BASIC MEDICAL SCIENCES







HANDBOOK FOR 2022

FACULTY of HEALTH SCIENCES

DEPARTMENT of BASIC MEDICAL SCIENCES

The Department of Basic Medical Sciences is a specialist department servicing programmes primarily in the Faculty of Health Sciences. This Department does not offer any programmes.

Modules are offered in the following disciplines:

Anatomy Epidemiology Pathology Pharmacology Physiology

This handbook offers information on these modules.

WHAT IS A UNIVERSITY OF TECHNOLOGY?

A university of technology is characterised by being research informed rather than research driven where the focus is on strategic and applied research that can be translated into professional practice. Furthermore, research output is commercialised, thus providing a source of income for the institution. Learning programmes, in which the emphasis on technological capability is as important as cognitive skills, are developed around graduate profiles as defined by industry and the professions.

NOTE TO ALL REGISTERED STUDENTS

Your registration is in accordance with all current rules of the Institution. If, for whatever reason, you do not register consecutively for every year/semester of your programme, your existing registration contract with the Institution will cease. Your re-registration anytime thereafter will be at the discretion of the institution and, if permitted, will be in accordance with the rules applicable at that time.

IMPORTANT NOTICES

The rules in this departmental handbook must be read in conjunction with the General Rules (G Rules) contained in the Durban University of Technology (DUT) General Handbook for Students as well as the relevant module Study Guides.

Your attention is specifically drawn to Rule G1 (8), and to the process of dealing with student issues.

FACULTY VISION, MISSION, GOALS & VALUES

VISION

"Leading transformative and innovative Health Sciences education"

MISSION

"Developing holistic professionals responsive to healthcare needs, "through excellence in:

- Teaching and learning
- Research, Innovation and Engagement
- Fostering Entrepreneurship

VALUES professionalism

To work within regulatory framework of professional conduct.

To maintain and develop professional expertise and good work ethic.

INTEGRITY

To conduct ourselves with strong moral principles.

To be honest and authentic. To do what is ethical and just.

UBUNTU

To treat people with respect, fairness courtesy, politeness, and kindness.

TRANSPARENCY

To conduct ourselves with openness and honesty through shared governance. **ACCOUNTABILITY**

To accept responsibility for one's actions.

DERPARTMENTAL VISION, MISSION, GOALS & VALUES

Vision

To be a leading provider of Basic Medical Science education and research **Mission**

Making sense of the human body:

Building the foundation for future health professionals

Values

I. Behaviour

To uphold and promote professionalism, integrity and ethics.

To be responsible and accountable.

2. Mutual Respect

To embrace the principles of uBuntu that represent our humanity and community: kindness, empathy, sensitivity and caring.

3. Student Centeredness

To provide high quality teaching and learning incorporating innovative strategies to address the distinct learning needs of our student.

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- 6.5 BHSc: Emergency Medical Care
- 6.6 BHSc: Environmental Health
- 6.7 BHSc: Medical Orthotics & Prosthetics
- 6.8 BHSc: Nursing Science
- 6.9 BHSc: Radiography
- 6.10 ND: Somatology
- 6.11 HC: Dental Assisting

I. DEPARTMENTAL AND FACULTY CONTACT DETAILS

All departmental enquiries to:

Miss N Manyathi
(031) 373 2406
(031) 373 2405
nondumisom@dut.ac.za
Department of Basic Medical Sciences, Gate
6, Steve Biko Road, Mansfield Site Area,
Ritson Campus

Head of Department	Prof JD Pillay
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Location of Department:	Department of Basic Medical Sciences, Gate
	6, Steve Biko Road, Mansfield Site Area,
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All Faculty enquiries to:

Faculty Officer:	Mrs FT Mayisela
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Location:	Health Sciences Faculty Office, Gate 8, Steve
	Biko Road, Mansfield Site Area, Ritson
	Campus

