to year 2:
At least 6 modules (equivalent to 96 credits) out of the 10 modules (162 credits) prescribed for year 1.

From year 2 to year 3:
All first year modules plus at least 6 modules (equivalent to 96 credits) from 9.5 modules prescribed for year 2

- Prerequisite for courses have to be passed before a student can proceed to register for courses that requires a prerequisite.
- Co-requisites: In order to continue with a module who has another module as a co-requisite a student has to pass the co-requisite module or achieved a continuous assessment (CA) mark of at least 40%.

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D.11. Practical (component B)

The practical learning experience and clinical teaching prescribed in the (b) section of a course will take place in a variety of health care institutions. The practice is coordinated with the guidance of lectures and preceptors. The clinical learning experience must extend over three academic years.

D.12. Curriculum Framework (Total credits 440)

YEAR 1

Semester 1				**Semester 2**			
Module	**Code**	**Credits**	**NQF level**	**Module**	**Code**	**Credits**	**NQF level**
Contemporary social issues	UCSI 3429	8	4				
English for general communications	ULEG 2410	1	4	English communication and study skills	ULEG 2410	16	4
Computer literacy	UCLC 3409	16	4				
General nursing 1	MNGN 2450	16	4	General nursing 1	MNGN 2450	16	4
Community health 1	MNCH 2450	16	4	Community health 1	MNCH 2450	16	4
Fundamentals of human anatomy and physiology	MNAP 2451	16	4	Applied human anatomy and physiology	MNAP 2452	16	4
				Interpersonal abilities in Nursing	MNIP 2422	8	4
		88				**72**	
Total credits year 1: 160							

Year 2

Semester 1				**Semester 2**			
Module	**Code**	**Credits**	**NQF level**	**Module**	**Code**	**Credits**	**NQF level**
General nursing 2	MNGN 2570	16	5	General nursing 2	MNGN 2570	16	5
Community health 2	MNCH 2570	16	5	Community health 2	MNCH 2570	16	5
Microbiology	MNMB 2571	16	5	Pharmacology	MNPC 2572	16	5
Midwifery science 1	MNMS 2550	16	5	Midwifery science 1	MNMS 2550	16	5
Principles in Wound care	MNWC 2541	8	5	Problem solving and critical thinking skills in Health care	MHPC 2542	8	5
		72				**72**	
Total credits year 2: 144							

Year 3

Semester 1				**Semester 2**			
Module	**Code**	**Credits**	**NQF level**	**Module**	**Code**	**Credits**	**NQF level**
General nursing 3	MNGN 2610	16	6	General nursing 3	MNGN 2710	16	6
Midwifery science 2	MNMS 2650	16	6	Midwifery science 2	MNMS 2650	16	6
Mental health	MNMH 2610	16	6	Mental health	MNMH2610	16	6
Ethos & professional practice	MNEP 2550	16	5	Ethos & professional practice	MNEP 2550	16	5
Emergency Nursing	MNEN 2621	8	6				
		72				**64**	
Total credits year 3: 136 **Total credits: 440 for the 3years**							

DD.13 Modules Descriptor

Year 1

Module tItle:	**CONTEMPORARY SOCIAL ISSUES**
Code	UCSI 3429
NQF level	4
Contact hours	2 lecture periods per week for 14 weeks
Credits	8
Assessment	Continuous 40 % ; Examination 50% x 2-hour paper
Pre-requisites	None

Module description

Contemporary Social Issues is a compulsory Unam core module for all the first year students. It is divided into three (3) unit namely:

- HIV/AIDS
- Orientation to Social Ethics
- Gender Issues

Each of these units is allocated 8-10 lectures over a teaching period of 4-5 weeks.

