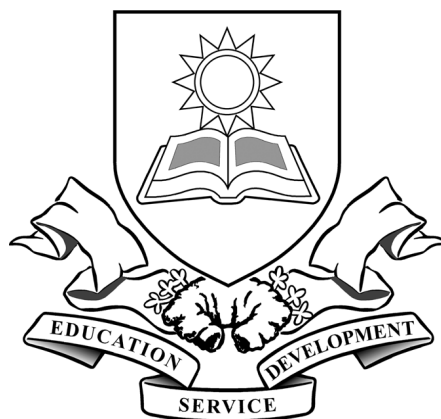


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# PROSPECTUS 2010

## SCHOOL OF NURSING AND PUBLIC HEALTH



UNIVERSITY OF NAMIBIA

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## NOTE

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This Prospectus is valid for 2010 only. Regulations and curricula for 2010 may be amended. General regulations and information appear in the **General Information and Regulations Prospectus**.

Although the information contained in this 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 2009.

The fact that particulars of a specific module or field of study have been included in this Prospectus does not necessarily mean that such module or field of study will be offered in 2010 or any consecutive year.

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

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## **FACULTY PREAMBLE**

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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**

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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.

## **ADVICE, INFORMATION AND GENERAL REGULATIONS**

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### **ATTENDANCE OF LECTURES**

Students following modules of study in Faculty of Medical and Health Science must have at least an 80% lecture and 100% practical attendance. In order to obtain registration with the Professional Council concerned students must comply with theory and practice requirements as stated by the Councils.

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 module of study.
- Radiography students shall be required to conform to prescribed registrations with the Allied Health Professional Council and all applicable registrations/regulations as per relevant ordinances.
- General information appears in the General Information and Regulations Prospectus
- 

### **SPECIAL FACULTY REQUIREMENT**

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#### **General**

1. Nursing and Radiography modules consist of compulsory clinical practice which counts for 50% of the modules
2. Clinical placement in training hospitals will commence from the first year of study.
3. The award of the degree is subject to the satisfactory completion of the prescribed practical hours and the satisfactory completion of practical registers
4. All clinical documents are regarded as legal documents and should bear the signature of the student and the registered nurse and the radiographer who teaches the student
5. The practical hours for the year should be completed before registering for the next academic year.
6. Logbook/workbook and or registers should be completed as per instruction.
7. All signatures should be authentic and legible. Fraudulent signatures can lead to immediate cancellation of the students training programme
8. All students need to adhere to the specific rules and regulations of the Ministry of Health and Social Services during their allocation in clinical areas.
9. Students should adhere to the dress code as agreed upon with the Faculty / MOHSS
10. A registration fee of N\$200 is payable to the applicable health professions council. Students will be informed accordingly after registration with the Faculty.
11. The use of cell phones during practicals is not allowed. This is considered highly unethical and interfering in the caring of a patient.

#### **First Year Nursing Students**

The first year nursing students should obtain the following equipment after registration:

- Watch with a second hand
- Thermometer
- Stethoscope
- Scissor

All the above except the watch is available at the faculty

#### **Dress Code**

Blue trouser/skirt (no jeans)

White trousers for men allowed

White jacket

Flat navy /black shoes (no high heels/sandals or Chinese slippers)

Epauettes available within the Faculty

Please note: students should buy their own uniform & shoes

## 2010 ACADEMIC CALENDAR

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### FIRST SEMESTER

11 January	University opens
21 January	Lecturers resume office duties
18 Jan – 19 February	Registration – Dist Teaching (CES) (Last day for Late Reg: 24 Febr)
28 - 29 January	Registration – Oshakati Campus – Full time senior students
01 - 05 February	Registration – Oshakati, Ogongo & Ongwediva Campuses – All first year students
02 - 18 February	Registration – Main Campus – Full & Part time (Last day for Late Reg: 24 Febr)
17 -18 February	Registration – Ogongo & Ongwediva Campuses – Senior students
19 February	Registration – All Post Graduate students (Last day for Late Reg: 24 Febr)
<b>22 February</b>	<b>Lectures commence for FIRST SEMESTER</b>
06 April	EASTER BREAK starts
12 April	Lectures resume after Easter Break
<b>11 June</b>	<b>Lectures end for FIRST SEMESTER</b>
15 June	First Opportunity Examinations commence (Semester I modules)
02 July	First Opportunity Examinations end (Semester I modules)
<b>02 July</b>	<b>End of 1<sup>st</sup> Semester</b>

### SECOND SEMESTER

<b>12 July</b>	<b>Mid-Year Recess starts</b>
<b>16 July</b>	<b>Mid-Year Recess ends</b>
<b>26 July</b>	<b>Lectures commence for SECOND SEMESTER</b>
02 August	Second Opportunity Examinations commence (Postgraduate by Coursework – Final year students)
06 August	Second Opportunity Examinations end (Postgraduate by Coursework – Final year students)
13 September	SPRING BREAK starts
20 September	Lectures resume after Spring Break
<b>05 November</b>	<b>Lectures end for SECOND SEMESTER</b>
09 November	First Opportunity Examinations commence (Sem II & Double modules)
26 November	First Opportunity Examinations end (Sem II & Double modules)
<b>26 November</b>	<b>End of 2<sup>nd</sup> Semester</b>
15 December	Academic Year ends & University closes (until 10 January 2011)
10 January 2011	University opens (2011 academic year)
11 January 2011	Second Opportunity Exams commence (Sem I, II & Double modules)
20 January 2011	Lecturers resume office duties
27 January 2011	Last day for appeals (First Opportunity Examinations) (Semester II & Double Modules)
28 January 2011	Second Opportunity Examinations end (Sem I, II & Double modules)

## DEADLINES FOR THE 2010 ACADEMIC YEAR

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(i) **GENERAL**

Last day for Late Registration ( <i>Late fee payable</i> ) .....	24 February
Last day for application of exemption(s).....	19 February
Last day for application of retention of continuous assessment marks .....	19 February
Last day for approval of exemption(s).....	24 February
Last day for approval of retention of continuous assessment mark .....	24 February
Last day for approval of module(s) & programme changes .....	24 February
Last day to change Examination Centres at Regional Centres - (Semester I modules).....	30 April
Last day to submit outstanding documentation.....	30 July
Last day for appeals (First Opportunity Examinations) (Semester I).....	30 July
Last day to change Examination Centres at Regional Centres (Semester II – (First and Second Opportunity Examinations).....	24 September
Last day to apply for enrolment cancellation.....	01 October
Last day for submission of Theses and Dissertations for examination .....	19 November

(ii) **CANCELLATIONS**

**First Semester Modules**

Last day to cancel Semester I modules .....

07 May
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**Second Semester Modules**

Last day to cancel Semester II modules .....

01 October
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**Double modules**

(a double module normally extends over one academic year)

Last day to cancel Double modules .....

01 October
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(iii) **FINANCE**

**First Semester Modules**

Last day to cancel with 100% credit.....

12 March
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Last day to cancel with 50% credit.....

23 April
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Last day for payment of Semester I modules.....

07 June
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**Second Semester Modules**

Last day to cancel with 100% credit.....

06 August
-----------

Last day to cancel with 50% credit.....

03 Sept
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**Double modules**

(a double module normally extends over one academic year)

Last day to cancel with 100% credit.....

12 March
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Last day to cancel with 50% credit.....

04 June
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## PERSONNEL

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### OFFICE-BEARERS AND ADMINISTRATIVE PERSONNEL

Dean: Dr. L. Haoses-Gorases  
Deputy Dean: Dr. M. van der Vyver  
Departmental Heads: Ms N Sumpi  
Ms H Udjombala (Northern Campus)

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 Officer: 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  
School of Nursing and Public Health  
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 modules 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).  
DR A R E KLOPPERS: RN, RM, RT, ROTT, BA (UNMM), B ED. (UNAM). MSC (UAM) MS DNSC (UNAM).  
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 TSHIFUGULA: 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), BCURPROGPRAX 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). DIP.PUB.HEALTH (MEDUNSA)  
MPUB.HEALTH (MEDUNSA) MSTNAUISEB RN, RM, R CHN, NE, BNSC (UNAM) MPUB.HEALTH (MEDUNSA/LIMPOPO)  
MS S N SHIVUTE: RN, RM, RT, RCN, DIPNED (UNIN), BACUR (UNISA) BCURHONS (UNISA). MNSC (UNAM).

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

**Junior Lecturers:**

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:**

DR L PRETORIUS: RN, RM, RPN, BCUR (UNISA), BCUR PROGPRAXHONS (UNAM) MNSC (UNAM) DNSC (UNAM).  
MS A WALTERS RN, RM, RNE, BNSC (UNAM), B-ED (UNAM) M-PHIL (NELSON MANDELA METROPOLOTAN UNIV. PE).  
MS E PATAKA RN, RM, (UNAM) CERT IN OCC HEALTH (UNIV OF STELL), CERT PHARMA (UNAM), CERT AUD (CAPE TECH.)  
L F SIWA RN, RM, RNE, RNC, DIPL IN CLIN CARE EDUC/ADM.(TYGERBERG), DIPLIN ADV NURS. ED. (UNAM) BCUR (UNISA)  
MS E KAWERAMA RN, RM, RT, RTCHN, BSCNURSED (UNIMA) MNS (UNAM)  
MS N LAYNE RN, ASS.DEGREE GEN.NUR (BARBADOS COMM.COLLEGE), ADV.DIPL.NUR.EDUC.(UNAM) BNSCADV.PRAC.NUR  
EDUC.(UNAM) MASTER OF EDUC.(RHODES UNIV.) MS H NIKONDO RN, RM, BSC ADV.PRAC.(UNAM) MASTER OF PUB.HEALTH  
(LIMPOPO UNIV.) MS L USHONA: RN, RM, RPSYC, DIPLHIV/AIDS (UNIV.OF STELENBOSCH) BNSC (UNAM) MPUBHEALTH (UNAM)

**UNIT: MIDWIFERY SCIENCE**

**Head:**

MS L TAUKEHEKE

**Senior Lecturer:**

DR HOFNIE-//HOËBES: RN, RM, RCN, RNA, RT, BCUR (UNISA), BCUR PROGPRAXHONS (UNAM), MSC. (LONDON). DNSC (UNAM)

**Lecturer:**

MS L TAUKEHEKE: 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, BSOCSCONS (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 F SMALL

**Senior Lecturers:**

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

**Associate Professor:**

PROF L F SMALL: RN, RM, RLN, RT, RCN, RPN, RCCN, BSOCSC, BSOCSCONS (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, DIPLORHNUR (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 B VD WESTHUIZEN: RN, RM, RNA, RT, BCUR (UWC) BCUR PROGPRAX (ACADEMY NAMIBIA) BCUR PROGPRAX HONS (UNAM).  
MCUR (RAU)  
MS J 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:**

DR K K SHIKONGO: RN, RM, RT, RCN, RNA, DIPLNED (UNIN), BCUR (UNISA), BCUR PROGPRAX HONS (UNAM), MNSC. (UNAM)  
DNSC (UNAM)

**UNIT: RADIOGRAPHY**

**Head**

MS. C. DAMASES: NDRD (UNAM). B.TECH (NATALTECH.). M.TECH (DUT).

**Assistant Lecturers:**

MS.L.KALONDO: NDRD (UNAM). B.TECH (PEN.TEHC.).  
MR R E DANIELS: NDRAD (UNAM). CERT. INDUST. AUDIOMETRY (TUT), CERT. SPIROMETRY (TUT), BTECH (NMMU)

## **DEPARTMENT OF MEDICINE: Honorary Professors:**

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### **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

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

## COURSE OF STUDY

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### DEGREES

The Faculty may award the following degrees:

- Bachelor of Nursing Science (Advanced Practice) via CES 70BNSC (phasing out)
- Bachelor of Nursing Clinical 14BNCL
- Bachelor of Radiography 14BRAD
- Master of Nursing Science 14MNSC
- Master 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
- Diploma in General Nursing and Midwifery Science 14DGNMS
- National Diploma in Radiography (Diagnostic) 14DRAD(phasing out)
- Post Graduate Diploma Operating Nursing Science 14PDOR
- Post Graduate Diploma Critical Care Nursing 14PDCC
- Post Graduate Diploma Health Prom, Clinical Diag. & Treatment 14PDHP
- Post Graduate Diploma Clinical Instruction 14PGDCI
- Post Graduate Diploma Emergency Nursing 14PGDEN

### CERTIFICATES

- Post Graduate Certificate Pharmacotherapy 14PCPT
- Post Graduate Certificate Advanced Nursing Skills 14PCNAS

## A. DIPLOMA IN COMPREHENSIVE NURSING AND MIDWIFERY SCIENCE (PHASING OUT)

### 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 School with proof of current registration as a student with the Nursing Council of Namibia.

### A.2 DURATION OF STUDY

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

This programme will phase out by 2011.No new intake

### 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. MODULES CODES AND RESTRICTION MODULES

#### MODULE/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	
MCH2101	Health Care Dynamics	

## YEAR 2

NGN2210 NCH2210 NMS2210 SOC2210 NAB2212	General Nursing Science Community Health Nursing Midwifery Science Sociology I Applied Biological Science	NAB2111/2112 /NGN2110 NCH2110 NAB2111/2112  NAB2211           co – requisite + NAB2111/2112   pre – requisite
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## YEAR 3

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

## YEAR 4

NGN2410 NCH2410 NEP2409	General Nursing Science Community Health Nursing Nursing Ethos and Professional Practice	NGN2310           General Nursing Science NCH2310           Community Health Nursing NEP2112           Nursing Ethos and professional Practice
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## YEAR 1 CURRICULUM FRAME WORK NQF LEVELS

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. 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 module, the continuous assessment mark for part (A) of the module 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 module is 40%, provided that a sub-minimum of 40% is obtained in each paper and 50% for part B. To pass a module, 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  
(Regulation 7.20.16(1)(b–c), (Regulation 7.20.17(1–4)).

### A.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES

#### Re-registration

The minimum duration of this module 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 modules within the School of Nursing and Public Health if (s/he has not passed a minimum of module 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 2<sup>nd</sup> 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 3<sup>rd</sup> 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 4<sup>th</sup> year.  
End of year 4: Pass in all remaining module 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 module 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

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### 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 Nursing Council of Namibia;
- 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 module 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.

### B.3 CURRICULUM FRAMEWORK

#### DIPLOMA IN MIDWIFERY TOTAL CREDITS 176

FIRST SEMESTER					SECOND SEMESTER				
Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	Credits	NQF Level
Principle of Normal Midwifery Science	NNMS4510	4	16	5	Principles Normal Midwifery Science	NNMS4510	4	16	5
Principle of Complications in Midwifery Science	NCMS4630	4	16	6	Principle of Complications in Midwifery Science	NCMS4630	4	16	6

Clinical attachment for midwifery science	NMCA4670	16	16	6	Clinical attachment For midwifery	NMCA4670	16	16	6
Ethos and professional practice	NEPP4680	3	12	6	Ethos and Professional Practice	NEPP4680	3	12	6
Applied Scientific foundation midwifery	NASF4580	3	12	5	Applied Scientific Foundation in midwifery	NASF4580	3	12	5
Community Health Nursing Science I	NNCH3680	4	16	6	Community Health Nursing Science I	NNCH3680	4	16	6

## B.4 EXAMINATION REGULATIONS

See A.5

\* Please note that students who are not admitted to the 1year Midwifery programme (may not write examination for Scientific Foundations of Midwives (NASF4580)

## B.5 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES

Re-registration: Since the Diploma in Midwifery Science is offered over one year full-time, two (2) modules 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 modules
- perform all prescribed practicals and pass the prescribed examinations,
- pass the prescribed oral and practical examinations.

## B.6 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: 40 hours

Midwifery Science: 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 Council

## 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 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 MODULE CODES AND RESTRICTIONS ON MODULES

#### MODULES PRE-REQUISITES/CO-REQUISITES

##### YEAR 1

UCA3119	English for Academic Purposes	UCE3119	Comm. And Study Skills in English
UCC310	Computer Literacy	NAB2111	Co- requisites
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
PIR2211	Image Recording II	PIR2112	Image Recording I
PRT2210	Radiation Technique II	PRT2110	Radiation Technique I

##### 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
- I 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
- I 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 3<sup>rd</sup> year students.**

A student advances to the following academic level of study if the following practical hours are completed:

- (a) Year 1 - 470 hours
- (b) Year 2 - 1015 hours
- (c) Year 3 - 1015 hours

## D. POST GRADUATE DIPLOMA OPERATING ROOM NURSING SCIENCE

### D.1 ADMISSION

To register for the post graduate Diploma Operating Room Nursing Science, 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.
- Degree or Diploma in Comprehensive Nursing and Midwifery Science.

### D.2 DURATION OF STUDY

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

### D.3 CURRICULUM FRAME WORK

#### OPERATING ROOM NURSING TOTAL CREDITS 160

SEMESTER 1					SEMESTER 2				
Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	Credits	NQF Level
Health Service Management	NHSM4890	3	12	8	Health Service Management	NHSM4890	3	12	8
Foundation of professional practice	NFPP4881	3	12	8	Dynamics of advanced Nursing practice	NDAP4882	3	12	8
Health Research Methods	NNHR4820	2	8	8	Health Research Methods	NNHR4820	2	8	8
Operating Room Nursing	NORN4810	4	16	8	Operating Room Nursing	NORN4810	4	16	8



Practical Operating Room Nursing	NPOR4830	Self directed accompanying	16	8	Practical Operating Room Nursing	NPOR4830	Self directed accompanying	16	8
Surgical Human Anatomy	NSHA 4811	4	16	8	Surgical Microbiology	NSMB4802	2	8	8
					Surgical Pharmacology	NNSP4822	2	8	8
Total Credits: 160			80					80	

#### D.4 MODULE CODES AND RESTRICTIONS ON MODULES

Module	Code	Semester	Restriction	Module Level
Health Service Management	NHSM4890	1-2		8
Foundation of professional practice	NFFP4881	1		
Dynamics of advanced nursing practice	NDAP4882	2		8
Health Research Methods	NNHR4820	1		8
Operating Room Nursing	NORN4830	1-2		
Practical Operating Room Nursing	NPOR4830	2		8
Surgical Human Anatomy	NSHA 4811	2		8
Surgical Microbiology	NSMB4802	1-2		8
Surgical Pharmacology	NNSP4822	2		8

#### D.5 EXAMINATION REGULATIONS

See A.5

#### D.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES

##### Re-registration

Since the Advanced Diploma is offered over one year full-time, two (2) modules 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 modules,
- 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 (NORN 4830) = 960 hours in an operating room of an approved institution.

## E. POST GRADUATE DIPLOMA CRITICAL CARE14PGDCC

### E.1 ADMISSION

To register for the Post Graduate Diploma 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.
- Degree or Diploma in Comprehensive Nursing and Midwifery Science.