Executive Dean:	Prof GG Mchunu
Executive Dean's Secretary	Mrs Bilkish Khan
Tel No:	(031) 373 2704
Email:	bilkishk@dut.ac.za
Location:	Executive Dean's Office, Gate 8, Steve Biko Road, Mansfield Site Area, Ritson Campus

2. STAFFING

Name and Qualification

Full Professors	Prof JD Pillay, PhD (Physiology: Sports Science) (UCT); MPH (UKZN); BMedSc (Hons) (UDW)		
Associate Professors	Prof F Haffejee, PhD (Optics & Imaging - Medicine) (UKZN); MSc (UKZN); BSc (Hons) (UDW); BSc (UN)		
Senior Lecturers	Dr F Ally, PhD (Anatomy) (UKZN); MEd (Higher Ed) (UKZN); HDE (Postschool)(UN); BMedSc (Hons) (UDW)		
	Dr N Govender, PhD (Optics & Imaging - Medicine) (UKZN); MSc (UDW); BSc (Hons) (UDW); BSc (UDW)		
	Dr Y Thandar, PhD (Pharm.) (UKZN), MMedSc (ClinPharm) (UDW); BPharm (UDW)		
Lecturers	Dr AK Bhundoo, MTech (Chiropractic) (DUT)		
	Mrs JF Ducray, MMedSc (UKZN); BMedSc (Hons) (WITS); BSc (WITS)		
	Dr CM Kell, MTech (Hom) (DUT); PGCE (UNISA)		
	Mrs BO Mbhele, MMedSc (UKZN); BMedSc (Hons)(UKZN); BSc (BiolSc)(UKZN)		
Senior Technicians	Mr AM Mkhize, MTech (Biotechnology); BTech (ML Sultan); BSc (Univ. Zululand)		
Technicians	Mrs Y Padayachee, BSc (RU)		
	Dr GM Zondi, MTech (Homoeopathy) (DUT)		
Technical Assistant	Mr S Ninela		
Laboratory Assistant	Mr TS Nyaba		
Secretary	Miss N Manyathi, MMHRMI (DUT) B.Tech (HR) (DUT); ND (HR) (DUT)		

3. DEPARTMENTAL INFORMATION & RULES

3.1 Programmes serviced by the Department

Programmes serviced	Qualification	SAQA NLRD
	code	number
BHSc: Clinical Technology	BHCLTI	96409
BHSc: Chiropractic	BACHRI	96409
BHSc: Emergency Medical Care	BHEMCI	72207
BHSc: Environmental Health	BHEVHI	74471
BHSc: Homoeopathy	BHHOMI	94553
BHSc: Medical Laboratory Science	BHMLSI	101689
BHSc: Medical Orthotics and Prosthetics	BHMOPI	130807
BHSc: Nursing Science	BHNSSI	91786
BHSc: Radiography: Diagnostic Radiography	BTRADI	16732
BHSc: Radiography: Diagnostic Sonography	BHDRDI	73690
BHSc: Radiography: Nuclear Medicine	BHDSNI	94832
BHSc: Radiography: Radiotherapy	BHNMDI	94679
	BHRDTI	94803
ND: Somatology	DISOMI	99725
HC: Dental Assisting	HCDNAI	66412

3.2 MODULES OFFERED BY THE DEPARTMENT

Refer to 6. Modules and content per programme

3.3 DEPARTMENTAL INFORMATION

3.3.1. Academic Integrity

Please refer to the General Rules pertaining to academic integrity G13 (1) (o). These will be enforced wherever necessary to safeguard the worthiness of our qualifications, and the integrity of the Faculty of Health Sciences at the DUT.

3.3.2. Code of Conduct for Students

In addition to the General Rules pertaining to Student Conduct SR3 (3), a professional code of conduct pertaining to behaviour, appearance, personal hygiene and dress shall apply to all students registered within the Faculty of Health Sciences, at all times.

Students registered in the department will be required to adhere to the dress code as determined by the Head of Programme.

Students must adhere to all Health and Safety regulations both at DUT's Wentworth Hospital teaching facility, all DUT campuses and in clinical placement sites. Failure to do so will be treated as a breach of discipline.