The class is divided into five groups so that students can choose one which suits them most.
Students can, thus, register for the course with any of the following Faculties:

First Semester:

- Medical and Health Sciences
- Law
- Humanities and Social Sciences
- Education (where applicable)

Second Semester:

- Economics and Management Sciences
- Science
- Agriculture and Natural Resources
- Education (where applicable)

Exit Learning Outcomes:

It is anticipated that at completion of this course, the student should be able to display an understanding of and appreciate the relationship between Social Ethics, Gender Issues and HIV/Aids.
Upon completion of this module, in each unit, the student should be able to:

A. HIV/AIDS

1. Describe the physical-medical aspects of HIV/AIDS and STD's.
2. Understand the social factors that contribute to the spread of HIV/AIDS.
3. Explain his /her behavior change towards HIV/AIDS.
4. Identify intervention strategies on campus.

B. SOCIAL ETHICS

1. Critically discuss the objectives of the course.
2. Identify the meaning of ethics within a multi-cultural, multi-faith and a secular setting.
3. Assess the challenges facing the society.
4. Help the learners to discover the significance of spirituality and morality.
5. Answer the question: What does it mean to be a good person or society?

C. GENDER ISSUES

1. Identify with, and use gender concepts with ease.
2. Use gender-sensitive language and live a life that reflects gender exposure.
3. Reflect on gender relations between women and men in society, and the impact on society.
4. Reduce gender stereotypes in their home and community at large.
5. Examine the impact of gender unequal relations on the spread of HIV/AIDS, gender based violence, myths, stereotypes and believes about males and females, the education system and many other issues that affect society and community at large.

DD.14 MODULE DESCRIPTOR : ENGLISH FOR GENERAL COMMUNICATION

Module title:	English for General Communication
Code:	ULEG 2410
NQF level:	Level 4
National professional standard competencies :	N/A
Contact hours:	4 hours per week for 28 weeks
Credits:	32
Module Assessment :	Continuous Assessment (60%): 4 reading tests 4 writing tests 2 oral presentations 1 literature worksheet Examination (40%):1x3 hour paper

Pre-requisites: None

Module description:

This module attempts to assist students to improve their general English proficiency. The main goal of this module is, therefore, to develop the reading, writing, listening, speaking and study skills of students in order for them to perform tasks in an academic environment. This module focuses on the skills students need to perform cognitive academic tasks in an academic environment and beyond.

DD.15 MODULE DESCRIPTOR : COMPUTER LITERACY

Module title: Computer Literacy
Code UCLC 3409
NQF level 4
Contact hours 2L = 1PS/week
Credits 8
Assessment Continuous 60%; examination 40% (1x 2hour paper)
Pre-requisites None
Module Description:
This module will prepare the student to master basic computer literacy skills, use power presentation as a mode of presentation and access the internet.
Module requirements
It is expected that the student attend required numbered of lectures participate in group work and discussions, to comply with the theoretical as well as the practical requirements.

DD.16 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 1

Module title: General Nursing Science 1
Code MNGN 2450
NQF level 4
Contact hours 4/ week x 28 weeks
Credits 32
Assessment Continuous 40%; examination 50% (2 x3 hour paper)
Pre-requisites None
Module description
The module involves integration of knowledge of anatomical structures, physiology of body systems under study and the pathological processes involved in the evolution of each disease. The module also covers medical and surgical interventions for treatment (to an extent pharmacological actions), and specific nursing care for specific diseases (i.e. physical, psychological and social), at primary, secondary (curative care) and tertiary prevention or rehabilitation levels of the comprehensive healthcare approach. The module aimed at assisting the student to develop the cognitive, psychomotor and affective skills regarding health care. Thus, at completion of this module, the student should be able to provide comprehensive nursing care pertaining to medicine and surgery for the adults and pediatrics.

DD.17 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING SCIENCE1

Module title: Community Health Nursing Science1
Code MNCH 2450
NQF level 4
Contact hours 4/ week
Credits 32
Assessment Continuous 40%; examination 50% (1 x 3 hour paper)
Pre-requisites None
Module description
This Module is aimed at equipping the student nurse with adequate knowledge, appropriate skills and positive attitudes to provide comprehensive community health care. The student will be expected to assume responsibility for all actions taken. The Module also aims at equipping student nurses with sufficient knowledge of HIV/AIDS and its management in Namibia, so as to enable them to provide quality care to patients with HIV/AIDS.