## E.2 DURATION OF STUDY

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

## E.3 CURRICULUM FRAME WORK

### CRITICAL CARE TOTAL CREDITS 164

SEMESTER 1					SEMESTER 2				
Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	Credits	NQF Level
Health Service Management	NHSM4890	3	12	8	Health Service Management	NHSM4890	3	12	8
Foundation of professional practice	NFPP4881	3	12	8	Dynamics of advanced nursing practice	NDAP4882	3	12	8
Health Research Methods	NNHR4820	2	8	8	Health Research Methods	NNHR4820	2	8	8
Critical Care Nursing	NCCN4870	4	16	8	Critical Care Nursing	NCCP4870	Self directed accompanying	16	8
Critical Care Nursing Practical	NCCP4870	Self directed accompanying	16	8	Critical Care Nursing Practical	NCCP4870	Self directed accompanying	16	8
Specialized Human Anatomy and Physiology	NHAP4811	4	16	8	Emergency Medicine	NNEM4812	2	8	8
					Applied Physical Assessment And wound Care	NPAW 4882	3	12	8
<b>Total credits: 164</b>			<b>80</b>					<b>84</b>	

### E.4 MODULE CODES AND RESTRICTIONS ON MODULE

Module	Code	Semester	Restriction	Module Level
Health Service Management	NHSM4890	1-2		8
Dynamics of Advanced Nursing practice	NDAP4882	2		8
Foundation of professional practice	NFPP4881	2		8
Health Research Methods	NNHR4820			8
Critical Care Nursing	NCCN4850	1-2		8
Critical Care Nursing Practical	NCCN4870	1-2		
Specialized Human Anatomy and Physiology	NHAP4811	1		
Emergency Medicine	NNEM4812	2		8
Applied Physical Assessment and Wound Care	NPAW4882	2		8

## E.5 EXAMINATION REGULATIONS

See A.5

## E.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES

### Re-registration

Since the Post Graduate Diploma Critical Care is offered over one year full-time, two (2) modules should have been passed after the first year of registration.

### Academic Advancement Rules

To complete the diploma successfully the student must:

- pass all prescribed modules,
- 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 (NCCN4870) = 960 hours in an approved critical care unit.

## F. POST GRADUATE DIPLOMA HEALTH PROMOTION, CLINICAL DIAGNOSIS AND TREATMENT 14PDHPT

### F.1 ADMISSION

To register for the Post Graduate Diploma 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.
- Degree or Diploma in Comprehensive Nursing and Midwifery Science.

### F.2 DURATION OF STUDY

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

### F.3 CURRICULUM FRAME WORK

#### HEALTH PROMOTION, CLINICAL DIAGNOSIS AND TREATMENT TOTAL CREDIT 160

SEMESTER 1					SEMESTER 2				
Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	Credits	NQF Level
Health Service Management	NHSM4890	3	12	8	Health Service Management	NHSM4890	3	12	8
Foundation of Professional Practice	NFFP4881	3	12	8	Dynamics of Advanced Nursing Practice	NDAP4882	3	12	8
Health Research Methods	NNHR4820	2	8	8	Health Research Methods	NNHR4820	2	8	8
Advanced Health Promotion	NAHP4850	4	16	8	Advanced Health Promotion	NAHP4850	4	16	8
Practical: Clinical Diagnoses and Treatment	NCDT4870	Self directed accompanying	16	8	Practical: Clinical Diagnoses and Treatment	NCDT4870	Self directed accompanying	16	8
Specialized Human Anatomy and Physiology	NHAP4811	4	16	8	Advanced Pharmacology	NNAP4812	4	16	8
Total credits : 160			80					80	

#### F.4 MODULE CODES AND RESTRICTIONS ON MODULE

Module	Code	Semester	Restriction	Module Level
Health Service Management	NHSM4890	1-2		8
Foundation of Professional Practice	NFFP4881	2		8
Dynamics of Advanced Nursing Practice	NDAP4882			8
Health Research Methods	NNHR4820	1-2		8
Specialized Human Anatomy and Physiology	NHAP4811	1		8
Advanced Health Care Promotion	NAHP4850	1-2		8
Practical: Clinical Diagnoses and Treatment	NCDT4870	1-2		8
Advanced Pharmacology	NNAP4812	2		8

#### F.5 EXAMINATION REGULATIONS

See A.5

#### F.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES

##### Re-registration

Since the Post graduate Diploma Health, Promotion, Clinical Diagnoses and Treatment is offered over one year full-time, two (2) modules should have been passed after the first year of registration.

##### Academic Advancement Rules:

To complete the diploma successfully the student must:

- pass all prescribed modules,
- 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. POST GRADUATE DIPLOMA CLINICAL INSTRUCTION (14PDCI)

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#### G.1 ADMISSION

To register for the Post Graduate Diploma Clinical Instruction 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.
- Degree or Diploma in Comprehensive Nursing and Midwifery Science.

#### G.2 DURATION OF STUDY

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

#### G.3 CURRICULUM FRAME WORK

**CLINICAL INSTRUCTION TOTAL CREDIT 156**

SEMESTER 1					SEMESTER 2				
Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	Credits	NQF Level
Health Service Management	NHSM4890	3	12	8	Health Service Management	NHSM4890	3	12	8
Foundation of Professional Practice	NFPP4881	3	12	8	Dynamics of Advanced Nursing Practice	NDAP4882	3	12	8
Health Research Methods	NNHR4820	2	8	8	Health Research Methods	NNHR4820	2	8	8
Framework of Clinical Instruction	NCIF4840	2	8	8	Framework of Clinical Instruction	NCIF4840	2	8	8
Facilitation of Clinical Instruction	NCIF4840	2	8	8	Facilitation of Clinical Instruction	NCIF4840	2	8	8
Clinical Attachment	NNCA4850	Self directed accompanying	16	8	Clinical Attachment	NNCA4850	Self directed accompanying	16	8
Specialized Human Anatomy and Physiology	NHAP4811	4	16		Physical Assessment and Wound Care	NPAW4882	3	12	8
Total Credits: 156			80					76	

**G.4 MODULE CODES AND RESTRICTIONS ON MODULES**

Module	Code	Semester	Restriction	Module Level
Health Service Management	NHSM4890			8
Foundation of Professional Practice	NFPP4881	1		8
Dynamics of Advanced Nursing Practice	NDAP4882	2		8
Health Research Methods	NNHR4820	1-2		8
Framework of Clinical Instruction	NCIF4840	1-2		8
Facilitation of Clinical Instruction	NCIF4840	1		8
Clinical Instruction Practical	NNCA4850	1		8
Specialized Human Anatomy and Physiology	NHAP4811	1-2		8
Specialized Human Anatomy and Physiology	NHAP4811	1-2		8

**G.5 EXAMINATION REGULATIONS**

See A.5

**G.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES**

**Re-registration:**

Since the Post graduate Diploma Clinical Instruction (14PGDCI) is offered over one year full-time, two (2) modules should have been passed after the first year of registration.

**Academic Advancement Rules**

To complete the diploma successfully the student must:

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

**G.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

## H. POST GRADUATE DIPLOMA EMERGENCY NURSING (14PDEN)

### H.1 ADMISSION

To register for the Post Graduate Diploma Emergency Nursing 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.
- Degree or Diploma in Comprehensive Nursing and Midwifery Science.

### H.2 DURATION OF STUDY

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

### H.3 CURRICULUM FRAME WORK

#### EMERGENCY NURSING TOTAL CREDIT 164

SEMESTER 1					SEMESTER 2				
Module	Code	Hours	Credits	NQF	Module	Code	Hours	Credits	NQF
Health Service Management	NHSM4890	3	12	8	Health Service Management	NHSM4890	3	12	8
Foundation of Professional Practice	NFFP4881	3	12	8	Dynamics of Advanced Nursing Practice	NDAP4882	3	12	8
Health Research Methods	NNHR4820	2	8	8	Health Research Methods	NNHR4820	2	8	8
Emergency Nursing	NENP4870	4	8	8	Emergency Nursing	NENP4870	4	8	8
Emergency Practical Nursing	NENP4870	Self directed accompanying	16		Emergency Practical Nursing	NENP4870	Self directed accompanying		
Specialized Human Anatomy and Physiology	NENP4870	4	16	8	Emergency Medicine	NNEM4812	2	8	8
					Physical Assessment and Wound Care	NPAW4882	3	12	8
Total Credits: 164			80					84	

#### H.4 MODULE CODES AND RESTRICTIONS ON MODULE

Module	Code	Semester	Restriction	Module Level
Health Service Management	NHSM4890	1		
Foundation of Professional Practice	NFFP4881	2		
Dynamics of Advanced Nursing Practice	NDAP4882	1-2		
Health Research Methods	NNHR4820	1-2		
Emergency Nursing	NENP4870	1		
Emergency Practical Nursing	NENP4870	1		
Specialized Human Anatomy and Physiology		1-2		
Physical Assessment and Wound Care	NPAW4882	1-2		

## H.5 EXAMINATION REGULATIONS

See A.5

## H.6 RE-REGISTRATION AND ACADEMIC ADVANCEMENT RULES

### Re-registration

Since the Post graduate Diploma Clinical Instruction (14PGDCI) is offered over one year full-time, two (2) modules should have been passed after the first year of registration.

### Academic Advancement Rules:

To complete the diploma successfully the student must:

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

## H.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

## I. MASTER OF NURSING SCIENCE: M. N. Sc. 14 NMNS

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### I.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 Master Study at the University of Namibia;
- annually furnish proof of current registration as a nurse with the Nursing Council of Namibian.

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

### I.2 DURATION OF STUDY

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

### I.3 CURRICULUM FRAME WORK

#### MASTER OF NURSING SCIENCE TOTAL CREDIT 240

SEMESTER 1					SEMESTER 2				
Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	Credits	NQF Level
Master in Nursing Science	NMNS 5900	6 tutorials	120	9	Master in Nursing Science	NMNS 5900	6 tutorials	120	9
Total Credits: <b>240</b>									

The curriculum for the M. N. Sc. (14NMNS) consists of a thesis on an approved subject in the field of nursing or health aspects.  
NMNS 5900 - Master Thesis

### I.4. EXAMINATION REGULATIONS

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

## J. MASTER IN PUBLIC HEALTH 14 NMPH

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### J.1 ADMISSION

To register for the Master 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**

## J.2 DURATION OF STUDY

Minimum TWO years Maximum FOUR years to complete.

## J.3 CURRICULUM FRAMEWORK

- ONE academic year of course work completed by written examination .
- SECOND year research and writing of thesis.

### MASTER IN PUBLIC HEALTH TOTAL CREDIT 132

SEMESTER 1					SEMESTER 2				
Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	Credits	NQF Level
Research Methodology	NRMP5980	2	12	9	Research Methodology	NRMP5980	2	12	9
Hist, Ethics, Phil and Theoretical Framework of Public Health	NHPPH5980	2	12	9	Hist, Phil, Ethics and Theoretical Framework of Public Health	NHPPH5980	2	12	9
Demography and Epidemiology in Public Health	NDEP5980	2	12	9	Demography and Epidemiology in Public Health	NDEP5980	2	12	9
Disease Control in Public Health	NDCP5980	2	12	9	Disease Control in Public Health	NDCP5980	2	12	9
				9	Monitoring and Evaluation in Public Health	NMEP5982	2	12	9
Health Services Planning and Management in Public Health	NHPM5980	2	12	9	Health Services Planning and Management in Public Health	NHPM5980	2	12	9
TotalCredits:132			60					72	

### SECOND YEAR

SEMESTER 1			SEMESTER 2		
Research Project /Thesis	NRPT5900	120	Research Project / Thesis	NRPT5900	120
Total Credits: 240					

## J.4 EXAMINATION REGULATIONS

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

## K DOCTOR OF NURSING SCIENCE: D.N.Sc.14DNSC

### K.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 Nursing Council of Namibian



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

## K.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.

## K.3 CURRICULUM FRAME WORK

### DOCTOR OF NURSING TOTAL CREDIT 360

SEMESTER 1					SEMESTER 2				
Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	Credits	NQF Level
Thesis writing	NDND 6000	6 tutorials 180		10	Thesis writing	NDND 6000	6 tutorials	180	10
Total Credits: 360									

## K.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.

## L. POST GRADUATE CERTIFICATE ADVANCED NURSING SKILLS 14 PGCAS

### L.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 Council of Namibia.
- Degree or Diploma in Comprehensive Nursing and Midwifery Science.

### L.2 DURATION OF STUDY

The course extends over a period of ONE YEAR.

This is a 3 months certificate (40 credits) offered over 1 academic year on part time.

### L.3 CURRICULUM COMPILATION

The curriculum for the certificate course in Nursing Advanced skills (14PGCAS) has been compiled as follows:

- Interpretation /analysis of laboratory results
- ECG interpretation
- Wound Care
- Radiography imaging

#### Delivery mode

The course is presented by means of accompanied learning including 45 hours face – to – face teaching per year to allow candidates to attend this module during their off duty times. It is expected that this certificate be offered on Saturday mornings.

### L.4 CURRICULUM FRAME WORK

#### POST GRADUATE CERTIFICATE ADVANCED NURSING SKILLS TOTAL CREDITS 40

Semester 1					Semester 2				
Module	Code	Hrs / week	Credits	NQF Level	Module	Code	Hrs/ week	Credits	NQF Level
Advanced Nursing Skills	NANS4760	45 hrs per year	8	7	Advanced Nursing Skills	NANS4760	45 hrs per year	8	7
Clinical attachment in advanced nursing skills	NCAN4780	Self accompanied learning	12	7	Clinical attachment in advanced nursing skills	NCAN4780	Self accompanied learning	12	7
Total Credits: 40			20					20	

## L.5 EXAMINATION REGULATIONS

See A5

## L.6 REGISTRATION AND ADVANCEMENT RULE

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

## L.7 PRACTICALS

Minimum 50hours accompanied learning

## M. POST GRADUATE CERTIFICATE IN PHARMACOTHERAPY

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### M.1 ADMISSION

To register for the certificate course in Pharmacotherapy candidate must comply with the following conditions:

- B Degree or comprehensive Diploma in Nursing and Midwifery
- Registration as a nurse and midwife
- Furnish proof of his/her current registration with the Nursing Council of Namibia.
- Degree or Diploma in Comprehensive Nursing and Midwifery Science.

### M.2 DURATION OF STUDY

The course extends over a period of ONE YEAR.  
This is a 3 months certificate (40 credits) offered over 1 academic year on part time.

### M.3 CURRICULUM FRAME WORK

#### Delivery mode

The course is presented by means of accompanied learning including 45 hours face – to – face teaching per year to allow candidates to attend this module during their off duty times .

It is expected that this certificate be offered on Saturday mornings.

### M.4 CURRICULUM FRAME WORK

#### CERTIFICATE IN PHARMACOTHERAPY TOTAL CREDITS 40

Semester 1					Semester 2				
Module	Code	Hrs / week	Credits	NQF Level	Module	Code	Hrs/ week	Credits	NQF Level
Pharmacotherapy	NPCT 4760	45 hrs per year	8	7	Pharmacotherapy	NPCT 4760	45 hrs per year	8	7
Clinical attachment in pharmacotherapy	NCAP 4780	Self accompanied learning	12	7	Clinical attachment in pharmacotherapy	NCAP 4780	Self accompanied learning	12	7
Total Credits: 40			20					20	

### M.5 EXAMINATION REGULATIONS

See A5

### M.6 REGISTRATION AND ADVANCEMENT RULE

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

### M.7 PRACTICALS

Minimum 50 hours accompanied learning.

## SYLLABY / MODULE DESCRIPTIONS

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### AA. UNIVERSITY DIPLOMA IN COMPREHENSIVE NURSING AND MIDWIFERY SCIENCE

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#### AA.1 HEALTH CARE DYNAMICS

<b>MODULE TITLE:</b>	<b>HEALTH CARE DYNAMICS</b>
<b>Code:</b>	MCH 2101
<b>NQF Level:</b>	5
<b>Credits:</b>	8
<b>Contact Hours:</b>	2 lecture periods per week for 14 weeks
<b>Prerequisites:</b>	Nil but it is a faculty core module

**Module Assessment:**

To obtain admission to the examination, a student should obtain 50% 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 module. 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 module. It aims at introducing the student to the art and science of professional practice in Health Science. This is the faculty core module 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

<b>MODULE TITLE:</b>	<b>CONTEMPORARY SOCIAL ISSUES</b>
<b>Code:</b>	UCI 3109 (CSI3429)
<b>NQF Level:</b>	4
<b>Credits:</b>	8
<b>Contact Hours:</b>	2 lecture periods per week for 14 weeks
<b>Prerequisites:</b>	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) marks. 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 module 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 module with any of the following Faculties.

#### AA.3 COMPUTER LITERACY

<b>MODULE TITLE:</b>	<b>COMPUTER LITERACY</b>
<b>Code:</b>	UCC 3109 (UCLC3409)
<b>NQF Level:</b>	5
<b>Credits:</b>	8
<b>Contact Hours:</b>	1 lecture period & 2 practical periods per week for 14 weeks
<b>Prerequisites:</b>	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 module is a semester module.

**Content**

All content in this module will be covered in 42 hours.

- Introduction of the Personal Computer
- Components of the computer
- Practical Introduction to Microsoft Windows
- 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

<b>MODULE TITLE:</b>	<b>COMMUNICATION &amp; STUDY SKILLS FOR NURSES</b>
<b>Code:</b>	UCN2110 old MODULE (ULCE 3419 equivalent)
<b>NQF Level:</b>	5
<b>Total Credits:</b>	32
<b>Contact Hours:</b>	4 lecture periods per week
<b>Prerequisites:</b>	Nil but is a Faculty Core Curriculum module

**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 module helps students develop academic reading, writing, oral presentation and study skills needed to meet the demands of university modules. 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

<b>MODULE TITLE:</b>	<b>ENGLISH FOR ACADEMIC PURPOSES</b>
<b>Code:</b>	ULEA 3419 (UCA3119 equivalent)
<b>NQF Level:</b>	
<b>Credits:</b>	
<b>Contact Hours:</b>	
<b>Prerequisites:</b>	

**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.

## AA.6 ENGLISH COMMUNICATION AND STUDY SKILLS

### MODULE TITLE: ENGLISH COMMUNICATION FOR NURSING SCIENCE

<b>Code:</b>	ULCE3419
<b>Contact time:</b>	56hours (4L/ Week)
<b>Assessment:</b>	Continuous 60% (test)
<b>Pre- requisites:</b>	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 (writing, reading, speaking and listening)

## AA.7 APPLIED BIOLOGICAL SCIENCES

Semester 1

<b>MODULE TITLE:</b>	<b>APPLIED BIOLOGICAL SCIENCES I</b>
<b>Code:</b>	NAB 2111
<b>NQF Level:</b>	5
<b>Credits:</b>	16
<b>Contact Hours:</b>	4 lecture periods & 20 hours of practical experience per week
<b>Prerequisites:</b>	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 module. The module is divided into 8 units:

- Unit 1:** The introduction to human body and definition of commonly used terms
- Unit 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 skeletal
- Unit 6:** The Articulations
- Unit 7:** The Muscular system
- Unit 8:** The Digestive system

Semester 2

### MODULE TITLE: APPLIED BIOLOGICAL SCIENCES I

<b>Code:</b>	NAB 2112
<b>NQF Level:</b>	5
<b>Credits:</b>	16
<b>Contact Hours:</b>	4 lecture periods & 20 hours of practical experience per week
<b>Co-requisites:</b>	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.