3.3.3. Uniforms

Students must adhere to instructions regarding specific uniforms required during practical sessions. Refer to your Study Guide for more details.

3.3.4 Health and Safety

Students must adhere to all Health and Safety regulations both while at DUT

and in Work Integrated Learning (WIL) placements. Failure to do so will be treated as a breach of discipline. Refer to your Study Guide for more details.

3.3.5 Attendance

Students are encouraged to achieve 100% attendance for all planned academic activities as these are designed to provide optimal support for the required competency. Where absence is unavoidable, the student must timeously advise the department of the reason. Only exceptional reasons will be condoned. Poor attendance records may lead to penalties.

A register of attendance will be circulated during each lecture and practical. It is the responsibility of all students to sign the register personally during these sessions. In the case of online sessions delivered via Microsoft Teams, a register will be downloaded at the start and the end of the session.

Consult your module Scheme of Work for the dates of the assessments. Absence from these assessments will not be condoned without a valid reason (and proof thereof). These assessments collectively constitute the module course (final) mark.

Assignments and short assessments may also be conducted as determined by the lecturers and marks from these assessments may contribute towards the course (final) mark.

3.3.6 General Information for Anatomy Dissection Hall

- 3.3.6.1. Under no circumstances may unauthorised persons (persons not registered for Anatomy) enter.
- 3.3.6.2. Cadavers and all human materials must be treated with utmost respect.
- 3.3.6.3. All students must be appropriately dressed. White lab coats are compulsory.
- 3.3.6.4. Smoking and eating are strictly prohibited.
- 3.3.6.5. Each cadaver has 2 stainless steel tags attached (ear and small toe). Do not remove these tags.
- 3.3.6.6. Do not cut or tear plastic used to cover cadavers.
- 3.3.6.7. Buckets at the base of the table are for collecting body fluids only and not for waste paper, scalpel blades, etc. Specific bins are provided for the disposal of wastepaper, scalpel blades, etc.
- 3.3.6.8. Do not leave scalpel, forceps, etc. on the tables or in the cadaver.
- 3.3.6.9. Keep tables clean at all times.
- 3.3.6.10. Do not drop pieces of human material on the floor. Place all off-cuts into bowls provided.
- 3.3.6.11. A bowl is provided at each dissection table for human material only. Please refrain from placing paper towels, scalpel, blades, etc. into these receptacles.
- 3.3.6.12. Do not dispose of paper towels, scalpel blades, etc. into bins specifically provided for human material.
- 3.3.6.13. As far as possible do not discard skin. Use it to cover the cadaver. These are best to prevent dehydration.
- 3.3.6.14. After each session of dissection cover the cadavers appropriately.
- 3.3.6.15. Use the fluids provided in sprays to keep cadavers moist.

3.3.7 General Laboratory Information

- 3.3.7.1. No student is allowed in the laboratory unless a staff member is present.
- 3.3.7.2. Any student without a laboratory coat will NOT be admitted into the laboratory.
- 3.3.7.3. Closed shoes must be worn at all times especially when dissecting equipment is in use.
- 3.3.7.4. No eating, drinking or smoking is allowed in the laboratory.
- 3.3.7.5. All cuts and sores must be covered.
- 3.3.7.6. Appropriate behaviour is expected at all times.
- 3.3.7.7. Each student will be allocated a bench space/work station for the year. It is the responsibility of the students to check their stations BEFORE the commencement of each practical session and to report any discrepancies immediately to a staff member. This pertains particularly to microscopes and slides.
- 3.3.7.8. Any breakages will be charged to the student responsible. The combined class will share the cost if the person responsible for the damage is not identified.
- 3.3.7.9. Students are not permitted into the preparation room or wash up room.
- 3.3.7.10. Students are responsible for keeping their workstations clean and tidy.
- 3.3.7.11. Microscopes must be handled and stored correctly after use. You will be advised on these procedures. Any mishandling of equipment could result in a student being denied access to the laboratory for the remainder of the year/course.
- 3.3.7.12. Practical sessions will begin promptly at the scheduled times. Students arriving late will not be admitted into the laboratory.
- 3.3.7.13. Report injuries to a staff member immediately.