DD.18 MODULE DESCRIPTOR: FUNDAMENTALS OF HUMAN ANATOMY AND PHYSIOLOGY

Module title: Fundamentals of Human Anatomy and Physiology
Code MNAP 2451
NQF level 4
Contact hours 4/ week
Credits 16
Assessment Continuous 40%; examination 40% (1 x 3 hour paper)
Pre-requisites None
Module description
This module aims at equipping the health care student with knowledge and skills with regard to normal human structure and functioning (physiology) in order to detect any deviation from the normal functioning and thus relate this module to wellness and disease topics. The content in this module focuses on the histological, skeletal muscular, cardiovascular, lymphatic, respiratory and digestive systems

DD.19 MODULE DESCRIPTOR: APPLIED HUMAN ANATOMY AND PHYSIOLOGY

Module title: Applied human Anatomy and Physiology
Code MNAP 2452
NQF level 4
Contact hours 4/ week
Credits 16
Assessment Continuous 40%; examination 50% (1 x 3 hour paper)
Pre-requisites MNAP2451 (Co requisite)
Module description
This module aims at equipping the health care student with knowledge and skills with regard to normal human structure and functioning (physiology) in order to detect any deviation from the normal functioning and thus relate this module to wellness and disease topics. The content of this module focuses on the renal (including fluids and electrolytes), reproductive, endocrine and central nervous system'

DD. 20 MODULE DESCRIPTOR: INTERPERSONAL ABILITIES IN HEALTH CARE

Module title: Interpersonal Abilities in Health Care
Code MHIP 2522
NQF level 5
Contact hours 2 / week
Credits 8
Assessment Continuous 40%; examination 50% (1 x 2hour paper)
Pre-requisites None
Module description
This module aims at introducing the student to the art and science of professional practice in Health Science by means of a core curriculum. It will enable the student to develop competency in a professional approach and to develop insight and skills in the complexities of the caring relationship. This module will enable the student to understand the holistic approach to the caring relationship and the importance of developing the interpersonal skills to sustain a caring relationship and develop skills in self care
Argue the necessity of self awareness and development of self care skills as components of self development.

YEAR 2

DD.21 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 11

Module title: General Nursing Science 11
Code MNGN 2570
NQF level 5
Contact hours 4/ week
Credits 32
Assessment Continuous 40%; examination 50% (2 x 3 hour paper)
Pre-requisites MNGN 2450
Module description
This module introduces the student to more advanced concepts that promote the application of the nursing process in the area of the adult in the specialized health care disciplines, i.e. central and peripheral nervous system, musculoskeletal system, genito-urinary systems, ophthalmology, ear and nose, and oncology conditions that are prevalent in Namibia. The student will have opportunities to work collaboratively with members of a health care team in the specialized environments of the training hospitals of Namibia. Skills laboratory will provide the student with simulation experiences to master selected skills before s/he is allocated to the health care environment. Nursing care of the HIV/AIDS infected client features strongly throughout this module.

DD.22 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING SCIENCE 11

Module title Community Health Nursing Science
Code MNCH 2570
NQF level 5
Contact hours 4/ week
Credits 32
Assessment Continuous 40%; examination 50% (1 x 3 hour paper)
Pre-requisites None
Module Description:
This Module aims at equipping the student nurse with adequate knowledge, appropriate skills and positive attitudes to provide comprehensive community health care. As well as equipping student nurses with sufficient knowledge of HIV/AIDS and its management in Namibia, so as to enable them to provide quality care to patients with HIV/AIDS

DD.23 MODULE DESCRIPTOR : MICROBIOLOGY

Module title: Microbiology
Code MNMB 2571
NQF level 5
Contact hours 4/ week
Credits 16
Assessment Continuous 40%; examination 50% (1 x3 hour paper)
Pre-requisites MNAP2452
Module description
The module aims at providing a nurse practitioner to apply some of the microbiological principles in order to prevent diseases and to maintain a healthy environment for the patient. It is planned as a foundation to
help students to upgrade themselves and also to master new and additional information.
Emphasis will be placed on practical application; where possible laboratory experiences will be provided.