**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 module.

This module is divided into seven units:

- Unit 9:** 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**

<b>Code:</b>	NAB 2211/2212
<b>NQF Level:</b>	6
<b>Credits:</b>	32
<b>Contact Hours:</b>	4 Lecture periods & 20 periods of practical work per week
<b>Prerequisites:</b>	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

<b>MODULE TITLE:</b>	<b>APPLIED BIOLOGICAL SCIENCES III</b>
<b>Code:</b>	NAB 2311 & 2312
<b>NQF Level:</b>	6
<b>Credits:</b>	32
<b>Contact Hours:</b>	4 Lecture periods and 20 hours for practical work per week
<b>Prerequisites:</b>	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 module 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 anthelmintics.
- 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

<b>MODULE TITLE:</b>	<b>COMMUNITY HEALTH NURSING SCIENCE I</b>
<b>Code:</b>	NCH 2110
<b>NQF Level:</b>	5
<b>Total Credits:</b>	32
<b>Contact Hours (theory):</b>	20 per week
<b>Total Contact Hours:</b>	24 per week
<b>Prerequisites:</b>	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 module 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

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

#### Module Assessment:

Continuous Assessment theory 50% 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 module 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 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

#### 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

<b>Code:</b>	NCH 2310
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<b>NQF Level:</b>	6
<b>Credits:</b>	32
<b>Contact Hours:</b>	4 lecture periods and 20 practical periods per week
<b>Prerequisites:</b>	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 tuberculosis 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**

<b>Code:</b>	NCH 2410
<b>NQF Level:</b>	7
<b>Total Credits:</b>	32
<b>Contact Hours (theory):</b>	4 per week
<b>Contact Hours (practical):</b>	24 per week
<b>Total Contact Hours:</b>	28 per week
<b>Prerequisites:</b>	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 module 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:**

**AResearch 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 3:** 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

<b>MODULE TITLE:</b>	<b>NURSING ETHOS AND PROFESSIONAL PRACTICE</b>
<b>Code:</b>	NEP 2112
<b>NQF Level:</b>	5
<b>Total Credits:</b>	16
<b>Contact Hours:</b>	4 lecture periods per week
<b>Prerequisites:</b>	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 module 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 module 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 module is divided into two parts. The first part of the module NEP 2112 (1a), is a semester module taught during the first year of study (semester II), and the second part is also a semester module, (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)**

<b>MODULE TITLE:</b>	<b>NURSING ETHOS AND PROFESSIONAL PRACTICE</b>
<b>Code:</b>	NEP 2409
<b>NQF Level:</b>	5
<b>Credits:</b>	16
<b>Contact Hours:</b>	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 module, a student is expected to understand

Semester1

**Content:**

Unit 1: 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
NQF Level:	5
Credits:	32
Contact Hours:	4 lecture periods per week & 20 hours of practical experience per week
Prerequisites:	Nil

**Module Assessment:**

Students are given five written tests/assignments per year. In a practical situation, objective structural assessments are conducted regularly; including evaluations in both clinical and Simulation Laboratories. Case studies are done in each clinical setting.

Final examination: Written and practical examinations are conducted at the end of every academic year. 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 year. The weight ratio between the theory and practical examination mark is 50:50.

**Module Description:**

This module forms a basis for addressing the basic needs of patients/clients. It will enable the student to develop the cognitive, psychomotor and effective skills to care for individual, vulnerable groups, families and community in totality. This module will also enable the student to develop knowledge and skills to assess, plan, implement and evaluate the nursing interventions for the basic needs for the patient.

**Content:**

The module 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 module 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 practical. 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 module 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**

<b>MODULE TITLE:</b>	<b>GENERAL NURSING SCIENCE III</b>
<b>Code:</b>	NGN 2310
<b>NQF Level:</b>	6
<b>Credits:</b>	32
<b>Contact Hours:</b>	4 lecture periods & 20 clinical per week
<b>Prerequisites:</b>	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**

<b>MODULE TITLE:</b>	<b>GENERAL NURSING SCIENCE IV</b>
<b>Code:</b>	NGN 2410
<b>NQF Level:</b>	7
<b>Credits:</b>	32
<b>Contact Hours:</b>	4 lecture periods and 20 practical experiences per week
<b>Prerequisite:</b>	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)**

<b>MODULE TITLE:</b>	<b>MENTAL HEALTH</b>
<b>Code:</b>	MNH 2410
<b>NQF Level:</b>	6
<b>Credits:</b>	32
<b>Contact Hours:</b>	4 lecture periods and 20 practical hours per week
<b>Prerequisite:</b>	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 TITLE:	MIDWIFERY SCIENCE I
<b>Code:</b>	NMS 2210
<b>Credits:</b>	32
<b>NQF Level:</b>	6
<b>Contact Hours:</b>	4 Lecture Periods And 20 Practical Hours per week
<b>Prerequisites:</b>	Midwifery Science I NMS 2210, NAB2111/2112, NGN2110

#### 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 module 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.  
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
<b>Code:</b>	NMS 2310
<b>Credits:</b>	32
<b>NQF Level:</b>	6
<b>Contact Hours:</b>	4 Lecture Periods And 20 Practical Hours per week
<b>Prerequisites:</b>	Midwifery Science I NMS 2210, NAB2211/2212, NGN2210

#### 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 module 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

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

### Module Assessment:

Two written tests and one assignment. Each test will add up to 30% of the MODULE mark; the assignment will add up to 40% of the module 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

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

### Module Assessment:

Two written tests and one assignment. Each test will add up to 30% of the module mark; the assignment will add up to 40% of the module 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.

### 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 MODULE DESCRIPTOR: PRINCIPLES OF NORMAL MIDWIFERY SCIENCE

<b>Module title:</b>	<b>Principles of Normal Midwifery Science</b>
<b>Module Code:</b>	NNMS4510
<b>NQF Level:</b>	5
<b>Credits:</b>	32
<b>Contact Hours:</b>	4 lecture periods per week x 28 weeks

**Prerequisites** Nil

**Module assessment:** Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

**Module Description:**

This module focuses on developing and broadening the student's knowledge of midwifery science and enables the student to gain insight into new aspects and approaches in this field. The student should be able to provide comprehensive reproductive health care during antenatal, labour and postnatal periods within the cultural ethical and legal scope of practice at all levels

**BB.2 MODULE DESCRIPTOR: COMPLICATIONS IN MIDWIFERY SCIENCE**

<b>Module Title:</b>	<b>Complications in Midwifery Science</b>
<b>Module Code:</b>	NCMS 4630
<b>NQF Level:</b>	6
<b>Credits:</b>	32
<b>Contact Hours:</b>	4 lecture periods per week x 28 weeks
<b>Prerequisites:</b>	None

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

**Module description**

This module is designed to enable the student to identify and manage emergencies and complications during labour, puerperium and in the newborn baby within the cultural, ethical and legal scope of practice at all levels. Knowledge gained will enable the student to develop critical thinking, proficiency in psychomotor skills and strengthen affective behaviours required for midwifery practice within the cultural, ethical and legal scope of practice at all levels.

**BB.3 MODULE DESCRIPTOR: CLINICAL ATTACHMENT FOR MIDWIFERY SCIENCE**

<b>Module Title:</b>	<b>Clinical Attachment for Midwifery Science</b>
<b>Module Code:</b>	NMCA 4670
<b>NQF Level:</b>	6
<b>Credits:</b>	32
<b>Contact Hours:</b>	16 periods/ week x 28 weeks
<b>Co requisites:</b>	None

**Module assessment:**

Continuous assessment 50% : A minimum of four case presentations[General rule 7.21.3(2)]  
Examination 50%: practical examination

**Module description**

This module is designed to enable the student to integrate and demonstrate cognitive, psychomotor and affective skills required for midwifery practice, within the cultural, ethical and legal scope of practice at all levels of care.

**BB.4 MODULE DESCRIPTOR: APPLIED SCIENTIFIC FOUNDATIONS IN MIDWIFERY**

<b>Module Title:</b>	<b>Applied Scientific Foundations in Midwifery</b>
<b>Module Code:</b>	NASF4580
<b>NQF Level:</b>	5
<b>Credits:</b>	24
<b>Contact Hours:</b>	3/week x 28 weeks
<b>Co requisites:</b>	None

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]; Examination 50% : [1 x 3hr paper]

**Module description:** This module contains information that will help the student to develop better understanding of: applied anatomy relevant to Reproductive Health care; conception and fetal development and physiological changes and hormonal functions during pregnancy, labour and puerperium.

**BB.5 MODULE DESCRIPTOR: ETHOS AND PROFESSIONAL PRACTICE**

<b>Module Title</b>	<b>Ethos and Professional Practice</b>
<b>Module Code:</b>	NEPP 4680
<b>NQF Level:</b>	6
<b>Credits:</b>	24
<b>Contact Hours:</b>	3/week x 28 weeks
<b>Co requisites:</b>	None



**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]; Examination 50%: 1x 3hr paper

**Module description**

This module is designed to enable the student to integrate and apply aspects of ethics and professional practice into midwifery. This includes cultural, ethical and legal scope of practice at all levels of care.

**BB.6 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING SCIENCE 1**

<b>Module Title:</b>	<b>Community Health Nursing Science I</b>
<b>Subject code:</b>	NNCH3680
<b>NQF Level:</b>	6
<b>Contact hours:</b>	4 periods per week x 28 weeks
<b>Credits:</b>	32
<b>Prerequisite:</b>	None

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]; Examination 50%: [1 x 3hr paper]

**Module description:**

This module prepares the student to practice as a professional nurse practitioner in the community

**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 Module  
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 Module 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 1 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 Module

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 Module

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 MODULE

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 Module

Papers 1 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. POST GRADUATE DIPLOMA OPERATING ROOM

### DD.1 MODULE DESCRIPTOR: HEALTH SERVICE MANAGEMENT 1

<b>Module title:</b>	Health Service Management I
<b>Code:</b>	NHSM4890
<b>Equivalent :</b>	NHM7119
<b>NQF level:</b>	8
<b>Contact hours:</b>	3hours per week for 28 weeks Actual contact: video conferencing and vacation schools
<b>Credits:</b>	24

#### Module assessment:

Continuous assessment 50%: A minimum of four tests/assignments [General rule .21.3(2)]  
 Examination 50%: [1 x 3hr paper]

#### Module description:

This module aims to develop a student's knowledge, understanding and skills regarding health services management related to the historical and theoretical foundations of nursing management, the management process related to a nursing unit, professional practice in health care service management.

### DD.2 MODULE DESCRIPTOR: FOUNDATIONS OF PROFESSIONAL PRACTICE

<b>Module Title:</b>	Foundations of Professional Practice
<b>Subject Code:</b>	NFPP4881
<b>NQF level:</b>	8
<b>Contact hours:</b>	3 Hours per week x 14 weeks
<b>Credits:</b>	12
<b>Prerequisite:</b>	None

#### Module assessment:

Continuous assessment 50%: A minimum of two tests/assignments. [General rule .21.3(2)]  
 Examination 50%: [1 x 3hr paper]

#### Module description:

This module prepares the registered nurse to practice nursing within the philosophical, ethical and legal foundations of professional nursing practice.

### DD.3 MODULE DESCRIPTOR: DYNAMICS OF ADVANCE NURSING PRACTICE

<b>Module Title:</b>	Dynamics of Advance Nursing Practice
<b>Subject Code:</b>	NDAP4882
<b>NQF level:</b>	8
<b>Contact hours:</b>	3 Hours per week x 14 weeks
<b>Credits:</b>	12

**Prerequisite:** None

**Module assessment:**

Continuous assessment 50%: A minimum of two tests/assignments.[General rule 7.21.3(2)]

Examination 50%: [1 x 3hr paper]

**Module description:**

This module aims to prepare registered nurses to understand and argue on the factors that are dynamic to professional nursing practice in selected clinical specialties.

**DD.4 MODULE DESCRIPTOR: HEALTH RESEARCH METHODS**

**Module Title:** Health Research Methods

**Subject Code:** NNHR4820

**NQF level:** 8

**Contact hours:** 2 Hours per week x 28 weeks

**Credits:** 16

**Prerequisite:** None

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments.[General rule 7.21.3(2)]

Examination 50%: [1 x 3hr paper]

**Module description:**

This 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 evidence based care that promotes quality outcomes for patients, families, health care providers and the health

**DD.5 MODULE DESCRIPTOR: OPERATING ROOM NURSING**

**Module title:** Operating Room Nursing

**Code:** NORN 4810

**NQF Level:** 8

**Contact Hours:** 4 periods per week for 28 weeks

**Credits:** 32

**Pre-requisite:** None

**Module Assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]

Examination 50%: [2 x 3hr papers]

**Module Description:**

To prepare a clinical nurse specialist in operating room nursing practice that would be able to function efficiently in the operating room. The practitioner must be able to assess, plan, implement, and evaluate all surgical and nursing interventions.

**DD.6 MODULE DESCRIPTOR: OPERATING ROOM NURSING PRACTICAL**

**Module title:** Operating Room Nursing Practical

**Code:** NPOR 4830

**NQF Level:** 8

**Contact Hours:** 4 periods per week for 28 weeks

**Credits:** 32

**Pre-requisite:** None

**Module Assessment:** Practical - three days per week self directed and accompanying learning for 28weeks (19 periods (hours) planned and supervised clinical work per week). Continuous assessment 50%: A minimum of four tests/assignments/case presentation [General rule 7.21.3(2)];

Examination 50%: 1 practical examination

**Module Description:**

To prepare a clinical nurse specialist in operating room nursing practice that would be able to function efficiently in the operating room. The operating room nursing student must be able to assess, plan, implement, and evaluate all surgical and nursing interventions. The operating room nursing student will learn to assist the surgeon during an operative procedure efficiently and skill fully to prevent medical legal hazards.

**DD.7 MODULE DESCRIPTOR: SURGICAL HUMAN ANATOMY**

**Module title:** Surgical Human Anatomy

**Code:** NSHA 4811

**NQF Level:** 8

**Contact Hours:** 4 periods per week for 14 Weeks

**Credits:** 16

**Pre-requisite:** Registered Nurse; B degree or equivalent

**Module Assessment:**

Continuous assessment 50%: A minimum of two tests/assignments. [General rule 7.21.3(2)]  
 Examination 50%: [1 x 3hr paper]

**Module Description:**

This module aims at equipping the operating room nursing student with anatomical knowledge in order to apply these in the operating room. This application entails to be pro-active in the planning for surgery as well as to be able to focus on applicable post operative assessments

**DD.8 MODULE DESCRIPTOR: SURGICAL MICROBIOLOGY**

<b>Module title:</b>	<b>Surgical Microbiology</b>
<b>Code:</b>	NSMB4802
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	2 periods per week for 14 Weeks
<b>Credits:</b>	8
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of two tests/assignments [General rule 7.21.3(2)]  
 Examination 50%: [1 x 3hr paper]

**Module description:**

This module focuses on preparing a nursing specialist in operating room nursing to control microbial growth in the surgical unit(s) as well as to relate microbial knowledge to patient safety.

**DD.9 MODULE DESCRIPTOR: SURGICAL PHARMACOLOGY**

<b>Module title</b>	<b>Surgical Pharmacology</b>
<b>Code:</b>	NNSP 4822
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	2 periods per week for 14 Weeks
<b>Credits:</b>	8
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of two tests/assignments. [General rule 7.21.3(2)]  
 Examination 50%: [1 x 3hr paper]

**Module description:**

This module focuses on preparing a nursing specialist in operating room nursing to assist with the administration of drugs (medicines) during the intra-operative phases of surgery and to assess the effects, and provide applicable health education. This is done in accordance with *The Medicines and Related Substance Control Act (ACT no. 13 of 2003)* & *The Nursing Act (Act no. 8 of 2004)*

**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 programme 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. POST GRADUATE DIPLOMA IN NURSING SCIENCE CRITICAL CARE**

## EE.1 MODULE DESCRIPTOR: HEALTH SERVICE MANAGEMENT 1

<b>Module title:</b>	Health Service Management I
<b>Code:</b>	NHSM4890
<b>Equivalent :</b>	NHM7119
<b>NQF level:</b>	8
<b>Contact hours:</b>	3hours per week for 28 weeks Actual contact: video conferencing and vacation schools
<b>Credits:</b>	24

### Module assessment:

Continuous assessment 50%: A minimum of four tests/assignments [General rule .21.3(2)]  
Examination 50%: [ 1 × 3 hour paper ]

### Module description:

This module aims to develop a student's knowledge, understanding and skills regarding health services management related to the historical and theoretical foundations of nursing management, the management process related to a nursing unit, professional practice in health care service management.

## EE.2 MODULE DESCRIPTOR: FOUNDATIONS OF PROFESSIONAL PRACTICE

<b>Module Title:</b>	Foundations of Professional Practice
<b>Subject Code:</b>	NFPP4881
<b>NQF level:</b>	8
<b>Contact hours:</b>	3 Hours per week x 14 weeks
<b>Credits:</b>	12
<b>Prerequisite:</b>	None

### Module assessment:

Continuous assessment 50% : A minimum of two tests/assignments. [General rule .21.3(2)]  
Examination 50%: [1 x 3hr paper]

### Module description:

This module prepares the registered nurse to practice nursing within the philosophical, ethical and legal foundations of professional nursing practice.

## EE.3 MODULE DESCRIPTOR: DYNAMICS OF ADVANCE NURSING PRACTICE

<b>Module Title:</b>	Dynamics of Advance Nursing Practice
<b>Subject Code:</b>	NDAP4882
<b>NQF level:</b>	8
<b>Contact hours:</b>	3 Hours per week x 14 weeks
<b>Credits:</b>	12
<b>Prerequisite:</b>	None

### Module assessment:

Continuous assessment 50%: A minimum of two tests/assignments.[General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

### Module description:

This module aims to prepare registered nurses to understand and argue on the factors that are dynamic to professional nursing practice in selected clinical specialties.

## EE.4 MODULE DESCRIPTOR: HEALTH RESEARCH METHODS

<b>Module Title:</b>	Health Research Methods
<b>Subject Code:</b>	NNHR4820
<b>NQF level:</b>	8
<b>Contact hours:</b>	2 Hours per week x 28 weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	None

### Module assessment:

Continuous assessment 50%: A minimum of four tests/assignments.[General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

### Module description:

This 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 evidence based care that promotes quality outcomes for patients, families, health care providers and the health

## EE.5 MODULE DESCRIPTOR: CRITICAL CARE NURSING

<b>Module title:</b>	Critical Care Nursing
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<b>Code:</b>	NCCN4850
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	4 periods per week for 28 weeks
<b>Credits:</b>	32
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
 Examination 50%: [2 x 3hr papers].