4. DEPARTMENTAL RULES

These rules apply to all students registered for modules offered by this Department.

4.1 Special Assessments and Condonements

No missed assessments will be condoned.

- Due to COVID-19 related restricts some assessment might have to be undertaken virtually. In addition some summative assessments might also have to be changed to continuous assessment methods. Clarity on the nature of assessments will be communicated to students upon receipt of relevant decisions from university management.
- If a student misses an assessment for reasons of illness, a special assessment may be granted if the student provides a valid medical certificate specifying the nature and duration of the illness, and a declaration that for health reasons it was impossible for the student to sit for the assessment. This certificate must be submitted to the module lecturer no later than five (2) working days after the "fit for duty" date on the medical certificate.
- If a student misses an assessment for reasons other than illness, a special
 assessment may be granted if the student provides a valid notification that for
 unavoidable reasons it was impossible for the student to sit for the assessment.

This must be submitted to the module lecturer no later than two (2) working days after that date of the missed assessment.

• Any student who misses an assessment and who does not qualify for a special assessment, and any student who qualifies for a special assessment but fails to write it, shall be awarded a zero mark for the missed assessment.

4.2 Student Appeals

Rule GI (8) refers to:

Any student wishing to appeal against:

- (a) The implementation of an Institutional Rule must do so in the first instance to the relevant Head of Department;
- (b) The decision of a Head of Department must do so via the relevant Executive Dean to the Faculty Board or a delegated Committee of the Faculty Board. The decision of the Faculty Board or a delegated Committee of the Faculty Board is final and no further appeals will be considered thereafter (Amended we f. 2009(01))

(Amended w.e.f. 2009/01)

5. BOOKLIST - PRESCRIBED TEXTBOOKS FOR 2022

(The student must obtain the prescribed textbooks, and should consult the recommended textbooks)

Authors Name	Course	Title	Date of Publication	Library Copies
Gosling, Harris, Whitemore, Wiiliam	Homoeo/Chiro (Anatomy I, II)	Human Anatomy Atlas & Text	Latest Edition	I
	MOP/Homoeo/ Chiro-	Neuroanatomy, An illustrated		
Crossman, A.R.; Neary, D	(2nd yr. only) (Anatomy II-Clin Anat)	colour text Churchill Livingston	Latest Edition	I
Moore. K L	Homoeo/Chiro (Anatomy I, II)	Clinically Oriented Anatomy Williams and Wilkens, Baltimore	Latest Edition	2
Wheater, et al.	Homoeo/Chiro/ (Anatomy I) (Physio I, II)	Functional Histology: A text and colour Atlas Churchill	Latest edition	I
Penny Webb, Chris Bain & Sandi Pirozzo	Homoeo/Chiro (Epi II)	Essential Epidemiology edition	Latest edition	4
C.J. Finlayson & B.A.T. Nevel	Homoeo/Chiro III (Pathology)	Pathology at a Glance	Latest edition	5
Dreyer A, Kharwa R, Moch, S and Thandar Y	Homoeo/Chiro/ Clin Tech./EMC/ Postgrad & Nursing Science (Pharmacology)	Pharmacology for Nurses and Pharmacology for Health Sciences	4 th edition	3
Tortora, G.J. & Derrickson, B.	Food & Consumer Science/Medical Laboratory Science/Nursing Science/Soma I/ /MOP/Clin Tech I/ Homoeo/Chiro/ EH/EMC (Physiology 1)	Introduction to the Human Body	Latest edition	4
Tortora, G.J., Derrickson, B	Radiography (Physiology I)	Principles of Anatomy and Physiology	Latest edition	2
Keith L. Moore,	MOP/Clin Tech/EMC I/	Essential Clinical Anatomy	Latest Edition	2