DD.24 MODULE DESCRIPTOR: PHARMACOLOGY

Module title: Pharmacology
Code MNPC 2572
NQF level 5
Contact hours 4/ week
Credits 16
Assessment Continuous 40%; examination 50% (1 x 3 hour paper)
Pre-requisites MNMB2571 (Co requisite)
Module description
The module aims at fostering sound principles in pharmacology. It is planned as a foundation to help students to upgrade themselves and also to master new and additional information.
Emphasis will be placed on practical application; where possible laboratory experiences will be provided.

DD.25 MODULE DESCRIPTOR: MIDWIFERY SCIENCE 1

Module title : Midwifery Science 1
Code MNMS 2550
NQF level 5
Contact hours 4/ week
Credits 32
Assessment Continuous 40%; examination 40% (2 x3 hour paper)
Pre-requisites None
Module description
This module will enable the student to provide comprehensive maternal and newborn care; apply anatomy and physiology of the female reproductive systems and the management of women with normal pregnancies when indicated.

DD.26 MODULE DESCRIPTOR: BASIC PRINCIPLES OF WOUND CARE

Module title: Basic Principles of Wound Care
Code MNWC 2541
NQF level 5
Contact hours 2/ week x 14 weeks
Credits 8
Assessment Continuous 40%; examination 50% (1 x 2 hour paper & Case study)
Pre-requisites None
Module description:
The module expands on the knowledge and skills acquired during the pre- final years. This mentioned knowledge and skills relate to general nursing science, and skills in assessment. The students are introduced to different wounds and the necessary knowledge and skills required to provide the correct interventions. The module will be presented with the framework of the nursing process.

DD.27 MODULE DESCRIPTOR: PROBLEM SOLVING AND CRITICAL THINKING SKILLS IN HEALTH CARE

Module title: Problem Solving and Critical Thinking Skills in Health Care
Code MHPC 2542
NQF level 5
Contact hours 2 / week
Credits 8
Assessment Continuous 40%; examination 50% (1 x 2hour paper)
Pre-requisites None
Module description:
This module introduce the health care student to problem - solving and critical thinking in health care practice.
Module Class attendance of 80% is expected as well as active participation in all activities.

Year 3

DD.28 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 111

Module title: General Nursing Science 111
Code MNGN 2610
NQF level 6
Contact hours 4/ week
Credits 32
Assessment Continuous 40%; examination 50% (2 x 3 hour paper)
Pre-requisites MNGN 2570
Module description
This module will enable the students to identify general principles, priorities, and management of
common medical-surgery emergencies encountered by adult clients. This module is designed at equipping the student with knowledge and managerial skills to ensure quality patient/client, family and community care for optimal health care delivery. It is also designed to equip the student with knowledge and skills to plan and manage health resources effectively and efficiently and also on how to cope with the consequences of disasters and disease outbreak and to cope with the consequences of HIV/AIDS.

DD.29 MODULE DESCRIPTOR:MIDWIFERY SCIENCE 11

Module title: Midwifery Science 11
Code MNMS 2650
NQF level 6
Contact hours 4/ week
Credits 32
Assessment Continuous 40%; examination 50% (2 x 3 hour paper)
Pre-requisites MNMS 2550
Module description
This module aims to provide comprehensive maternal and newborn care by equipping the students with skills to identify and manage and/or refer complications and emergencies during abnormal pregnancy, labour, puerperium and the newborn at risks, including PMTCT, within the cultural, ethical and the legal scope of practice at all levels of care.