**Module Description:**

To prepare a clinical nurse specialist in critical care nursing that would be able to function where ever there are patients with life-threatening problems like in operating room recovery areas, intensive care units or in general wards

**EE.6 MODULE DESCRIPTOR: CRITICAL CARE NURSING PRACTICAL**

<b>Module title:</b>	<b>Critical Care Nursing Practical</b>
<b>Code:</b>	NCCP4870
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	20 hours per week per week for 28 Weeks
<b>Credits:</b>	32
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
 Examination 50%: [1 x 3hr paper] & 1 practical examination

**Module Description:**

To prepare a clinical nurse specialist in critical care nursing that would be able to function where ever there are patients with life-threatening problems like in operating room recovery areas, intensive care units or in general wards

**EE.7 MODULE DESCRIPTOR: SPECIALIZED HUMAN ANATOMY AND PHYSIOLOGY**

<b>Module title:</b>	<b>Specialized Human Anatomy and Physiology</b>
<b>Code:</b>	NHAP4811
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	4 periods per week for 14 Weeks
<b>Credits:</b>	16
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of two tests/assignments. [General rule 7.21.3(2)]  
 Examination 50%: [1 x 3hr paper]

**Module Description:**

This module aims at equipping the post graduate nursing student with knowledge and skills to recognize anatomical and physiological changes that could occur in patients with life threatening disorders. The focus is on the cardiovascular, respiratory, renal, nervous and endocrine systems

**EE.8 MODULE DESCRIPTOR: EMERGENCY MEDICINE**

<b>Module title:</b>	<b>Emergency Medicine</b>
<b>Code:</b>	NNEM 4812
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	2 periods per week for 14 Weeks
<b>Credits:</b>	8
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of two tests/assignments. [General rule 7.21.3(2)]  
 Examination 50%: [1 x 3hr paper]

**Module Description:**

This module describes aspects of medicines utilized to alter or normalize the body during life threatening situations or medicines that require intensive nursing care once administered

**EE.9 MODULE DESCRIPTOR: PHYSICAL ASSESSMENT AND WOUND CARE**

<b>Module title:</b>	<b>Physical Assessment and Wound Care</b>
<b>Code:</b>	NPAW 4882
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	3 periods per week for 14 Weeks



**Credits:** 12  
**Pre-requisite:** None

**Module Assessment:**

Continuous assessment 50%: A minimum of two tests/assignments. [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper] and 1 practical examination

**Module Description:**

This module aims at equipping the post graduate nursing student with skills to conduct an assessment and a critically ill patient. This assessment will consist of a primary and secondary survey, an analysis of ECG manifestations, laboratory results, imaging findings and an assessment of the skin integrity and wounds.

## **FF.POST GRADUATE DIPLOMA HEALTH PROMOTION, CLINICAL DIAGNOSIS AND TREATMENT**

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### **FF.1 MODULE DESCRIPTOR: HEALTH SERVICE MANAGEMENT 1**

<b>Module title:</b>	<b>Health Service Management I</b>
<b>Code:</b>	NHSM4890
<b>Equivalent :</b>	NHM7119
<b>NQF level:</b>	8
<b>Contact hours:</b>	3hours per week for 28 weeks Actual contact: video conferencing and vacation schools
<b>Credits:</b>	24

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule .21.3(2)]  
Examination 50%: [1 x 3hr paper]

**Module description:**

This module aims to develop a student's knowledge, understanding and skills regarding health services management related to the historical and theoretical foundations of nursing management, the management process related to a nursing unit, professional practice in health care service management.

### **FF.2 MODULE DESCRIPTOR: FOUNDATIONS OF PROFESSIONAL PRACTICE**

<b>Module Title:</b>	<b>Foundations of Professional Practice</b>
<b>Subject Code:</b>	NFPP4881
<b>NQF level:</b>	8
<b>Contact hours:</b>	3 Hours per week x 14 weeks
<b>Credits:</b>	12
<b>Prerequisite:</b>	None

**Module assessment:**

Continuous assessment 50% : A minimum of two tests/assignments. [General rule .21.3(2)]  
Examination 50%: [1 x 3hr paper]

**Module description:**

This module prepares the registered nurse to practice nursing within the philosophical, ethical and legal foundations of professional nursing practice.

### **FF.3 MODULE DESCRIPTOR: DYNAMICS OF ADVANCE NURSING PRACTICE**

<b>Module Title:</b>	<b>Dynamics of Advance Nursing Practice</b>
<b>Subject Code:</b>	NDAP4882
<b>Equivalent:</b>	<b>NQF level:</b> 8
<b>Contact hours:</b>	3 Hours per week x 14 weeks
<b>Credits:</b>	12
<b>Prerequisite:</b>	None

**Module assessment:**

Continuous assessment 50%: A minimum of two tests/assignments.[General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

**Module description:**

This module aims to prepare registered nurses to understand and argue on the factors that are dynamic to professional nursing practice in selected clinical specialties.

#### FF.4 MODULE DESCRIPTOR: HEALTH RESEARCH METHODS

<b>Module Title:</b>	Health Research Methods
<b>Subject Code:</b>	NNHR4820
<b>NQF level:</b>	8
<b>Contact hours:</b>	2 Hours per week x 28 weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	None

##### Module assessment:

Continuous assessment 50%: A minimum of four tests/assignments.[General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

##### Module description:

This 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 evidence based care that promotes quality outcomes for patients, families, health care providers and the health system.

#### FF.5 MODULE DESCRIPTOR: ADVANCED HEALTH PROMOTION

<b>Module title:</b>	Advanced Health Promotion
<b>Subject Code:</b>	NAHP 4850
<b>NQF level</b>	8
<b>Contact hours:</b>	4 hours per week x 28 weeks
<b>Credit:</b>	32
<b>Pre- requisite:</b>	None

##### Module assessment

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

##### Module description:

The main aim of this module is to prepare a competent advanced diploma nurse graduate to provide comprehensive primary health care on a local and referral level.

#### FF.6 MODULE DESCRIPTOR: PRACTICAL- CLINICAL DIAGNOSIS AND TREATMENT

<b>Module Title:</b>	Practical- Clinical Diagnosis and treatment
<b>Code:</b>	NCDT 4870
<b>NQF:</b>	8
<b>Contact hours:</b>	4hours per week x 28 weeks self directed and accompanying learning
<b>Credits:</b>	32
<b>Pre- requisite:</b>	None

##### Module Assessment:

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
Examination 50% : [1 x 3hr paper]& 1 practical examination

**Module Description:** This module aims at improvement of reflective practical skills in assessing and analyzing health problems. This requires a profound knowledge of all systems of the human body, including how to obtain a comprehensive disease history, perform a comprehensive adult and pediatric physical examination, make an accurate diagnosis and manage the most prevailing health problems in Namibia.

#### FF.7 MODULE DESCRIPTOR: SPECIALIZED HUMAN ANATOMY AND PHYSIOLOGY

<b>Module title:</b>	Specialized Human Anatomy and Physiology
<b>Code:</b>	NHAP4811
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	4 periods per week for 14 Weeks
<b>Credits:</b>	16
<b>Pre- requisite:</b>	None

##### Module Assessment:

Continuous assessment 50%: A minimum of two tests/assignments [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

##### Module Description:

This module aims at equipping the post graduate nursing student with knowledge and skills to recognize anatomical and physiological changes that could occur in patients with life threatening disorders. The focus is on the cardiovascular, respiratory, renal, nervous and endocrine systems

#### FF.8 MODULE DESCRIPTOR: ADVANCED PHARMACOLOGY

<b>Module title:</b>	Advanced Pharmacology
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<b>Code:</b>	NNAP 4812
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	4 periods per week for 14 Weeks
<b>Credits:</b>	16
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of two tests/assignments [General rule 7.21.3(2)]  
 Examination 50% : [1 x 3hr paper]

**Module description:**

This module focuses on preparing a nursing specialist to acquire, keep, prescribe and issue medicines. This is done in accordance with *The Medicines and Related Substance Control Act (ACT no. 13 of 2003)* & *The Nursing Act (Act no. 8 of 2004)*

## **GG. POST GRADUATE DIPLOMA: CLINICAL INSTRUCTION**

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### **GG.1 MODULE DESCRIPTOR: HEALTH SERVICE MANAGEMENT 1**

<b>Module title:</b>	<b>Health Service Management I</b>
<b>Code:</b>	NHSM4890
<b>Equivalent :</b>	NHM7119
<b>NQF level:</b>	8
<b>Contact hours:</b>	3hours per week for 28 weeks Actual contact: video conferencing and vacation schools
<b>Credits:</b>	24

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule .21.3(2)]  
 Examination 50%: [1 × 3 hour paper]

**Module description:**

This module aims to develop a student's knowledge, understanding and skills regarding health services management related to the historical and theoretical foundations of nursing management, the management process related to a nursing unit, professional practice in health care service management.

### **GG.2 MODULE DESCRIPTOR: FOUNDATIONS OF PROFESSIONAL PRACTICE**

<b>Module Title:</b>	<b>Foundations of Professional Practice</b>
<b>Subject Code:</b>	NFPP4881
<b>NQF level:</b>	8
<b>Contact hours:</b>	3 Hours per week x 14 weeks
<b>Credits:</b>	12
<b>Prerequisite:</b>	None

**Module assessment:**

Continuous assessment 50% : A minimum of two tests/assignments. [General rule .21.3(2)]  
 Examination 50%: [1x 3 hr paper]

**Module description:**

This module prepares the registered nurse to practice nursing within the philosophical, ethical and legal foundations of professional nursing practice.

### **GG.3 MODULE DESCRIPTOR: DYNAMICS OF ADVANCE NURSING PRACTICE**

<b>Module Title:</b>	<b>Dynamics of Advance Nursing Practice</b>
<b>Subject Code:</b>	NDAP4882
<b>NQF level:</b>	8
<b>Contact hours:</b>	3 Hours per week x 14 weeks
<b>Credits:</b>	12
<b>Prerequisite:</b>	None

**Module assessment:**

Continuous assessment 50%: A minimum of two tests/assignments.[General rule 7.21.3(2)]  
 Examination 50%: [1x 3 hr paper]

**Module description:**

This module aims to prepare registered nurses to understand and argue on the factors that are dynamic to professional nursing practice in selected clinical specialties.

#### GG.4 MODULE DESCRIPTOR: HEALTH RESEARCH METHODS

<b>Module Title:</b>	Health Research Methods
<b>Subject Code:</b>	NNHR4820
<b>NQF level:</b>	8
<b>Contact hours:</b>	2 Hours per week x 28 weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	None

##### Module assessment:

Continuous assessment 50%: A minimum of four tests/assignments.[General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

##### Module description:

This 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 evidence based care that promotes quality outcomes for patients, families, health care providers and the health system

#### GG.5 MODULE DESCRIPTOR: FRAMEWORK OF CLINICAL INSTRUCTION

<b>Module title:</b>	Framework of clinical instruction
<b>Code:</b>	NFCI4820
<b>NQF level:</b>	8
<b>Contact hours:</b>	2 hours per week x 28 weeks
<b>Credits:</b>	8
<b>Pre-requisites:</b>	Degree in Nursing and midwifery or equivalent (Comprehensive Diploma in Nursing and Midwifery). Registration at the Nursing Council of Namibia

##### Module assessment:

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]; Examination 50% : [1 x 3hr paper]

##### Module description

This module aims at producing a competent registered nurse capable in teaching nursing students in giving expert patient care which is based on sound knowledge and practiced skill. In order to achieve this aim, nursing education must be based on theory and applied in practice. 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 education . Learners will be enriched as they internalize the attitudes, values and ideals that flow from their educational preparation.

#### GG.6 MODULE DESCRIPTOR: FACILITATION OF CLINICAL INSTRUCTION

<b>Module title:</b>	Facilitation of clinical instruction
<b>Code:</b>	NCIF 4840
<b>NQF level:</b>	8
<b>Contact hours:</b>	2 hours per week x 28
<b>Credits:</b>	8

##### Module assessment:

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]; Examination 50% : [1 x 3hr paper]

**Pre-requisites:** Degree in Nursing and midwifery or equivalent (Comprehensive Diploma in Nursing and Midwifery) Registration at the Namibia Nursing Council

**Module Description:** This module focuses on the facilitation of clinical nursing education by including the strategies and assessment of clinical education to nurses. In order to achieve this aim, clinical education must be based on theory and applied in practice. It emphasizes the role of the nurse educator as facilitator in learning and includes the scientific nursing process as framework for problem solving, decision making and critical thinking.

#### GG.7 MODULE DESCRIPTOR: CLINICAL ATTACHMENT

<b>Module title:</b>	Clinical attachment
<b>Code:</b>	NNCA 4850
<b>NQF level:</b>	8
<b>Contact hours:</b>	28 weeks. According to a timetable approved by the Faculty in order to full fill the requirements as set out below in the module descry
<b>Credits:</b>	32
<b>Pre-requisites:</b>	Diploma in Nursing and midwifery; Registration at the Nursing Council of Namibia.

##### Module assessment:

Continuous 50% (at least 50% of all teaching sessions); Practical Examination which will include 50% of all listed teaching sessions.

##### Module Description

This module aims at producing a competent registered nurse competent in teaching nursing students in rendering 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 in the undertaking of teaching practice. Nursing education must be based on theory and applied in practice and include teaching such skills as leadership and administration, teaching, organizing and controlling staff. The teaching practice includes gaining experience in clinical teaching on ward level. Opportunity will also be provided to observe nursing lecturers in teaching practice.

## GG.8 MODULE DESCRIPTOR: SPECIALIZED HUMAN ANATOMY AND PHSIOLOGY

<b>Module title:</b>	<b>Specialized Human Anatomy and Physiology</b>
<b>Code:</b>	NHAP4811
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	4 periods per week for 14 Weeks
<b>Credits:</b>	16
<b>Pre- requisite:</b>	None

### Module Assessment:

Continuous assessment 50%: A minimum of two tests/assignments. [General rule 7.21.3(2)]

Examination 50%: [1 x 3hr paper]

### Module Description:

This module aims at equipping the post graduate nursing student with knowledge and skills to recognize anatomical and physiological changes that could occur in patients with life threatening disorders. The focus is on the cardiovascular, respiratory, renal, nervous and endocrine systems

## GG.9 MODULE DESCRIPTOR: PHYSICAL ASSESSMENT AND WOUND CARE

<b>Module title:</b>	<b>Physical Assessment and Wound Care</b>
<b>Code:</b>	NPAW 4882
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	3 periods per week for 14 Weeks
<b>Credits:</b>	12
<b>Pre- requisite:</b>	None

### Module Assessment:

Continuous assessment 50%: A minimum of two tests/assignments/case presentations. [General rule 7.21.3(2)]

Examination 50%: [1 x 3hr paper] & 1 practical examination

### Module Description:

This module aims at equipping the post graduate nursing student with skills to conduct a assessment and a critically ill patient. This assessment will consists of a primary and secondary survey, an analysis of ECG manifestations, laboratory results, imaging findings and an assessment of the skin integrity and wounds

## HH. POST GRADUATE DIPLOMA: EMERGENCY NURSING

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### HH.1 MODULE DESCRIPTOR: HEALTH SERVICE MANAGEMENT 1

<b>Module title:</b>	<b>Health Service Management I</b>
<b>Code:</b>	NHSM4890
<b>Equivalent :</b>	NHM7119
<b>NQF level:</b>	8
<b>Contact hours:</b>	3hours per week for 28 weeks Actual contact: video conferencing and vacation schools
<b>Credits:</b>	24

### Module assessment:

Continuous assessment 50%: A minimum of four tests/assignments [General rule .21.3(2)]

Examination 50%: [1 × 3 hour paper]

### Module description:

This module aims to develop a student's knowledge, understanding and skills regarding health services management related to the historical and theoretical foundations of nursing management, the management process related to a nursing unit, professional practice in health care service management.

### HH.2 MODULE DESCRIPTOR: FOUNDATIONS OF PROFESSIONAL PRACTICE

<b>Module Title:</b>	<b>Foundations of Professional Practice</b>
<b>Subject Code:</b>	NFPP4881
<b>NQF level:</b>	8
<b>Contact hours:</b>	3 Hours per week x 14 weeks

**Credits:** 12  
**Prerequisite:** None

**Module assessment:**

Continuous assessment 50% : A minimum of two tests/assignments. [General rule .21.3(2)]  
Examination 50%: [1x 3 hr paper ]

**Module description:**

This module prepares the registered nurse to practice nursing within the philosophical, ethical and legal foundations of professional nursing practice.

**HH.3 MODULE DESCRIPTOR: DYNAMICS OF ADVANCE NURSING PRACTICE**

<b>Module Title:</b>	<b>Dynamics of Advance Nursing Practice</b>
<b>Subject Code:</b>	NDAP4882
<b>NQF level:</b>	8
<b>Contact hours:</b>	3 Hours per week x 14 weeks
<b>Credits:</b>	12
<b>Prerequisite:</b>	None

**Module assessment:**

Continuous assessment 50%: A minimum of two tests/assignments.[General rule 7.21.3(2)]  
Examination 50%: [1x 3 hr paper]

**Module description:**

This module aims to prepare registered nurses to understand and argue on the factors that are dynamic to professional nursing practice in selected clinical specialties.

**HH.4 MODULE DESCRIPTOR: HEALTH RESEARCH METHODS**

<b>Module Title:</b>	<b>Health Research Methods</b>
<b>Subject Code:</b>	NNHR4820
<b>NQF level:</b>	8
<b>Contact hours:</b>	2 Hours per week x 28 weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	None

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments. [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

**Module description:**

This 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 evidence based care that promotes quality outcomes for patients, families, health care providers and the health system

**HH.5 MODULE DESCRIPTOR: EMERGENCY NURSING**

<b>Module title</b>	<b>Emergency Nursing</b>
<b>Code:</b>	NNEN4850
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	4 periods per week for 28 Weeks
<b>Credits:</b>	12
<b>Pre- requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
Examination 50% : [2 x 3hr papers] & 1 practical examination

**Module Description:**

Emergency Nursing is a module aimed at enhancing advanced skills for registered nurses. These skills focus on instilling proficiency in basic and advanced cardiac life support. After completion of this module the registered nurse should therefore be able to assess, triage and intervene in any life threatening health situation of a client/patient of any age group. Finally, they should be able to collaborate with the multidisciplinary emergency team and provide support to the family

**HH.6 MODULE DESCRIPTOR: EMERGENCY NURSING PRACTICAL**

<b>Module title:</b>	<b>Emergency Nursing Practical</b>
<b>Code:</b>	NENP4870
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	20 hours per week per week for 28 Weeks

**Credits:** 32  
**Pre-requisite:** None

**Module Assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
Examination 50% : [1 x 3hr paper] & 1 practical examination

**Module Description:**

Emergency Nursing is a module aimed at enhancing advanced skills for registered nurses. These skills focus on instilling proficiency in basic and advanced cardiac life support. After completion of this module the registered nurse should therefore be able to assess, triage and intervene in any life threatening health situation of a client/patient of any age group. Finally, they should be able to collaborate with the multidisciplinary emergency team and provide support to the family

**HH.7 MODULE DESCRIPTOR: SPECIALIZED HUMAN ANATOMY AND PHYSIOLOGY**

<b>Module title:</b>	<b>Specialized Human Anatomy and Physiology</b>
<b>Code:</b>	NHAP4811
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	4 periods per week for 14 Weeks
<b>Credits:</b>	16
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of two tests/assignments. [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

**Module Description:**

This module aims at equipping the post graduate nursing student with knowledge and skills to recognize anatomical and physiological changes that could occur in patients with life threatening disorders. The focus is on the cardiovascular, respiratory, renal, nervous and endocrine systems

**HH.8 MODULE DESCRIPTOR: EMERGENCY MEDICINE**

<b>Module title:</b>	<b>Emergency Medicine</b>
<b>Code:</b>	NNEM 4812
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	2 periods per week for 14 Weeks
<b>Credits:</b>	8
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of two tests/assignments. [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

**Module description:**

This module describes aspects of medicines utilized to alter or normalize the body during life threatening situations or medicines that require intensive nursing care once administered.