Anne M.R. Agur	Radiography (Anatomy I)			
Derrickson, B	EMC II/ Homoeo/Chiro II (Physio 2)	Human Physiology	Latest Edition	I
McKinney & Woodman	Homoeo/Chiro (Pathology)	Pathology -Crash course	5th edition	I

6. MODULES AND ASSESSMENTS PER PROGRAMME

NB: Students are required to read this section in conjunction with the relevant study guide. (CA: Continuous Assessment)

6.1 BACHELOR OF HEALTH SCIENCES: CLINICAL TECHNOLOGY

MODULE (CODE)	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
Anatomy	Introduction to Anatomy	CA
AAMY101	Thorax	
	Abdomen and Pelvis	
	Limbs and Back	
	Neuroanatomy	
	Head and Neck	
Physiology	Introduction	CA
PYSL101	Nervous System	
	Cardiovascular System	
	Respiratory System	
	Renal System	
	Cardiovascular system	
	Lymphatic & Immunity	
	Reproductive System	
	Gastro-intestinal system	

6.2 BACHELOR OF HEALTH SCIENCES: CHIROPRACTIC

MODULE (CODE)	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
Gross Anatomy	Introduction to Anatomy	CA
IA	Thorax	
ANGRIII		
Gross Anatomy	Abdomen	CA
IB	Pelvis	
ANGR121		
Histology	Introduction to Histology	CA
HISTIII	Primary Tissues: including epithelia, connective tissues (Binding tissues, blood,	
	cartilage and bone), muscle and nervous tissue	
	Histology of the Body Systems including cardiovascular, integumentary,	
	lymphatic organs, respiratory, digestive, urinary, endocrine & reproductive	
Physiology IA	The Human Body	CA
PHGYIII	The Chemical level of organisation: Basic Chemistry	
	The Cellular level of organisation	
	The Integumentary System: Skin and membranes	
	The Muscular System	
	The Nervous System	
	Special Senses	
Dhumin In mulD	The Factor Contains	
Physiology IB		CA
PHGTIZI	The Cardiovascular System	
	The Lymphatic System and Body Defences	
	The Kespiratory System	
	The Digestive System	

	The Linnary System	
	The Reproductive System	
Piological	The scope of higher	CA
Biological	the scope of biology,	64
Sciences	Multi-slub-s	
ысыти	Fruiticentiar organisation,	
	Energy transformation and nutrient procurement,	
	Gaseous exchange, Internal transport,	
	Cellular reproduction and inheritance,	
	Reproduction and development,	
	Evolution,	
	Ecology,	
	Origin of life, viruses and monera,	
	The Protistan Kingdom,	
	The Plant Kingdom,	
	The Fungal Kingdom,	
	The Animal Kingdom.	
	The scope of microbiology.	
	Characteristics and types of bacteria	
	Characteristics of protozoa	
	Yeasts and moulds	
	Laboratory study of bastoria	
	Characteristics of Disketteria.	
	Characteristics of Rickettsale, Chiamydale and Mycoplasmas.	
	Characteristics of viruses.	
	General bacterial physiology.	
	Micro-organisms in the ecological system.	
	Basic principles of sterilization and disinfection.	
	Antimicrobial agents and chemotherapy.	
Gross Anatomy II	Back	CA
ANGR201	Upper Limb	
	Lower Limb	
Clinical Anatomy	Neuroanatomy	CA
ANGR221	Head & Neck	
	Applied Anatomy	
Physiology IIA	The Neuro-endocrine System	CA
PHGG201	The Cardiorespiratory System	G
11100201	The Cardiorespiratory system	
Dhumiala ar IID	The Canito wines a store	CA.
Physiology IID	The Genicourinary system	CA
PHG1201		
Immunology,	Parasitology	CA
Parasitology and	Immunology	
Communicable	Communicable Diseases	
Diseases		
EPIP201		
General	Introduction to Pathology and Disease	CA
Pathology	Cell injury, death and necrosis	
GEPA201	Amyloid	
	Calcification	
	Pigmentation	
	laundice	
	Oedema fluid and electrolyte imbalance:	
	Hypomomia congestion hapmarrhage thrombosis embolism inferstion	
	Information booling and ropain Infaction and disease	
	Disorders of Crowth and repairs Efforts of Padiction	
	Disorders of Growth and cancers; Ellects of Radiauon	
	Disorders of Carbonydrate metabolism; Nutritional disorders	
	Autoimmune disorders	
Systemic	Skin	CA
Pathology IA	Cardiovascular System	
SYSP311	Haematopoietic and Lymphoid Systems;	
	Respiratory System	
	Renal System	