DD.30 MODULE DESCRIPTOR: MENTAL HEALTH NURSING SCIENCE

Module title: Mental Health
Code MNMH 2610
NQF level 6
Contact hours 4/ week
Credits 32
Assessment Continuous 40%; examination 50% (1 x 3 hour paper)
Pre-requisites None
Module description:

This module is aimed at introducing the student to mental health and equipping her/him with knowledge and skills to enable her/him understand human behaviour so as to promote mental health, prevent mental illness within the community setting following the PHC approach, and provide comprehensive nursing care to persons suffering from mental illness and to support the family. The module also aims at equipping the student with communication and interpersonal relationship skills in the context of prevention and care of those who are HIV – positive or have HIV/AIDS.

DD.31 MODULE DESCRIPTOR: ETHOS AND PROFESSIONAL PRACTICE

Module title:	Ethos and Professional Practice
Code	MNEP 2550
NQF level	5
Contact hours	4/week x 28 weeks
Credits	32
Assessment	Continuous 40%; examination 50% (1 x 3 hour paper)
Pre-requisites	None

Module description:

This module prepares the student nurse to practice nursing as a professional nurse practitioner and contribute to the professional development of registered nurses as practitioners who practice nursing within the philosophical/ethical and legal framework of the nursing profession.

DD.32 MODULE DESCRIPTOR: EMERGENCY NURSING

Module title:	Emergency Nursing
Code	MNEN 2621
NQF level	6
Contact hours	2/ week x 14 weeks
Credits	8
Assessment	Continuous 40%; examination 50% (1 x 2 hour problem solving & OSCE [Objective structured Clinical examination]
Pre-requisites	None

Module description:

The module aims to consolidate critical clinical skills required of a health professional.
to act logically and systematically when confronted with patients in life threatening emergency or trauma situations. The presentation of this module requires that certain basic knowledge and skills related to health care delivery have been already mastered. The framework of this module is based on the internationally recommended *Advanced Trauma Life Support* (ALTS) guidelines.

E. CERTIFICATE IN CLINICAL INSTRUCTION

E.1 ADMISSION

To register for the certificate course in Advanced Skills a candidate must comply with the following conditions:
- Registration as a nurse and midwife
- Furnish proof of his/her current registration with the Nursing Board of Namibia.

E.2 DURATION OF STUDY

The course extends over a period of14weeks.

E.3 CURRICULUM COMPILATION AND AIM

The Certificate in clinical Instruction have been structured to satisfy the UNAM as well as the NQA requirements. Candidates will be exempted from UNAM core curriculum due to the fact that candidates had completed the core during the basic training as student nurse or student radiographer.

The curriculum for the training of clinical instructors is designed to prepare registered nurses/midwives and registered radiographers to train, guide and accompany pupil nurses, student nurses and radiographers in the clinical setting of training hospital in all regions of the country. The curriculum is furthermore designed to equip the registered nurse/radiographers with a broad base of knowledge and skills regarding clinical education in clinical practice. The programme will also enable and empower the candidate to act independently and in collaboration with the lectures of the FOMHS in the training of the health students.

E.4 EXAMINATION REGULATIONS

See A5

E.5 REGISTRATION AND ADVANCEMENT RULE

Need to pass the course in full

Candidates may re - register

No academic advancement rules apply to this certificate course.

E.6 PRACTICALS

The practical learning experience and clinical teaching prescribed will take place in a variety of health care institutions. The practice is coordinated with the guidance of lectures and preceptors. The clinical learning experience must extend over the14weeks

E.7 CURRICULUM FRAMEWORK

Semester 1 : Group 1			
Module	**Code**	**Credits**	**NQF level**
Elements in Clinical Instruction	MHCI 4719	16	7
Facilitation of Clinical Instruction	MHCI 4739	16	7
Clinical attachment	MHCA 4759	16	7
Total credits : 48			