**HH.9 MODULE DESCRIPTOR: PHYSICAL ASSESSMENT AND WOUND CARE**

<b>Module title:</b>	<b>Physical Assessment and Wound Care</b>
<b>Code:</b>	NPAW 4882
<b>NQF Level:</b>	8
<b>Contact Hours:</b>	3 periods per week for 14 Weeks
<b>Credits:</b>	12
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment 50%: A minimum of two tests/assignments/case presentations. [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper] & 1 practical examination

**Module Description:**

This module aims at equipping the post graduate nursing student with skills to conduct a assessment and a critically ill patient. This assessment will consists of a primary and secondary survey, an analysis of ECG manifestations, laboratory results, imaging findings and an assessment of the skin integrity and wounds

## II. MASTER OF NURSING SCIENCE

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<b>II.1 MODULE DESCRIPTOR:</b>	<b>Master Thesis</b>
<b>Code:</b>	NMNS5900
<b>NQF level:</b>	9
<b>Contact hours:</b>	6 tutorials per year Individual contact sessions with student as need arises
<b>Credits:</b>	240

**Assessment:** Thesis 100%

**Module description:** The Masters degree by research only is aimed at developing a student's understanding and disposition to be able to undertake research. The student will be provided with skills to identify and formulate a problem, purpose and objectives. Also collecting, analyzing, organizing and critically evaluating information and communicating effectively usual skills in the modes of written/oral persuasion.

## JJ. MASTER IN PUBLIC HEALTH

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### JJ.1 MODULE DESCRIPTOR: RESEARCH METHODOLOGY IN PUBLIC HEALTH

FIRST YEAR:

<b>Module title:</b>	<b>Research Methodology in Public Health</b>
<b>Code:</b>	NRMP5980
<b>NQF level:</b>	9
<b>Contact hours:</b>	2 hours per week × 28 weeks
<b>Credits:</b>	24

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]

Examination 50% : [1 x 3hr paper]

**Module description (content):** This module prepares the student to conduct research as an individual or a member of a research team. The ultimate goal is to prepare students to provide evidence-based practice that promote quality outcomes for the population, the health care providers and the health system. Furthermore, to use research findings in promoting and understanding health and illness and to implement effective interventions to promote health.

### JJ.2 MODULE DESCRIPTOR: HISTORY, ETHICS, PHILOSOPHY AND THEORETICAL FRAMEWORK OF PUBLIC

**Module title:** History, Ethics, Philosophy and Theoretical Framework of Public Health Practice

<b>Code:</b>	NHPH5980
<b>NQF LEVEL:</b>	9
<b>Contact hours:</b>	2 hours per week × 28 weeks
<b>Credits:</b>	24

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]; Examination 50%: [1 x 3hr paper]

**Module description:**

This module aims to equip students with historical and philosophical knowledge and skills of public health, ethics in public health, the application of Primary Health Care strategy and health promotion behavior.

### JJ.3 MODULE DESCRIPTOR: DEMOGRAPHY AND EPIDEMIOLOGY IN PUBLIC HEALTH

<b>Module title:</b>	<b>Demography and Epidemiology in Public Health</b>
<b>Code:</b>	NDEP5980
<b>NQF level:</b>	9
<b>Contact hours:</b>	2 hours per week × 28 weeks
<b>Credits:</b>	24

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]

Examination 50% : [1 x 3hr paper]

**Module description:**

This module aims to equip students with knowledge and skills to analyze and interpret and apply demographic, bio-statistical and epidemiological data as well as health management information systems in public health planning and management



#### JJ.4 MODULE DESCRIPTOR: DISEASE CONTROL IN PUBLIC HEALTH

<b>Module title:</b>	<b>Disease Control in Public Health</b>
<b>Code:</b>	NDCP5980
<b>NQF level:</b>	9
<b>Contact hours:</b>	2 hours per week × 28 weeks
<b>Credits:</b>	24

**Module assessment:**

Continuous assessment 50% A minimum of four tests/assignments [General rule 7.21.3(2)]  
Examination 50% [1 x 3hr paper]

**Module description:**

This module aims to deepen the understanding of principles and strategies in disease control and equips students with the skills to successfully establish, strengthen or to systematically review disease control, building on basic knowledge of major diseases and specific experience in the control of diseases, and quantitative and qualitative research methods, programmes:

Legislation and health  
Health system of Namibia  
**PAPER 2:** 3 hours

#### JJ.5 MODULE DESCRIPTOR: MONITORING AND EVALUATION IN PUBLIC HEALTH

<b>Module title:</b>	<b>Monitoring and Evaluation in Public Health</b>
<b>Code:</b>	NMEP5982
<b>NQF level:</b>	9
<b>Contact hours:</b>	2 hours × 14 weeks
<b>Credits:</b>	12

**Module assessment:**

Continuous assessment 50% : A minimum of two tests [General rule 7.21.3(2)]  
Examination 50% : [1 x 3hr paper]

**Module description:**

This module aims to equip students with knowledge and skills of monitoring and evaluation of public health programmes.

#### JJ.6 MODULE DESCRIPTOR: HEALTH SERVICES PLANNING AND MANAGEMENT IN PUBLIC HEALTH

<b>Module title:</b>	<b>Health Services Planning and Management in Public Health</b>
<b>Code:</b>	NHPM5980
<b>NQF level:</b>	9
<b>Contact hours:</b>	2 hours per week × 28 weeks
<b>Credits:</b>	24

**Module assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

**Module description:**

This module aims to develop students' understanding, knowledge and skills related to policy development and management, health care delivery, human resources management, strategic management and leadership in public health

**Policy for change/change management**

### SECOND YEAR

#### JJ.7 MODULE DESCRIPTOR: RESEARCH PROJECT/THESIS

<b>Module title:</b>	<b>Research Project/Thesis</b>
<b>Code:</b>	NRPT5900
<b>NQF level:</b>	9
<b>Contact hours:</b>	Accompaniment by supervisor as set out in Student Guide: Post Graduate Studies.
<b>Credits:</b>	120

**Module assessment:**

Thesis 100%

**Module description:**

Undertake actual field work analysis data and write up research findings.

### KK. DOCTORAL OF NURSING SCIENCE

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## **KK.1 MODULE DESCRIPTOR: DOCTOR OF NURSING**

<b>Module title:</b>	<b>Doctor of Nursing</b>
<b>Code:</b>	NDND6000
<b>NQF level:</b>	10
<b>Contact hours:</b>	2hrs per student per week
<b>Credits:</b>	360

### **Module assessment:**

Dissertation is internally and externally examined.  
Viva-voce examination.

### **Module description:**

The course is done by research only where knowledge, theory and research methods are applied creatively to complex practical, theoretical and epistemological problems. By undertaking advanced research, this expands the knowledge of the field and is judged by research publications. An adequate body of advanced information relating to the selected field is independently retrieved and processed. A report should be compiled to communicate the whole research process.

## **LL. POST GRADUATE CERTIFICATE IN NURSING ADVANCED SKILLS**

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### **LL.1 MODULE DESCRIPTOR: ADVANCED NURSING SKILLS**

<b>Module title:</b>	<b>Advanced Nursing Skills</b>
<b>Code:</b>	NANS4760
<b>NQA Level:</b>	7
<b>Contact hours:</b>	45 hrs over one year (accompanied learning) Nine (9) contact sessions of 5 hrs
<b>Credits:</b>	16
<b>Prerequisite:</b>	none

### **Module assessment:**

Continuous assessment: 50% . A minimum of four tests/assignments/case presentations [general rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

### **Module description**

Advanced nursing skills is a certificate module aimed at enhancing advanced skills for registered nurses. These skills focus on ecg's selected laboratory results, wound care and imaging

### **LL.2 MODULE DESCRIPTOR: CLINICAL ATTACHMENT IN ADVANCED NURSING SKILLS**

<b>Module title:</b>	<b>Clinical Attachment in Advanced Nursing Skills</b>
<b>Code:</b>	NCAN4780
<b>NQA Level:</b>	7
<b>Contact hours:</b>	3hr x 28 weeks
<b>Credits:</b>	24
<b>Prerequisite:</b>	none

### **Module assessment:**

Continuous assessment: 50% a minimum of four assignments/case presentations [general rule 7.21.3(2)] practical examination 50%:

### **Module description**

The practical attachment to advanced nursing skills aims at the mastering skills required for the theoretical module. These skills focus on ecg's selected laboratory results, physical assessment, wound care and imaging

## **MM. POST GRADUATE CERTIFICATE PHARMACOTHERAPY**

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### **MM.1 MODULE DESCRIPTOR: PHARMACOTHERAPY**

<b>Module Title:</b>	<b>Pharmacotherapy</b>
<b>Code:</b>	NPCT 4760
<b>NQF:</b>	7
<b>Contact hours:</b>	1 day per month self directed and accompanying learning (4 hours per month for theory (pharmacology) and 2 hours per month for practical) for 10 months
<b>Credits:</b>	16
<b>Pre-requisite:</b>	None

### **Module Assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

### **Module Description:**

In order to comply with the provisions of the Medicines and related Substances Control Act of 1965 (Act 101 of 1965) and the recently adopted Integrated Management of Adult and Adolescent Illness program, registered nurses and midwives whose practice requires them to acquire, keep, prescribed and issue

medicines must produce proof of having followed an approved module of study in pharmacotherapy, examination, diagnosis and treatment and passed an examination on this.

## **MM.2 MODULE DESCRIPTOR: CLINICAL ATTACHMENT IN PHARMACOTHERAPY**

<b>Module Title:</b>	<b>Clinical Attachment in Pharmacotherapy</b>
<b>Code:</b>	NCAP 4780
<b>NQF:</b>	7
<b>Contact hours:</b>	3 hours X 28 Weeks practical
<b>Credits:</b>	24
<b>Pre-requisite:</b>	None

### **Module Assessment:**

Continuous assessment 50%: A minimum of four case studies/assignments [General rule 7.21.3(2)]  
1 practical examination

### **Module Description:**

This module aims at strengthening the skills in assessment, diagnosing and treatment.

**NEW PROGRAMMES 2009**

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## **SPECIAL FACULTY REQUIREMENTS**

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### **General**

1. Nursing and Radiography modules consist of compulsory clinical practice which counts for 50% of the practical modules
2. Clinical placement in training hospitals will commence from the first year of study.
3. The award of the degree is subject to the satisfactory completion of the prescribed practical hours and the satisfactory completion of practical registers
4. All clinical documents are regarded as legal documents and should bear the signature of the student and the registered nurse and the radiographer who teach the student
5. The practical hours for the year should be completed before registering for the next academic year.
6. Logbook/workbook and or registers should be completed as per instruction.
7. All signatures should be authentic and legible. Fraudulent signatures can lead to immediate cancellation of the student's programme.
8. All students need to adhere to the specific rules and regulations of the Ministry of Health and Social Services during their allocation in clinical areas.
9. Students should adhere to the dress code as agreed upon with the Faculty/ Ministry of Health and Social Services
10. A registration fee of N\$200 is payable to the applicable health professions council. Students will be informed accordingly after registration with the Faculty.
11. The use of cell phones during practicals is not allowed .This is considered highly unethical and interfering in the caring of a patient.

### **First Year Nursing Students**

The first year nursing students should obtain the following equipment after registration:

Watch with a second hand

Thermometer

Stethoscope

Scissor

All the above except the watch is available at the faculty

#### **Dress code:**

Blue trouser/skirt (no jeans)

White trousers for men allowed

White jacket

Flat navy /black shoes (no high heels/sandals or Chinese slippers)

Epaulettes available within the Faculty

Please note: students should buy their own uniform & shoes

# GENERAL REGULATIONS PERTAINING TO UNDERGRADUATE STUDIES IN THE SCHOOL OF NURSING AND PUBLIC HEALTH

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## 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 module work. Clinical allocations are thus a critical Component of the module 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 module.
- 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)

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### 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 School 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 School:**

A student will not be re-admitted into the school 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 MODULE 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	NQF Level	Module	Code	Hrs	Credits	NQF Level
General Nursing Science I	NNGN3510	2+16h clinical attachment	16	5	General Nursing Science I	NNGN3510	2+16h clinical attachment	16	5
Basic Human Anatomy	NNAB3559	4	16	5	Applied Human Anatomy	NNAB3552	4	16	5
Introduction to Psychology I	HPSG3511	4	16	5	Social Psychology	HPSG3532	4	16	5
Health Care Dynamics	NNHD 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
<b>TOTAL</b>		<b>18</b>	<b>80</b>				<b>16</b>	<b>72</b>	
Semester 1 includes UNAM core and faculty core modules <b>TOTAL CREDITS YEAR : 152</b>									

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	NNGN3680	2+8h clinical attachment	12	6	General Nursing Science II	NNGN3680	2+8h clinical attachment	12	6
Basic Human Physiology	NNAB 3639	4	16	6	Applied Human Physiology	NNAB 3632	4	16	6
Community Health Nursing Science I	NNCH 3680	2+8 clinical attachment	12	6	Community Health Nursing Science I	NNCH 3680	2+8 clinical attachment	12	6
Midwifery Science I	NNMS 3680	2+8 clinical attachment	12	6	Midwifery Science I	NNMS 3680	2+8 clinical attachment	12	6
Foundations of Sociology	NNFS3511	4	16	5	Basics of Sociology: paradigms and methods	NNBS 3532	4	16	5
<b>TOTAL</b>		<b>14</b>	<b>68</b>				<b>18</b>	<b>68</b>	
<b>TOTAL CREDITS YEAR 2 : 136</b>									

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	NNGN3780	2+8 clinical attachment	12	7	General Nursing Science III	NNGN 3780	2+8 clinical attachment	12	7
Community Health Nursing Science II	NNCH 3780	2+8 clinical attachment	12	7	Community Health Nursing Science II	NNCH 3780	2+8 clinical attachment	12	7
Microbiology	NNAB3659	4	16	6	Pharma-cotherapy	NNAB3652	4	16	6
Midwifery Science II	MNMS3780	2+8 clinical attachment	12	7	Midwifery Science II	NNMS3780	2+8 clinical attachment	12	7
Social Problems OR Organisational /Personnel Psychology	NNSP3671	4	16	6	Sociology of Development	NNSD3632	4	16	6
	HPSI3631	4	16	6					
<b>TOTAL</b>		<b>14</b>	<b>68</b>				<b>14</b>	<b>68</b>	

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	NGN3880	2+8 clinical attachment	12	8	General Nursing Science IV	NNGN3880	2+8 clinical attachment	12	8
Community Health Nursing Science III	NNCH 3880	2+8 clinical attachment	12	8	Community Health Nursing Science III	NNCH 3880	2+8 clinical attachment	12	8
Mental Health Nursing	NNMH3880	2+8 clinical attachment	12	8	Mental Health Nursing	NNMH3880	2+8 clinical attachment	12	8
Health Research methods	NNHR3820	2	8	8	Health Research methods	NNHR3820	2	8	8
					Research paper in Health	NNHR3812	4	16	8
Ethos and Professional Practice	NNEP3820	2	8	8	Ethos and Professional Practice	NNEP3820	2	8	8
Trauma and Emergency Care	NNTE3829	2	8	8					
<b>TOTAL</b>		<b>12</b>	<b>60</b>				<b>14</b>	<b>68</b>	
<b>TOTAL CREDITS YERAR 4: 128</b>									

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

### A.12. MODULE / CODES AND RESTRICTION ON MODULES

MODULES	CODE	PRE-REQUISITE	CO- REQUISITE
<b>Year 1</b>			
Applied Human Anatomy	NNAB 3552		NNAB3559
English Comm. Study Skills	ULCE3419		
<b>Year 2</b>			
General nursing science	NNGN3680	NNGN3510/MNAB3559	
Basic Human Physiology	NNAB3639	NNAB3552	
Applied Human Physiology	NNAB3632		NNAB3639
Midwifery Science	NNMS3680	NNAB3559/3552/NNGN3510	
<b>YEAR 3</b>			
General nursing science	NNGN3780	NNAB3632/ NNGN3680	
Community Health Nursing	NNCH3780	NNCH3680	
Microbiology	NNAB3659	NNAB3632	
Pharmacotherapy	NNAB3652		NNAB3659
Midwifery Science	NNMS3780	NNSM3680	
<b>YEAR 4</b>			
General Nursing Science	NNGN3880	NNGN3780	
Ethos and Prof Practice	NEP3820	NNGN3780	
Community Health Nursing	NNCH3880	NNGN 3780	
Mental Health Nursing	NNMH3880	NNGN3780	
Trauma & Emer.Care	NNTE3829	NNGN3780	

## AA. MODULE DESCRIPTORS (SYLLABI)

### YEAR 1

#### AA.1 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 1

Module title:	General Nursing Science 1
Code:	NNGN 3510
NQF level:	5
Contact hours:	Theory: 2+ 16hrs clinical attachment per week x 28 weeks

Practical: 20 Hours per week  
**Credits:** 32  
**Pre-requisite:** None

**Module assessment:**

Continuous assessment: 50%; Examination: 50%

Examination: Theory: [1 x 3hr paper] at the end of the year

Practical: Objective structural clinical evaluation (OSCE) and problem solving. The weight between the theory and the clinical examination is 50/50.

**Module description:**

This module 1 introduces 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**

<b>Module title:</b>	<b>Basic Human Anatomy</b>
<b>Code:</b>	NNAB 3559
<b>NQF Level:</b>	5
<b>Contact Hours:</b>	4 periods per week for 14 Weeks
<b>Credits:</b>	16
<b>Pre-requisite:</b>	None

**Module Assessment:**

Continuous assessment: 50%

Examination: 50%; [1 x 3hr paper]

**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 integumentary system. The musculo-skeletal system and the articulations.