6.3 BACHELOR OF HEALTH SCIENCES: HOMOEOPATHY

MODULE (CODE)	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
Gross Anatomy Module A GRAN101	Introduction to Anatomy Thorax	CA
Gross Anatomy Module B GRAN102	Abdomen Pelvis	CA
Histology HSTL101	Introduction to Histology Primary Tissues: including epithelia, connective tissues (Binding tissues, blood, cartilage and bone), muscle and nervous tissue Histology of the Body Systems including cardiovascular, integumentary, lymphatic organs, respiratory, digestive, urinary, endocrine & reproductive	CA
Anatomy II Gross GRAN201	Back Upper Limb Lower Limb	CA
Anatomy II Clinical CLAN101	Neuroanatomy Head & Neck Applied Anatomy	CA
Epidemiology II EPIP101	Immunology Parasitology Communicable Diseases	CA
Epidemiology II EPPH101	Public Health	CA
General Pathology II GPAT 101	Introduction to Pathology and Disease Cell injury, death and necrosis Amyloid Calcification Pigmentation Jaundice Oedema, fluid and electrolyte imbalance; Hyperaemia, congestion, haemorrhage, thrombosis, embolism, infarction Inflammation, healing and repair; Infection and disease Disorders of Growth and cancers; Effects of Radiation Disorders of Carbohydrate metabolism; Nutritional disorders Autoimmune disorders	CA
Physiology IA PHSY102	The Human Body The Chemical level of organisation: Basic Chemistry The Cellular level of organisation The Integumentary System: Skin and membranes The Muscular System The Nervous System Special Senses	CA
Physiology IB PHSY103	The Endocrine System The Cardiovascular System The Lymphatic System and Body Defences The Respiratory System The Digestive System The Urinary System The Reproductive System	CA
Physiology IIA	The Neuro-endocrine System	CA

	The Cardiorespiratory System	
Physiology IIB	Genitourinary System	CA
PHGU201		
Systematic	Skin	CA
Pathology II	Cardiovascular System	
Module I	Haematopoietic and Lymphoid Systems;	
SYPTIOI	Respiratory System	
	Renal System	
Systemic Pathology	Gastrointestinal Tract & Liver, Pancreas & Biliary Tract	CA
Module II	Musculoskeletal System	
SYPT102	The Nervous System;	
	Endocrine System	
	The reproductive system	
Pharmacology	General Aspects of Drug Therapy;	CA
PHYCI02	Pharmacokinetics and Pharmacodynamics	
	Administration of drugs to patients	
	Adverse effects of drugs	
	Drugs affecting the autonomic, somatic and sensory nervous system	
	Central nervous system	
	Haemopoletic system	
	Respiratory system	
	Digestive tract	
	Analgesics and and-initiaminatory drugs	
	Anunistamines	
	Antimicrohial and other anti-infective drugs	
	Cardiovascular drugs	
	Poisoning and drug treatment in emergencies	
Biological Principles I	The scope of biology	CA
BLGP101	characteristics of cells.	
	Multicellular organisation.	
	Energy transformation and nutrient procurement,	
	Gaseous exchange, Internal transport,	
	Cellular reproduction and inheritance,	
	Reproduction and development,	
	Evolution,	
	Ecology,	
	Origin of life, viruses and monera,	
	The Protistan Kingdom,	
	The Plant Kingdom,	
	The Fungal Kingdom,	
	The Animal Kingdom.	
	The scope of microbiology.	
	Characteristics and types of bacteria.	
	Characteristics of protozoa,	
	reasts and moulds.	
	Characteristics of Picketteria.	
	Characteristics of viruses	
	General bacterial physiology	
	Micro-organisms in the ecological system	
	Basic principles of sterilization and disinfection	
	Antimicrobial agents and chemotherapy.	