Semester 2: Group 2			
Module	**Code**	**Credits**	**NQF level**
Elements in Clinical Instruction	MHCI 4719	16	7
Facilitation of Clinical Instruction	MHCI 4739	16	7
Clinical attachment	MHCA 4759	16	7
Total credits : 48			

EE. MODULE DESCRIPTIONS

EE.1 Module Descriptor: ELEMENTS IN CLINICAL INSTRUCTION

Module title: Elements in clinical instruction
Code: MHCI4719
NQF level: 7
Contact hours: 4 hours per week x 14 weeks
Credits: 16
Module assessment: Continuous : 3 tests or assignment ; Examination 1 x 2hr paper
Pre-requisites: None
Module description
This module aims at producing a competent registered nurse/registered radiographer capable of giving expert patient care which is based on sound knowledge and practiced skill. In order to achieve this aim, clinical instruction must be based on theory and applied in practice. It must include teaching such skills as leadership and administration, teaching, organizing and controlling staff.
Clinical instruction can be defined as acting and interacting with students, clients and other health professional in settings where people are in need of health care. This module will furthermore strive to introduce the student to the philosophical base and principles of nursing/radiography instruction. Learners will be enriched as they internalize the attitudes, values and ideals that flow from their educational preparation.
Module requirements and expectations:
Candidates are required to maintain a class attendance of 80% and practical attendance of 100%

EE.2 Module descriptor: FACILITATION OF CLINICAL INSTRUCTION

Module title: Facilitation of clinical instruction
Code: MHCI 4739
NQF level: 7
Contact hours: 4 hours per week x 14 weeks
Credits: 16
Module assessment: Continuous : 3 tests or assignment ;
Examination 1 x 2hr paper
Pre-requisites: Co-requisite MHCI4719

Module description
This module focuses on the facilitation of clinical instruction by including the strategies and assessment of clinical instruction to nurses and radiographers. In order to achieve this aim, clinical instruction must be based on theory and applied in practice. It includes the scientific nursing process as framework for problem solving and decision making.
Module requirements and expectations:
Candidates are required to maintain a class attendance of 80% and practical attendance of 100%

EE.3 Module descriptor: CLINICAL ATTACHMENT

Module title: Clinical attachment
Code: MHCI 4739
NQF level: 7
Contact hours: 14 weeks to fulfil the requirements as set out below in the module descriptor
Credits: 16
Module assessment: Continuous 40% (3 tests or assignment); Practical Examination 50% (1 x 2hr teaching sessions)
Pre-requisites: MHCI4719 and MHCI 4739
Module description
This module aims at producing a competent registered nurse/registered radiographer capable of giving expert patient care based on sound knowledge and practiced skill of certain identified modes of clinical instruction. The module aims at acting and interacting with students, clients and other health team members. Clinical

instruction must be based on theory and applied in practice and include teaching such skills as leadership and administration, teaching, organizing and controlling staff.

Module requirements and expectations:

Candidates are required to maintain a class attendance of 80% and practical attendance of 100%. A candidate is further required to purchase all printing material and obtain the prescribed book for this certificate.

ADVICE, INFORMATION AND GENERAL REGULATIONS

ATTENDANCE OF LECTURES

Students following courses of study in Faculty of Medical and Health Science must have at least an 80% lecture and practical attendance. in order to obtain registration with the Professional Boards concerned students must comply with theory and practice requirements as stated by the Boards.

The degree Bachelor of Nursing Science (Advanced Practice) is offered through Distance Education.

GENERAL INFORMATION

Students must register at the University as per the requirements of the University.

- According to regulations, a radiation worker may not work if she is pregnant.
- The student must work under direct or indirect supervision of qualified personnel when doing practical work.
- Lectures will be given during the normal working day. Practical work will cover a 24-hour working period.
- Hospital orientation is required on initiation of the course of study.
- Radiography students shall be required to conform to prescribed registrations with the Radiography Board of Namibia and all applicable registrations/regulations as per relevant ordinances.
- General information appears in the General Information and Regulations Prospectus