**AA.3 MODULE DESCRIPTOR: APPLIED HUMAN ANATOMY**

<b>Module title:</b>	<b>Applied Human Anatomy</b>
<b>Code:</b>	NNAB 3552
<b>NQF Level:</b>	5
<b>Contact Hours:</b>	4 periods per week for 14 Weeks
<b>Credits:</b>	16
<b>Co-requisite:</b>	(MNAB 3559)

**Module Assessment:**

Continuous assessment: 50%

Examination: 50%; [1 x 3hr paper]

**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**

<b>Module title:</b>	<b>Introduction to Psychology</b>
<b>Code:</b>	HPSG 3511
<b>NQF level:</b>	5
<b>Contact hours:</b>	4hrs p/week x 14 weeks tutorial per semester
<b>Credits:</b>	16
<b>Pre requisites:</b>	None

**Module assessment:**

Continuous assessments: 60%

Examination: 40% [1 x 3hr paper]

**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**

<b>Module title:</b>	<b>Social Psychology</b>
<b>Code:</b>	HPSG 3532
<b>NQF level:</b>	5
<b>Contact hours:</b>	4hrs p/w for 14 weeks
<b>Credits:</b>	16
<b>Prerequisites:</b>	None

**Module Assessment:**

Continuous assessment: 60%  
Examination: 40% [1 x 3hr paper]

**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**

<b>Module title:</b>	<b>Health Care Dynamics</b>
<b>Code:</b>	NNHD 3421
<b>NQF Level:</b>	4
<b>Contact hours:</b>	2hrs per week x 14 weeks
<b>Credits:</b>	8
<b>Pre-requisite:</b>	None

**Module assessment:**

Continuous assessment: 50%  
Examination: 50% [1 x 2hr paper]

**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**

<b>Module title:</b>	<b>Computer Literacy</b>
<b>Code:</b>	UCLC 3409
<b>NQF level:</b>	4
<b>Contact hours:</b>	2 periods per week for 14 weeks
<b>Credits:</b>	8
<b>Prerequisites:</b>	None

**Module assessment:**

Continuous Assessment 100%  
Contribution to final Mark:  
2 Practical Tests 50%  
2 Theory Tests 50%

**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

<b>Code:</b>	UCSI 3429
<b>NQF:</b>	4
<b>Contact Hours:</b>	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)
<b>Credits:</b>	8
<b>Prerequisite:</b>	None

**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.

### Module Description:

**Social Ethics:** The Unit raises awareness on the need for a personal, national and global ethics. The main objectives of the MODULE 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 behaviour 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

<b>Module title:</b>	English Communication and Study Skills
<b>Code:</b>	ULCE 3419
<b>NQF Level:</b>	4
<b>National professional standard competencies:</b>	N/A
<b>Contact hours:</b>	4 hours per week for 14 weeks
<b>Credits:</b>	16
<b>Pre-requisites:</b>	None

### Module Assessment:

Continuous assessment (60%)  
2 tests (reading and writing)  
2 reading assignments  
1 oral presentation  
Examination (40%): [1 x 3hr paper]

**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

<b>Module title:</b>	English for academic Purposes
<b>Code:</b>	ULEA 3419
<b>NQF level:</b>	4
<b>Contact hours:</b>	2 periods per week x 14 weeks
<b>Credits:</b>	8
<b>Pre-requisites/co requisites:</b>	ULCE 3419

### Module assessment:

Continuous assessment 60%  
Examination: 40%

### Module description:

The MODULE 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 Module 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 module therefore focuses on the academic skills, which they need throughout their academic career and beyond.

## YEAR 2

### AA.11 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE II

<b>Module Title:</b>	<b>General Nursing Science module II</b>
<b>Code:</b>	NNGN 3680
<b>NQF level:</b>	6
<b>Contact Hours:</b>	2+8hrs clinical attachment
<b>Credits:</b>	24
<b>Prerequisites:</b>	NNGN3510 and NNAB3559/3552

#### Module assessment:

Continuous assessment: 50%

Examination: 50% [2 x 3hr papers]

#### 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 I

<b>Module Title:</b>	<b>Community Health Nursing Science I</b>
<b>Code:</b>	NNCH 3680
<b>NQF level:</b>	6
<b>Contact hours:</b>	2 + 8 hours clinical attachment per week x 28 weeks
<b>Credits:</b>	24
<b>Prerequisite:</b>	None

#### Module assessment:

Continuous assessment – 50% (5 tests per year)

Examination – 50% [1 x 3hr paper]

#### Module Description:

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

<b>Module Title:</b>	<b>Basic Human Physiology</b>
<b>CODE:</b>	NNAB 3639
<b>NQF Level:</b>	6
<b>Contact hours:</b>	4 periods per week x 14weeks
<b>Credits:</b>	16
<b>Pre-requisites:</b>	MNAB3559 /NNAB3552

#### Module assessment:

Continuous assessment: 50%

Examination: 50%

#### 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 integumentary system.

### AA.14 MODULE DESCRIPTOR: APPLIED HUMAN PHYSIOLOGY

<b>Module Title:</b>	<b>Applied Physiology</b>
<b>CODE:</b>	NNAB 3632
<b>NQA Level:</b>	6
<b>Contact hours:</b>	4 periods per week x 14 weeks
<b>Credits:</b>	16
<b>Pre-requisite:</b>	NNAB 3639

#### Module Assessments:

Continuous assessment: 50%  
Examination: 50%

**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 I**

<b>Module title:</b>	<b>Midwifery Science I</b>
<b>Code:</b>	NNMS 3680
<b>NQF level:</b>	6
<b>Contact hours:</b>	Theory: 2 plus 8 hours practical for 28 weeks Clinical practice & simulations: 20 hours per week
<b>Credits:</b>	24
<b>Prerequisites:</b>	MNAB 3559/3552 /NNGN3510

**Module assessment:**

Continuous assessment: 50% (minimum 4 tests, assignments, case studies, 1-2  
Examination: 50% [2 x 3hr papers]

**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**

<b>Module Title:</b>	<b>Foundation of Sociology</b>
<b>Code:</b>	NNFS 3511
<b>NQF level:</b>	5
<b>Contact hours:</b>	4 lectures per week / 14 weeks
<b>Credits:</b>	16
<b>Prerequisites:</b>	None

**Module assessment:**

Continuous assessment: 60%  
Examination 40%.

**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 MODULE covers in particular the field of sociology and medical sociology

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

<b>Module title:</b>	<b>Basic Sociology: Paradigms and Methods</b>
<b>Code:</b>	NNBS 3532
<b>NQF level:</b>	5
<b>Contact hours:</b>	4 lectures per week / 14 weeks
<b>Prerequisites:</b>	None
<b>Credits:</b>	16

**Module assessment:**

Continuous assessment: 60%,  
Examination: 40%

**Module description:**

The module mostly utilizes lecture and tutorial format. It resumes the methodological training introduced into the sociology curriculum with the 1<sup>st</sup> year module "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 MODULE 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 module at upper intermediate level, in the following year of studies.

**YEAR 3**

**AA.18 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE MODULE III**

<b>Module title:</b>	<b>General Nursing Science Module III</b>
<b>Code:</b>	NNGN 3780

<b>NQF level:</b>	7
<b>Contact hours:</b>	2 + 8 hours clinical attachment per week x 28 weeks
<b>Credits:</b>	24
<b>Prerequisites:</b>	MNGN3610 MNAB3612

**Module assessment:**

Continuous assessment: 50%  
Examination: 50% [2 x 3hr papers]

**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 II**

<b>Module Title:</b>	<b>Community Health Nursing Science II</b>
<b>Subject code:</b>	NNCH 3780
<b>NQF level:</b>	7
<b>Contact hours:</b>	2 plus 8 practical hours x 28 weeks
<b>Credits:</b>	24
<b>Prerequisites:</b>	NNCH3680

**Module assessment:**

Continuous assessment – 50%  
Examination – 50% [1 x 3hr paper]

**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**

<b>Module Title:</b>	<b>Microbiology</b>
<b>Code:</b>	NNAB 3659
<b>NQF level:</b>	7
<b>Contact hours:</b>	4 periods per week x 14 Weeks
<b>Credits:</b>	16
<b>Pre-requisite:</b>	MNAB 3632

**Module Assessment:**

Continuous assessment: 50%  
Examination: 50% [1 x 3hr paper]

**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**

<b>Module Title:</b>	<b>Pharmacotherapy</b>
<b>Code:</b>	NNAB 3652
<b>NQF Level:</b>	7
<b>Contact Hours:</b>	4 periods per week x 14 weeks
<b>Credits:</b>	16
<b>Pre-requisite:</b>	MNAB 3632

**Module Assessment:**

Continuous assessment: 50%  
Examination: 50% [1 x 3hr paper]

**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: SOCIAL PROBLEMS**

<b>Module title:</b>	Social Problems
<b>Code:</b>	NNSP3671
<b>NQF level:</b>	6
<b>Contact hours:</b>	4 lectures per week / 14 weeks
<b>Credits:</b>	16
<b>Prerequisites:</b>	None

**Module assessment:**

Continuous assessment: 60%,  
Examination: 40%

**Module description:**

The MODULE mostly utilizes lecture and tutorial format. It resumes the methodological training introduced into the sociology curriculum with the 1<sup>st</sup> year MODULE "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 MODULE 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 MODULE at upper intermediate level, in the following year of studies.

**AA.23 MODULE DESCRIPTOR: SOCIOLOGY OF DEVELOPMENT**

<b>Module title:</b>	Sociology of development
<b>Code:</b>	NNSD3632
<b>NQF level:</b>	6
<b>Contact hours:</b>	4 lectures per week for 14 weeks
<b>Credits:</b>	16
<b>Prerequisites:</b>	HSOC 3531/3532

**Module assessment:**

Continuous assessment: 60%:  
Examination: 40%

**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.24 MODULE DESCRIPTOR: ORGANISATIONAL/PERSONNEL PSYCHOLOGY**

<b>Module title:</b>	Organisational/Personnel
<b>Code:</b>	HPSI 3631
<b>NQF level:</b>	6
<b>Contact hours:</b>	4 lecture periods for 14 weeks
<b>Credits:</b>	16
<b>Prerequisites:</b>	None

**Module assessment:**

Continuous assessment: 60%  
Examination: 40% [1 x 3hr paper]

**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.25 MODULE DESCRIPTOR: MIDWIFERY SCIENCE II**

<b>Module title:</b>	Midwifery Science II
<b>Code:</b>	NNMS 3780
<b>NQF level:</b>	7
<b>Contact hours:</b>	2 + 8 hours clinical attachment per week x 28 weeks



**Credits:** 24  
**Prerequisites:** NMS 3680

**Module assessment:**  
Continuous assessment: 50%  
Examinations: 50% [2 x 3hr papers]

**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**

**AA.26 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE IV**

<b>Module title:</b>	<b>General Nursing Science IV</b>
<b>Subject code:</b>	NNGN 3880
<b>NQF level:</b>	8
<b>Contact hours:</b>	2 + 8 hours clinical attachment per week x 28 weeks
<b>Credits:</b>	24
<b>Prerequisites:</b>	NNGN3780

**Module assessment:**  
Continuous assessment: 50%  
Examination: 50% [2 x 3hr papers]

**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.27 MODULE DESCRIPTOR: COMMUNITY NURSING SCIENCE III**

<b>Module Title:</b>	<b>Community Health Nursing Science</b>
<b>Subject code:</b>	NNCH 3880
<b>NQF Level:</b>	8
<b>Contact hours:</b>	2 + 8 hours clinical attachment per week x 28 weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	NNGN3780

**Module assessment:**  
Continuous assessment: 50%  
Examination – 50% [1 x 3hr paper]

**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.28 MODULE DESCRIPTOR: MENTAL HEALTH NURSING**

<b>Module Title:</b>	<b>Mental Health</b>
<b>Subject Code:</b>	NNMH 3880
<b>NQF Level:</b>	8
<b>Total Credits:</b>	24
<b>Pre-requisite:</b>	None
<b>Contact Hours:</b>	2 + 8 hours clinical attachment per week x 28 weeks

**Module assessment:**

Continuous Assessment 50%  
Examination: 50% [1 x 3hr paper]

**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 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.29 MODULE DESCRIPTOR: ETHOS AND PROFESSIONAL PRACTICE**

<b>Module title:</b>	<b>Ethos and Professional Practice</b>
<b>Subject Code:</b>	NNEP 3820
<b>NQF Level:</b>	8
<b>Contact hours:</b>	2 periods x 28 weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	University Prerequisite for registration in fourth year.

**Module assessment:**

Continuous assessment: 50%  
Examination: 50%

**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.30 MODULE DESCRIPTOR: HEALTH RESEARCH METHODS**

<b>Module Title:</b>	<b>Health Research Methods</b>
<b>Subject Code:</b>	NNRM 3820
<b>NQF level:</b>	8
<b>Contact hours:</b>	2 Hours per week x 28 weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	None

**Module assessment:**

Continuous assessment: 50%  
Examination: 50% 1x hour paper

**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.31 MODULE DESCRIPTOR: RESEARCH PAPER IN HEALTH**

<b>Module Title:</b>	<b>Research paper in Health</b>
<b>Subject Code:</b>	NNHR 3812
<b>NQF level:</b>	8
<b>Contact hours:</b>	4 Hours per week x14 weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	None

**Module assessment:**

A final assessment of the health research project (100 %) by two supervisors within the Department of Nursing and the external moderator.

**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.32 MODULE DESCRIPTOR: TRAUMA AND EMERGENCY CARE**

<b>Module title:</b>	<b>Trauma and Emergency Care</b>
<b>Subject code:</b>	NNTE 3829
<b>NQF level:</b>	8

<b>Contact hours:</b>	2 x 14weeks
<b>Credits:</b>	8
<b>Prerequisites:</b>	NNGN3780

**Module assessment:**

Continuous assessment: 50% [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)**

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**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 modules 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 module 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.

**9 modules** (equivalent to 144 credits) out of the 14 modules prescribed for **Year 1**

**6 modules** (equivalent to 96 credits) out of the 10 modules prescribed for **Year 2**

**6 modules** (equivalent to 96 credits) out of the 10 modules 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 module 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 1q**

Semester 1					Semester 2				
Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	Credits	NQF Level
Radiation Technique 1	NRRT 3560	2	8	5	Radiation Technique 1	NRRT3560	2	8	5
Clinical Radiation Technique 1	NRCR 3560	8 hour clinical attachment	4	5	Clinical Radiation Technique 1	NRCR3560	8 hour clinical attachment	4	5
Radiographic Principles Materials & Processing	NRRP 3571	4	16	5	Radiographic Image Characteristics	NRRP3572	4	16	5
Method of patient Care and preparation	NRPC3571	2	8	5	Physics for Radiographers	SPHY 3402	2	8	4
Basic Human Anatomy	NNAB 3559	4	16	5	Applied Human Anatomy	NNAB 3552	4	16	5
Health Care Dynamics	NNHD 3421	2	8	4	History of Radiography, Ethics and Professional Practice	NRHE3572	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
<b>TOTAL</b>		<b>28</b>	<b>84</b>		<b>TOTAL</b>		<b>26</b>	<b>76</b>	
<b>TOTAL CREDITS: 160</b>									
<b>8 hour clinical attachment equals 4 credits</b>									

**YEAR2**

Semester 3					Semester 4				
Module	Code	Hours	Credits	NQF Level	Module	Code	Hours	Credits	NQF Level
Radiation Technique II	NRRT 3670	4	16	6	Radiation Technique II	NRRT3670	4	16	6
Clinical Radiation Technique 2	NRCR 3660	16 hour clinical attachment	8	6	Clinical Radiation Technique 2	NRCR3660	16 hour clinical attachment	8	6
Radiographic Qual. Contr, Qual..Assur.& Modern Tech.Imaging	NRQC 3671	4	16	6					
Basic Human Physiology	NNAB 3639	4	16	6	Applied Human Physiology	NNAB 3632	4	16	6
Principles of Apparatus Construction and Utilization	NRAC 3661	2	8	6	Applied Apparatus Construction and Utilization	NRAC 3662	2	8	6
Radiography Ethics and Prof. Practice	NRHE3571	4	16	5	Patho-physiology	NRPP3662	2	8	6
<b>TOTAL</b>		<b>34</b>	<b>80</b>		<b>TOTAL</b>		<b>28</b>	<b>56</b>	
<b>TOTAL CREDITS: 136</b>									
<b>16 hour clinical attachment equals 8 credits</b>									

**YEAR3**

Semester 5					Semester 6				
Module	Code	Hours	Credits	NQF Levels	Module	Code	Hours	Credits	NQF Levels
Radiation Technique III	NRRT3 760	2	8	7	Radiation Technique III	NRRT 3760	2	8	7
Clinical Radiation Technique 3	NRRCR 3760	8 hour clinical attachment	4	7	Clinical Radiation Technique 3	NRRCR3 760	8 hour clinical attachment	4	7
Radiation Protection	NRPS3770	4	16	6	Radiation Protection	NRPS 3770	4	16	6
Radiobiology	NRRB3770	4	16	7	Radiobiology	NRRB3770	4	16	7
Pharmacology for Radiographers	NRPR3770	4	16	7	Pharmacology for Radiographers	NRPR3770	4	16	7
Radiographic Film Critique	NRFC3760	2	8	7	Radiographic Film Critique	NRFC3760	2	8	7
<b>TOTAL</b>		<b>24</b>	<b>68</b>		<b>TOTAL</b>		<b>24</b>	<b>68</b>	

**YEAR4**

Semester 7					Semester 8				
Module	Code	Hours	Credits	NQF Levels	Module	Code	Hours	Credits	NQF Level
Radiation Technique IV	NRRT 3870	4	16	8	Radiation Technique IV	NRRT 3870	4	16	8
Health Research Methods	NNHR 3820	2	8	8	Health Research Methods	NNHR 3820	2	8	8
Management for Radiographers	NRMR 3810	4	16	8	Management for Radiographers	NRMR 3810	4	16	8
Radiographic Pathology	NRRP 3880	4	12	8	Radiographic Pathology	NRRP 3880	4	12	8
Clinical radiation Technique 4	NRRCR3870	4	16	8	Clinical radiation Technique 4	NRRCR3870	4	16	8
					Research Paper in Health	NNHR 3812	4	16	8
<b>TOTAL</b>		<b>28</b>	<b>68</b>		<b>TOTAL</b>		<b>32</b>	<b>80</b>	
<b>TOTAL CREDITS: 148</b>									

**B.15 MODULE / CODES AND RESTRICTION ON MODULES****YEAR 1**

MODELS	CODES	PRE- REQUISITE	CO-REQUISITE	
Applied Human Anatomy	NNAB3552		NNAB3559	
English for Academic Purposes skills	ULEA3419	ULCE3419		
Radiographic Image Characteristics	NRRP3572		NRRP3571	

**YEAR 2**

Radiation Technique 2	NRRT3670	NRCR3570/NRCR3570		
Clinical Radiation Technique	NRCR3660	NRRT3570 NRCR3560		
Radiographic Quality Control, Quality Assurance and Modern Imaging Technique	NRQC3671	NRRP3572		
Basic Human Physiology	NNAB3639	NNAB3532		
Principles of Apparatus Construction and Utilization	NRAC3661	SPHY3402		

**YEAR 3**

Radiation Technique 3	NRRT3770	NRRT3670 NRCR3660		
Clinical Radiation Technique 3	NRCR3760	NRRT3670 NRCR3660		
Patho Physiology	NRPP3739		NNAB3739	

**YEAR 4**

Radiation Technique4	NRCR3880	NRRT3770 / NRCR3760		
Radiographic Pathology	NRRP3870	NRRT3770/ NRCR3760		
Clinical Radiation Technique4	NRCR3870	NRRT3760 NRCT3760		

**BB. MODULE DESCRIPTION (SYLLABI)****YEAR 1****Semester 1****BB.1 MODULE DESCRIPTOR: RADIATION TECHNIQUE I**

Module title:	Radiographic Technique I
Code:	NRRT3560
NQF level:	5

**Contact hours:** 2 hours per week x 28 weeks  
**Credits:** 16  
**Pre-requisites/co requisites:** None

**Module assessment:**  
Continuous assessment 50% (Minimum 4 tests/assignment)  
Examination assessment 50% [1 x 3hr paper]

**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: CLINICAL RADIATION TECHNIQUE 1**

**Module title:** Clinical Radiation Technique 1  
**Code:** NRCR 3560  
**NQF level:** 5  
**Contact hours:** 8hour clinical attachment per week x 28 weeks  
**Credits:** 8  
**Pre-requisites/co requisites:** Radiation Technique 1(NRRT 3570) & Radiation Technique Clinical Practice 1 (NRCR 3560)

**Module assessment:**  
Continuous assessment 50% (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)

**Module description:**  
This module is design to introduce the student to the practical experience of the fundamentals of radiographic technique. It develops the necessary skills for the examination of patients and for the producing actual radiographs .

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

**Module title:** Radiographic Principles and Materials  
**Code:** NRRP 3571  
**NQF level:** 5  
**Contact hours:** 4 lectures per week for 14 weeks  
**Credits:** 16  
**Pre-requisites:** None

**Module assessment:**  
Continues assessment 50% (Minimum 2 tests and 1 assignment)  
Examination 50 %: [1 x 2hr paper]

**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: METHODS OF PATIENT CARE AND PREPARATION**

**Module title:** Methods of Patient Care and Preparation  
**Code:** NRPC3571  
**NQF level:** 5  
**Contact hours:** 2 hour per week x 14 weeks  
**Credits:** 8  
**Pre-requisites/co requisites:** None

**Module assessment:**  
Continuous assessment 50% (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 x 3hr paper]

**Module description (content):**  
This module 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.5 MODULE DESCRIPTOR: BASIC HUMAN ANATOMY**

**Module title:** Basic Human Anatomy  
**Code:** NNAB 3559  
**NQF Level:** 5



**Contact Hours:** 4 periods per week for 14 Weeks  
**Credits:** 16  
**Pre-requisite:** None

**Module Assessment:**  
Continuous assessment: 50% (Minimum 4 tests/assignment)  
Examination: 50% [1 x 3hr paper]

**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.6 MODULE DESCRIPTOR: HEALTH CARE DYNAMICS**

**Module title:** Health Care Dynamics  
**Code:** NNHD 3421  
**NQF Level:** 4  
**Contact hours:** 2 per week x 14 weeks  
**Credits:** 8  
**Pre-requisite:** None

**Module assessment:**  
Continuous assessment: 50% (Minimum 2 tests)  
Examination: 50% [1 x 2hr paper]

**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.7 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  
**Prerequisite:** None

**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.

**Module Description:**  
**Social Ethics:** The module raises awareness on the need for a personal, national and global ethics. The main objectives of the MODULE 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 behaviour 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.8 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  
**Prerequisites:** None

**Module assessment:**  
Continuous Assessment 2 Practical Tests 50% and 2 Theory Tests 50%

**Module description:**

This is a full MODULE 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 keyCouncil. 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.9 MODULE DESCRIPTOR: ENGLISH COMMUNICATION AND STUDY SKILLS**

<b>Module title:</b>	English Communication and Study Skills
<b>Code:</b>	ULCE 3419
<b>NQF Level:</b>	4
<b>Contact hours:</b>	4 hours per week for 14 weeks
<b>Credits:</b>	16
<b>Pre-requisites:</b>	C symbol in English at NSSC (O) or equivalent. or ULEG2410

**Module Assessment:**

Continuous assessment (60%)  
 2 tests (reading and writing)  
 2 reading assignments  
 1 oral presentation  
 Examination (40%): [1 x 3hr paper]

**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.10 MODULE DESCRIPTOR: RADIOGRAPHIC IMAGE CHARACTERISTICS**

<b>Module title:</b>	Radiographic Image Characteristics
<b>Code:</b>	NRRP 3572
<b>NQF level:</b>	5
<b>Contact hours:</b>	4 lectures per week for 14 weeks
<b>Credits:</b>	16
<b>Co-requisites:</b>	Radiographic Principles and Materials (NRR 3571)

**Module assessment:**

Continuous assessment 50% (Minimum 2 tests and 1 assignment)  
 Examination 50 %:[1 x 2hr paper]

**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 module will compound the concepts of radiography imaging to the student. Practical work in the x-ray department will form part of the module.

### BB.11 MODULE DESCRIPTOR: PHYSICS FOR RADIOGRAPHERS

<b>Module Title:</b>	Physics for Radiographers
<b>Code:</b>	SPHY3402
<b>NQF Level:</b>	4
<b>Contact Hours:</b>	28
<b>Credits:</b>	8
<b>Pre-requisites:</b>	None

#### Module assessment:

Continuous assessment 50%, one 2 hour exam 50%. Continuous assessment is based on class tests, assignments and minimum 7 practical sessions

#### 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 MODULE is a pre-requisite for a module on apparatus construction, offered by the Faculty of Medical and Health Sciences. The module 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: APPLIED HUMAN ANATOMY

<b>Module title:</b>	Applied Human Anatomy
<b>Code:</b>	NNAB3552
<b>NQF Level:</b>	5
<b>Contact hours:</b>	4 periods per week for 14 weeks
<b>Credits:</b>	16
<b>Co-requisite:</b>	Applied Anatomy (MNAB3559)

#### Module assessment:

Continuous assessment: 50% (Minimum 3/assignment)

Examination: 50% [1 x 3hr paper]

#### 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 integumentary system. The musculo-skeletal system and the articulations.

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

<b>Module title:</b>	History of Radiography, Ethics and Professional
<b>Code</b>	NRHE3572
<b>NQF level:</b>	5
<b>Contact hours:</b>	4 lectures per week for 14 weeks
<b>Credits:</b>	16
<b>Pre-requisites:</b>	None

#### Module assessment:

Continuous assessment 50% (Minimum 3 tests/assignment)

Examination 50 %: [1 x 3hr paper]

#### 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

### BB.14 MODULE DESCRIPTOR: ENGLISH FOR ACADEMIC PURPOSES

<b>Module title:</b>	English for Academic Purposes
<b>Code:</b>	ULEA3419
<b>NQF level:</b>	4
<b>Contact hours:</b>	4 periods per week
<b>Credits:</b>	16
<b>Prerequisites:</b>	ULCE 3419 or B in English at NSSC or 4 in English at HIGHER GRADE NSSC

#### 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: 50%: [1 x 2hr paper].

**Module description:** This MODULE 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 MODULE 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.

## YEAR 2

### Semester 3

#### BB.15 MODULE DESCRIPTOR: RADIATION TECHNIQUE II

<b>Module title:</b>	<b>Radiographic Technique II</b>
<b>Code:</b>	NRRT3670
<b>NQF level:</b>	6
<b>Contact hours:</b>	4 hours per week x 28 weeks
<b>Credits:</b>	32
<b>Pre-requisites/co requisites:</b>	Radiographic Technique 1(NRRT 3570) & Radiographic Technique Clinical Practice 1(NRCR 3570)

**Module assessment:**

Continuous assessment 50% (Minimum 4 tests/assignment)  
Examination 50% [1 x 3hr paper]

**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.16 MODULE DESCRIPTOR: CLINICAL RADIATION TECHNIQUE 2

<b>Module title:</b>	<b>Clinical Radiation Technique 2</b>
<b>Code:</b>	NRCR 3660
<b>NQF level:</b>	6
<b>Contact hours:</b>	16 hour clinical attachment per week x 28 weeks
<b>Credits:</b>	8
<b>Pre-requisites/co requisites:</b>	Radiation Technique 1(NRRT 3570) & Radiation Technique Clinical Practice 1 (NRCR 3560)

**Module assessment:**

Continuous assessment 50% (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)

**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: RADIOGRAPHIC QUALITY CONTROL, QUALITY ASSURANCE AND MODERN IMAGING

<b>Module title:</b>	<b>Radiographic Quality Control, Quality Assurance and Modern Imaging</b>
<b>Code:</b>	NRQC3671
<b>NQF:</b>	6
<b>Contact hours:</b>	4 lectures per week for 14 weeks
<b>Credits:</b>	16
<b>Pre-requisites:</b>	Radiographic Processing (NRRP 3572)

**Module assessment:**

Continuous assessment 50% (Minimum of 3 tests/assignments)  
Examination 50 %: [1 x 3hr paper]

**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 module will compound the concepts of radiographic imaging to the student. Practical work in the x-ray department will form part of this module.

#### BB.18 MODULE DESCRIPTOR: BASIC HUMAN PHYSIOLOGY

<b>Module Title:</b>	<b>Basic Human Physiology</b>
<b>Code:</b>	NNAB 3639
<b>NQF Level:</b>	6
<b>Contact hours:</b>	4 periods per week x 14weeks

**Credits:** 16  
**Pre-requisites:** Applied Anatomy (MNAB 3552)

**Module assessment:**

Continuous assessment: 50% (Minimum 3 test/assignment)  
Examination: 50%

**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 integumentary system.

**BB.19 MODULE DESCRIPTOR: PRINCIPLES OF APPARATUS CONSTRUCTION & UTILIZATION**

**Module title:** Principles of Apparatus Construction and Utilization  
**Code:** NRAC 3661  
**NQF level:** 6  
**Contact hours:** 2 lectures per week for 14 weeks  
**Credits:** 8  
**Pre-requisite:** Physics for Radiographers (SPHY 3402)

**Module assessment:**

Continuous assessment 50% (Minimum 3 tests/assignment)  
Examination assessment 50 %: [1 x 3hr paper]

**Module description (content):**

This module 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.

**BB.20 MODULE DESCRIPTOR: RADIOGRAPHY, ETHICS AND PROFESSIONAL PRACTICE**

**Module title:** Radiography, Ethics and Professional Practice  
**Code:** NRHE3571  
**NQF level:** 5  
**Contact hours:** 4 lectures per week for 14 weeks  
**Credits:** 16  
**Pre-requisites:** NRHE3572

**Module assessment:**

Continuous assessment 50% (Minimum 3 tests/assignment)  
Examination 50 %: [1 x 3hr paper]

**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.

**Semester 4**

**BB.21 MODULE DESCRIPTOR: APPLIED HUMAN PHYSIOLOGY**

**Module Title:** Applied Human Physiology  
**Code:** NNAB 3632  
**NQA Level:** 6  
**Contact hours:** 4 periods per week x 14 weeks  
**Credits:** 16  
**Co-requisite:** Introduction to Physiology (NNAB 3639)

**Module Assessments:**

Continuous assessment: 50% (Minimum 3 tests/assignment)  
Examination: 50%

**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.22 MODULE DESCRIPTOR: APPLIED APPARATUS CONSTRUCTION & UTILIZATION

<b>Module title:</b>	Applied Apparatus Construction and Utilization
<b>Code:</b>	NRAC 3662
<b>NQF level:</b>	6
<b>Contact hours:</b>	2 lectures per week for 14 weeks
<b>Credits:</b>	8
<b>Pre-requisite:</b>	Principles of Apparatus Construction & Utilization (NRAC 3661)

### Module assessment:

Continuous assessment 50% (Minimum 3 tests/assignment)  
Examination 50%: [1 x 3hr paper]

### Module description:

This module 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.

## BB.23 MODULE DESCRIPTOR: PATHOPHYSIOLOGY

<b>Module title:</b>	<b>Pathophysiology</b>
<b>Code:</b>	NRPP 3662
<b>NQF Level:</b>	6
<b>Contact Hours:</b>	4 periods per week x 14 Weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	Physiology and biochemistry for health care students (NNAB 3631 & NNAB 3632)
<b>Co-requisite:</b>	Microbiology (NNAB 3739)

### Module Assessment:

Continuous Assessment 50% (Minimum 3 tests/assignment)  
Examination 50% [1 x 3hr paper]

### Module Description:

The aim of this module 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)

## YEAR 3

### Semester 5 & Semester 6

## BB.24 MODULE DESCRIPTOR: RADIATION TECHNIQUE III

<b>Module title:</b>	<b>Radiation Technique III</b>
<b>Code:</b>	NRRT 3770
<b>NQF level:</b>	7
<b>Contact hours:</b>	4 hours per weeks x 28 weeks
<b>Credits:</b>	16
<b>Pre-requisites:</b>	Radiation Technique 2 (NRRT 3670) & Clinical Radiation Technique 2 (NRRCR3660)

### Module assessment:

Continuous assessment 50% (Minimum 4 tests/assignment)  
Examination 50% [1 x 3hr paper]

### 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.25 MODULE DESCRIPTOR: CLINICAL RADIATION TECHNIQUE 3

<b>Module title:</b>	<b>Clinical Radiation Technique 3</b>
<b>Code:</b>	NRRCR 3760
<b>NQF level:</b>	7
<b>Contact hours:</b>	16 hour clinical attachment per week x 28 weeks
<b>Credits:</b>	8
<b>Pre-requisites:</b>	Radiation Technique 2 (NRRT3670) & Clinical Radiation Technique 2 (NRRCR3660)

### Module assessment:

Continuous assessment 50% (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)

### 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.26 MODULE DESCRIPTOR: RADIATION PROTECTION

<b>Module title:</b>	<b>Radiation Protection</b>
<b>Code:</b>	NRPS3770
<b>NQF level:</b>	7
<b>Contact hours:</b>	4 lectures per week for 28 weeks
<b>Credits:</b>	32
<b>Pre-requisites:</b>	None

### Module assessment:

Continuous assessment 50% (Minimum 3 tests/assignment)  
Examination 50 %: [1 x 3hr paper]

### Module description:

This module provides the fundamentals of radiation safety.

## BB.27 MODULE DESCRIPTOR: RADIOBIOLOGY

<b>Module Title:</b>	<b>Radiobiology</b>
<b>Code:</b>	NRRB3770
<b>NQF level:</b>	7
<b>Contact hours:</b>	4 periods per week x 28 Weeks
<b>Credits:</b>	32
<b>Pre-requisites:</b>	None

### Module assessment:

Continuous assessment 50% (Minimum 3 tests/assignment)  
Examination 50 %: [1 x 3hr paper]

**Module description:** The module provides the basic knowledge and understanding of the biologic effects of ionizing radiation

## BB.28 MODULE DESCRIPTOR: PHARMACOLOGY FOR RADIOGRAPHERS

<b>Module Title:</b>	<b>Pharmacology for Radiographers</b>
<b>Code:</b>	NRPR3770
<b>NQF level:</b>	7
<b>Contact hours:</b>	4 periods per week x 28 Weeks
<b>Credits:</b>	32
<b>Pre-requisites:</b>	None

### Module assessment:

Continuous assessment 50% (Minimum 3 tests/assignment)  
Examination 50 %: [1 x 3hr paper]

### Module description:

The module 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.29 MODULE DESCRIPTOR: RADIOGRAPHIC FILM CRITIQUE

<b>Module title:</b>	<b>Radiographic Film Critique</b>
<b>Code:</b>	NRFC3760
<b>NQF level:</b>	7
<b>Contact hours:</b>	2 lectures per week for 28weeks
<b>Credits:</b>	16
<b>Pre-requisites:</b>	None

### Module assessment:

Continuous assessment 50% (Minimum 3 tests/assignment)  
Examination 50 %: [1 x 3hr paper]

### Module description:

This module 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.

## Year 4

### Semester 7

#### BB.30 MODULE DESCRIPTOR: RADIATION TECHNIQUE IV

<b>Module title:</b>	<b>Radiation Technique</b>
<b>Code:</b>	NRRT 3870
<b>NQF level:</b>	8
<b>Contact hours:</b>	4 hours per weeks x 28 weeks
<b>Credits:</b>	32
<b>Pre-requisites:</b>	Radiation Technique 3 (NRRT 3770) & Clinical Radiation Technique 3 (NRCR 3760)

#### Module assessment:

Continuous assessment 50% 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

#### 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

<b>Module title:</b>	<b>Health Research Methods</b>
<b>Subject Code:</b>	NNHR 3820
<b>NQF level:</b>	8
<b>Contact hours:</b>	2 Hours per week x 28 weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	None

#### Module assessment:

Continuous assessment: 50% [a minimum of three tests /assignments]

Examination: 50% [1 x 3hr paper]

#### 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

<b>Module title:</b>	<b>Management for Radiographers</b>
<b>Subject code:</b>	NRMR 3810
<b>NQF level:</b>	8
<b>Contact hours:</b>	4 hours per week x 28 weeks
<b>Credits:</b>	32
<b>Prerequisites:</b>	None

#### Module assessment:

Continuous assessment 50% 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

#### 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

<b>Module title:</b>	<b>Radiographic Pathology</b>
<b>Code:</b>	NRRP 3870
<b>NQF level:</b>	8
<b>Contact hours:</b>	4 lectures per week for 28 weeks
<b>Credits:</b>	32



**Pre-requisites:**

Radiation Technique 3 (NRRT 3770) and Clinical Radiation Technique 3 (NRCR 3760)

**Module assessment:**

Continuous assessment 50% (Minimum 3 tests/assignment)

Examination 50 % [1 x 3hr paper]

**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: CLINICAL RADIATION TECHNIQUE 1V**

<b>Module title:</b>	<b>Clinical Radiation Technique 3</b>
<b>Code:</b>	NRCR 3870
<b>NQF level:</b>	8
<b>Contact hours:</b>	16 hour clinical attachment per week x 28 weeks
<b>Credits:</b>	16
<b>Pre-requisites:</b>	Radiation Technique 3 (NRRT3760) & Clinical Radiation Technique 3(NRCR3760)

**Module assessment:**

Continuous assessment 50% (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)

**Module description:**

This module continuation of clinical practice 1,2,and 3 . The student will begin t o develop independent decision making skills to prepare them for a role of radiographer. The students continues the clinical competency process and should now be able to perform medical imaging techniques without direct supervision from clinical instructors .

**BB.35 MODULE DESCRIPTOR: RESEARCH PAPER IN HEALTH**

<b>Module title:</b>	<b>Research Paper in Health</b>
<b>Code:</b>	NNHR 3812
<b>NQF level:</b>	8
<b>Contact hours:</b>	4 Hours per week x 14 weeks
<b>Credits:</b>	16
<b>Prerequisite:</b>	NNHR3811

**Module assessment:**

A final assessment of the health research project (100%) by the two supervisors within the Department of Radiography and the external moderator

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

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**C.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.

**C.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.

**C.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.

#### **C.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.

#### **C.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 School in terms of human resources, physical facilities and teaching material. The School is positive regarding changes within the infrastructure, which are required for the provision of quality care to the Namibian society.

#### **C.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.

#### **C.7 Assessment**

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

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

#### **C.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.

#### **C.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.

#### **C.10. Academic Advancement Rules**

##### **Re- Registration**

A student will not be re-admitted into the School 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 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 MODULE 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 modules have to be passed before a student can proceed to register for modules 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%.

### C.11. Practical (component B)

The practical learning experience and clinical teaching prescribed in the (b) section of a MODULE 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.

### C.12. Curriculum Framework (Total credits 440)

#### YEAR 1

Semester 1				Semester 2			
Module	Code	Credits	NQF level	Module	Code	Cre dits	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	NNGN 2450	16	4	General nursing 1	NNGN 2450	16	4
Community health 1	NNCH 2450	16	4	Community health 1	NNCH 2450	16	4
Fundamentals of human anatomy and physiology	NNAP 2451	16	4	Applied human anatomy and physiology	NNAP 2452	16	4
				Interpersonal abilities in Nursing	NNIP 2452	8	4
		<b>88</b>				<b>72</b>	
<b>Total credits year 1:</b>		<b>160</b>					

#### YEAR 2

Semester 1				Semester 2			
Module	Code	Credits	NQF level	Module	Code	Cre dits	NQF level
General nursing 2	NNGN 2570	16	5	General nursing 2	NNGN 2570	16	5
Community health 2	NNCH 2570	16	5	Community health 2	NNCH 2570	16	5
Microbiology	NNMB 2571	16	5	Pharmacology	NNPC 2572	16	5
Midwifery science 1	NNMS 2550	16	5	Midwifery science 1	NNMS 2550	16	5
Principles in Wound care	NNWC 2541	8	5	Problem solving and critical thinking skills in Health care	NHPC 2542	8	5
		<b>72</b>				<b>72</b>	
<b>Total credits year 2:</b>		<b>144</b>					

#### YEAR 3

Semester 1				Semester 2			
Module	Code	Credits	NQF level	Module	Code	Cre dits	NQF level
General nursing 3	NNGN 2610	16	6	General nursing 3	NNGN 2710	16	6
Midwifery science 2	NNMS 2650	16	6	Midwifery science 2	NNMS 2650	16	6
Mental health	NNMH 2610	16	6	Mental health	NNMH2610	16	6
Ethos & professional practice	NNEP 2550	16	5	Ethos & professional practice	NNEP 2550	16	5
Emergency Nursing	NNEN 2621	8	6				
		<b>72</b>				<b>64</b>	
<b>Total credits year 3:</b>		<b>136</b>					
<b>Total credits: 440 for the 3years</b>							

## CC. Module Descriptions

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### CC.13 MODULES DESCRIPTOR CONTEMPORARY SOCIAL ISSUES

Year 1

<b>Module Title:</b>	<b>CONTEMPORARY SOCIAL ISSUES</b>
<b>Code</b>	UCSI 3429
<b>NQF level</b>	4
<b>Contact hours</b>	2 lecture periods per week for 14 weeks
<b>Credits</b>	8

#### Assessment

Continuous 40 %

Examination 50% (2-hour paper)

#### 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 MODULE 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 MODULE, 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 behaviour change towards HIV/AIDS.
4. Identify intervention strategies on campus.

##### B. SOCIAL ETHICS

1. Critically discuss the objectives of the MODULE.
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.

### CC.14 MODULE DESCRIPTOR: ENGLISH FOR GENERAL COMMUNICATION

**Module title:** English for General Communication

<b>Code:</b>	ULEG 2410
<b>NQF level:</b>	Level 4
<b>National professional standard competencies:</b>	N/A
<b>Contact hours:</b>	4 hours per week for 28 weeks
<b>Credits:</b>	32
<b>Pre-requisites:</b>	None

**Module Assessment:**

Continuous Assessment (60%):  
 4 reading tests  
 4 writing tests  
 2 oral presentations  
 1 literature worksheet  
 Examination (40%):[1 x 3hr paper]

**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.

**CC.15 MODULE DESCRIPTOR: COMPUTER LITERACY**

<b>Module title:</b>	<b>Computer Literacy</b>
<b>Code</b>	UCLC 3409
<b>NQF level</b>	4
<b>Contact hours</b>	2L = 1PS/week
<b>Credits</b>	8
<b>Pre-requisites</b>	None

**Assessment**

Continuous 60%; examination 40% [1 x 2hr paper]

**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.

**CC.16MODULE DESCRIPTOR: GENERAL NURSING SCIENCE 1**

<b>Module title:</b>	<b>General Nursing Science 1</b>
<b>Code</b>	NNGN 2450
<b>NQF level</b>	4
<b>Contact hours</b>	4/ week x 28 weeks
<b>Credits</b>	32
<b>Pre-requisites</b>	None

**Assessment**

Continuous 50%;  
 Examination 50% [2 x 3hr paper]

**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.

**CC.17 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING SCIENCE1**

<b>Module title:</b>	<b>Community Health Nursing Science1</b>
<b>Code</b>	NNCH 2450
<b>NQF level</b>	4
<b>Contact hours</b>	4/ week
<b>Credits</b>	32
<b>Pre-requisites</b>	None

**Assessment**

Continuous 50%  
Examination 50% [1 x 3hr paper]

#### 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.

### CC.18 MODULE DESCRIPTOR: FUNDAMENTALS OF HUMAN ANATOMY AND PHYSIOLOGY

<b>Module title:</b>	<b>Fundamentals of Human Anatomy and Physiology</b>
<b>Code</b>	NNAP 2451
<b>NQF level</b>	4
<b>Contact hours</b>	4/ week
<b>Credits</b>	16
<b>Pre-requisites</b>	None

#### Assessment

Continuous 50%  
Examination 50% [1 x 3hr paper]

#### 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

### CC.19 MODULE DESCRIPTOR: APPLIED HUMAN ANATOMY AND PHYSIOLOGY

<b>Module title:</b>	<b>Applied human Anatomy and Physiology</b>
<b>Code</b>	NNAP 2452
<b>NQF level</b>	4
<b>Contact hours</b>	4/ week
<b>Credits</b>	16
<b>Pre-requisites</b>	NNAP2451 (Co requisite)

#### Assessment

Continuous 50%  
Examination 50% [1 x 3hr paper]

#### 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

### CC. 20 MODULE DESCRIPTOR: INTERPERSONAL ABILITIES IN HEALTH CARE

<b>Module title:</b>	<b>Interpersonal Abilities in Health Care</b>
<b>Code</b>	NNIP 2422
<b>NQF level</b>	5
<b>Contact hours</b>	2 / week
<b>Credits</b>	8
<b>Pre-requisites</b>	None

#### Assessment

Continuous 50%  
Examination 50% [1 x 2hr paper]

#### 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

### CC.21 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE II

<b>Module title:</b>	<b>General Nursing Science II</b>
<b>Code</b>	NNGN2570

<b>NQF level</b>	5
<b>Contact hours</b>	4/ week
<b>Credits</b>	32
<b>Pre-requisites</b>	NNGN 2450

#### **Assessment**

Continuous 50%  
Examination 50% [2 x 3hr paper]

#### **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.

### **CC.22 MODULE DESCRIPTOR: COMMUNITY HEALTH NURSING SCIENCE II**

<b>Module title:</b>	<b>Community Health Nursing Science</b>
<b>Code</b>	NNCH2570
<b>NQF level</b>	5
<b>Contact hours</b>	4/ week
<b>Credits</b>	32
<b>Pre-requisites</b>	None

#### **Assessment**

Continuous 50%  
Examination 50% [1 x 3hr paper]

#### **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

### **CC.23 MODULE DESCRIPTOR: MICROBIOLOGY**

<b>Module title:</b>	<b>Microbiology</b>
<b>Code</b>	NNMB2571
<b>NQF level</b>	5
<b>Contact hours</b>	4/ week
<b>Credits</b>	16
<b>Pre-requisites</b>	NNAP2452

#### **Assessment**

Continuous 50%  
Examination 50% [1 x 3hr paper]

#### **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.

### **CC.24 MODULE DESCRIPTOR: PHARMACOLOGY**

<b>Module title:</b>	<b>Pharmacology</b>
<b>Code</b>	NNPC2572
<b>NQF level</b>	5
<b>Contact hours</b>	4/ week
<b>Credits</b>	16
<b>Pre-requisites</b>	NNMB2571 (Co requisite)

#### **Assessment**

Continuous 50%  
Examination 50% [1 x 3hr paper]

#### **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.

### **CC.25 MODULE DESCRIPTOR: MIDWIFERY SCIENCE I**

<b>Module title:</b>	<b>Midwifery Science I</b>
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<b>Code</b>	NNMS2550
<b>NQF level</b>	5
<b>Contact hours</b>	4/ week
<b>Credits</b>	32
<b>Pre-requisites</b>	None

#### Assessment

Continuous 50%  
Examination 40% [2 x 3hr paper]

#### 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.

### CC.26 MODULE DESCRIPTOR: BASIC PRINCIPLES OF WOUND CARE

<b>Module title:</b>	Basic Principles of Wound Care
<b>Code</b>	NNWC2541
<b>NQF level</b>	5
<b>Contact hours</b>	2/ week x 14 weeks
<b>Credits</b>	8
<b>Pre-requisites</b>	None

#### Assessment

Continuous 50%  
Examination 50% [1 x 2hr paper] & Case study

#### 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.

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

<b>Module title:</b>	Problem Solving and Critical Thinking Skills in Health Care
<b>Code</b>	NHPC2542
<b>NQF level</b>	5
<b>Contact hours</b>	2 / week
<b>Credits</b>	8
<b>Pre-requisites</b>	None

#### Assessment

Continuous 50%  
Examination 50% [1 x 2hr paper]

#### Module description:

This module introduces 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

### CC.28 MODULE DESCRIPTOR: GENERAL NURSING SCIENCE III

<b>Module title:</b>	General Nursing Science III
<b>Code</b>	NNGN2610
<b>NQF level</b>	6
<b>Contact hours</b>	4/ week
<b>Credits</b>	32
<b>Pre-requisites</b>	MNGN 2570

#### Assessment

Continuous 50%  
Examination 50% [2 x 3hr paper]

#### 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.



### CC.29 MODULE DESCRIPTOR: MIDWIFERY SCIENCE II

<b>Module title:</b>	<b>Midwifery Science II</b>
<b>Code</b>	NNMS2650
<b>NQF level</b>	6
<b>Contact hours</b>	4/ week
<b>Credits</b>	32
<b>Pre-requisites</b>	MNMS 2550

#### Assessment

Continuous 50%  
Examination 50% [2 x 3hr paper]

#### 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.

### CC.30 MODULE DESCRIPTOR: MENTAL HEALTH NURSING SCIENCE

<b>Module title:</b>	<b>Mental Health</b>
<b>Code</b>	MNMH 2610
<b>NQF level</b>	6
<b>Contact hours</b>	4/ week
<b>Credits</b>	32
<b>Pre-requisites</b>	None

#### Assessment

Continuous 50%  
Examination 50% [1 x 3hr paper]

#### 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.

### CC.31 MODULE DESCRIPTOR: ETHOS AND PROFESSIONAL PRACTICE

<b>Module title:</b>	<b>Ethos and Professional Practice</b>
<b>Code</b>	MNEP 2550
<b>NQF level</b>	5
<b>Contact hours</b>	4/week x 28 weeks
<b>Credits</b>	32
<b>Pre-requisites</b>	None

#### Assessment

Continuous 50%;  
Examination 50% [1 x 3hr paper]

#### 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.

### CC.32 MODULE DESCRIPTOR: EMERGENCY NURSING

<b>Module title:</b>	<b>Emergency Nursing</b>
<b>Code</b>	MNEN 2621
<b>NQF level</b>	6
<b>Contact hours</b>	2/ week x 14 weeks
<b>Credits</b>	8
<b>Pre-requisites</b>	None

#### Assessment

Continuous 50%  
Examination 50% (1 x 2 hour problem solving &  
OSCE [Objective structured Clinical examination]

#### 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.

## D. POST GRADUATE CERTIFICATE IN ADVANCED NURSING SKILLS

### D.1 Admission requirements

Bachelors Degree or Comprehensive Diploma in Nursing and Midwifery  
AND

Proof of registration at the Namibian Nursing Council

### D.2 Duration of the study

This is a 3 months certificate (40 credits) offered over 1 academic year on part time.

### D.3 Delivery mode

The module is presented by means of accompanied learning including 45 hours face – to – face per year to allow candidates to attend this module during their off duty times . It is expected that this certificate be offered on Saturday mornings.

#### Certificate in Advanced Nursing Skills [TOTAL CREDITS 40]

Semester 1				Semester 2			
Module	Code	Hrs / week	Credits	Module	Code	Hrs/ week	Credits
Advanced Nursing Skills	NANS4760	45 hrs per year	8	Advanced Nursing Skills	NANS4760	45 hrs per year	8
Clinical attachment in advanced nursing skills	NCAN4780	Self accompanied learning	12	Clinical attachment in advanced nursing skills	NCAN4780	Self accompanied learning	12
<b>Total credits: 40</b>			<b>20</b>				<b>20</b>

## DD. MODULE DESCRIPTOR:

### DD .1 MODULE DESCRIPTOR: ADVANCED NURSING SKILLS

<b>Module Title:</b>	<b>Advanced Nursing Skills</b>
<b>Code:</b>	NANS4760
<b>Nqa Level:</b>	7
<b>Contact Hours:</b>	45 hrs over one year (Accompanied learning) Nine (9) contact sessions of 5 hrs
<b>Credits:</b>	16
<b>Prerequisite:</b>	None

#### Module Assessment:

Continuous assessment: 50%

A minimum of four tests/assignments/case presentations [General rule 7.21.3(2)]

Examination 50%: one (1) paper of 3 hours

#### Module Description

Advanced Nursing Skills is a certificate MODULE aimed at enhancing advanced skills for registered nurses. These skills focus on ECG's selected laboratory results, wound care and imaging

### DD.2 MODULE DESCRIPTOR: CLINICAL ATTACHMENT IN ADVANCED NURSING SKILLS

<b>Module title:</b>	<b>Clinical Attachment in Advanced Nursing Skills</b>
<b>Code:</b>	NCAN4780
<b>NQA level:</b>	7
<b>Contact hours:</b>	3 hr x 28 weeks
<b>Credits:</b>	24

**Prerequisite:** None

**Module assessment:**

Continuous assessment: 50% . A minimum of four assignments/case presentations [general rule 7.21.3(2)]  
practical examination 50%:

**Module Description**

The practical attachment to Advanced Nursing Skills aims at the mastering skills required for the theoretical module. These skills focus on ECG's selected laboratory results, physical assessment, wound care and imaging

## **E. POST GRADUATE CERTIFICATE IN PHARMACOTHERAPY**

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### **E.1 Admission requirements**

B Degree or comprehensive Diploma in Nursing and Midwifery  
AND  
Proof of registration at the Namibian Nursing Council

### **E.2 Duration of the study**

This is a 3 months certificate (40 credits) offered over 1 academic year on part time.

### **E.3 Delivery mode**

The module is presented by means of accompanied learning including 45 hours face – to – face teaching per year to allow candidates to attend during their off duty times .

### **E.4 Curriculum Framework**

**Certificate in Pharmacotherapy [TOTAL CREDITS 40]**

<b>Semester 1</b>				<b>Semester 2</b>			
<b>Module</b>	<b>Code</b>	<b>Hrs/ week</b>	<b>Credits</b>	<b>Module</b>	<b>Code</b>	<b>Hrs/ week</b>	<b>Credits</b>
Pharmacotherapy	<b>NPCT 4760</b>	45 hrs per year	8	Pharmacotherapy	<b>NPCT 4760</b>	45 hrs per year	8
Clinical attachment in pharmacotherapy	<b>NCAP4780</b>	Self accompanied learning	12	Clinical attachment in pharmacotherapy	<b>NCAP 4780</b>	Self accompanied learning	12
<b>Total credits: 40</b>			<b>20</b>				<b>20</b>

## **EE MODULE DESCRIPTOR:**

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### **EE.1 MODULE DESCRIPTOR: PHARMACOTHERAPY**

**Module Title:** Pharmacotherapy  
**Code:** NPCT 4760  
**NQF:** 7  
**Contact hours:** 1 day per month self directed and accompanying learning (4 hours per month for theory (pharmacology) and 2 hours per month for practical) for 10 months  
**Credits:** 16  
**Pre-requisite:** None

**Module Assessment:**

Continuous assessment 50%: A minimum of four tests/assignments [General rule 7.21.3(2)]  
Examination 50%: [1 x 3hr paper]

**Module Description:**

In order to comply with the provisions of the Medicines and related Substances Control Act of 1965 (Act 101 of 1965) and the recently adopted Integrated Management of Adult and Adolescent Illness program, registered nurses and midwives whose practice requires them to acquire, keep, prescribed and issue medicines must produce proof of having followed an approved MODULE of study in pharmacotherapy, examination, diagnosis and treatment and passed an examination on this.

**Module requirements:**

Regular class and practical attendance, acquisition of prescribed materials is compulsory; reading of prescribed material in advance; active participation in class discussions and practical sessions; assignments handed in on time; successful attainment of the required continuous marks.

## **EE.2 MODULE DESCRIPTOR: CLINICAL ATTACHMENT IN PHARMACOTHERAPY**

<b>Module Title:</b>	<b>Clinical Attachment in Pharmacotherapy</b>
<b>Code:</b>	NCAP 4780
<b>NQF:</b>	7
<b>Contact hours:</b>	3 hours X 28 Weeks practical
<b>Credits:</b>	24
<b>Pre-requisite:</b>	None

### **Module Assessment:**

Continuous assessment 50%: A minimum of four case studies/assignments [General rule 7.21.3(2)]  
1 practical examination

### **Module Description:**

This module aims at strengthening the skills in assessment, diagnosing and treatment.

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## **BACHELOR OF SCIENCE (PRE-MEDICAL) TRAINING**

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## F. BACHELORS OF SCIENCE (PRE-MEDICAL) TRAINING

### F.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.

### F.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 1<sup>st</sup> 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.

### F.3 EXAMINATION REGULATIONS

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

### F.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 qualify to be transferred to other universities.

### F.5 PRACTICAL

Attendance of practical classes is compulsory

### F.6 CURRICULUM COMPILATION

#### YEAR 1 (PHASED OUT 2010)

#### 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 3512	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
<b>YEAR 2 SEMESTER 1</b>					<b>SEMESTER2</b>				
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 3652	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	

## FF. MODULE DESCRIPTIONS ( SYLLABI)

### FF.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

### FF.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.

### FF.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.

### **FF.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, remainder 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.

### **FF.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.

### **FF.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.

### **FF.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 than 2 tests and 2 assignments) 40%  
Practicals (not less than 10 marked assignments) 50%

**Examination:** 60% (1 x 2 hour examination paper)

**Prerequisites:** HIGSCE/IGCSE Biology

**Module description:**

This course is 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 domain 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, pyrophyta, cryptophyta, bryophytes, seedless vascular plants, gymnosperms, and the angiosperms.

**FF.8 MODULE DESCRIPTOR: DIVERSITY OF LIFE II**

**Module title:** Diversity of Life II  
**Code:** SBLG3512  
**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/IGCSE 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 evolutionary 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 Myxiniiformes, Petromyzontiformes, Placoderms, Chondrichthyes, 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.

**FF.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.

**FF.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 & Solubility 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).

## FF.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.

**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

Year 2

## FF.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 genome size and complexity will be described in the course as the foundation 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, panology 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 electrophoresis
- and introduction to PCR
- The practical component will include analysis of genetic crosses using the fruit fly, *Drosophila melanogaster*, as a model organism.

## FF.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.

## FF.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  
SBLG3512 Chemistry 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.

## FF.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.

**FF.17 MODULE DESCRIPTOR: ANALYTICAL CHEMISTRY MODULES:**

**Module title:** Analytical Chemistry I

**Code:** SCHM3602

**NQF Level:** 6

**Contact Hours:** 2 lecture periods per week and 1 practical session per week for, 14 weeks.

**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.

**FF.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, SN<sub>2</sub> and SN<sub>1</sub> reactions; carbocations and carbanions, E<sub>1</sub> and E<sub>2</sub> reactions.

**FF.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 –