6.4 BACHELOR OF HEALTH SCIENCES: MEDICAL LABORATORY SCIENCES

MODULE (CODE)	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
Anatomy &	Organization and functions of all systems of the human body;	CA
Physiology IA	Homeostatic mechanisms	

ANPA 102	Structure and function of cellular organelles, including the causes and cellular basis of cancer Body tissues, including epithelial, connective, muscle and nervous tissues The integumentary system The Neuro-endocrine systems	
Anatomy & Physiology IB ANPB 102	The Cardiovascular and respiratory systems; The digestive & urinary systems; Reproductive system	CA

6.5 BACHELOR OF HEALTH SCIENCES: EMERGENCY MEDICAL CARE

MODULE (CODE)	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
Physiology I	Introduction	CA
PHSL101	Cells	
	Tissues	
	Nervous System	
	Endocrine System	
	Reproductive System	
	Cardiovascular System	
	Respiratory System	
	Muscular System	
	Digestive System	
	Urinary System	
General	Introduction to Pathology and Disease	CA
Pathology	Cell injury, death and necrosis	
GPTA101	Amyloid	
	Calcification	
	Pigmentation	
	Jaundice	
	Oedema, fluid and electrolyte imbalance;	
	Hyperaemia, congestion, haemorrhage, thrombosis, embolism, infarction	
	Inflammation, healing and repair; Infection and disease	
	Disorders of Growth and cancers; Effects of Radiation	
	Disorders of Carbohydrate metabolism; Nutritional disorders	
	Autoimmune disorders	
Pharmacology I	General Aspects of Drug Therapy	CA
PHAR101	Pharmacokinetics and Pharmacodynamics	
	Administration of drugs to patients	
	Adverse effects of drugs	
	Drugs affecting the autonomic, somatic and sensory nervous system	
	Central nervous system	
	Haemopoietic system	
	Respiratory system	
	Digestive tract	
	Analgesics and anti-inflammatory drugs	
	Antihistamines	
	Hormones and hormone antagonists	
	Antimicrobial and other anti-infective drugs	
	Cardiovascular drugs	
	Poisoning and drug treatment in emergencies	
Anatomy I	Introduction to Anatomy	CA
AAMY102	Thorax	
	Abdomen and Pelvis	
	Limbs and Back	
	Neuroanatomy	
	Head and Neck	
Physiology II A	The Neuro-endocrine System	CA
PSYA 201	The Cardiorespiratory System	
Physiology II B PSYB 202	The Genitourinary System	CA

6.6 BACHELOR OF HEALTH SCIENCES: ENVIROMENTAL HEALTH

MODULE (CODE)	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
Anatomy &	Organisation of the body	CA
Physiology	Homeostatic mechanisms	
ANPAIO	Structure and function of cellular organelles, including the causes and cellular	
	basis of cancer	
	Body tissues, including epithelial, connective, muscle and nervous tissues	
	The integumentary system	
	The Neuro-Endocrine system	
Anatomy &	The Cardiovascular and respiratory system	CA
Physiology	The digestive & urinary systems	
ANPB102	Reproductive system	

6.7 BACHELOR OF HEALTH SCIENCES: MEDICAL ORTHOTICS & PROSTHETICS

MODULE (CODE)	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
Anatomy I	Introduction to Anatomy	CA
ANMY 101	Musculoskeletal	
	Back, Upper limbs and Lower limbs.	
Anatomy II	Section A: Neck –surface anatomy, superficial neck muscles, triangles of	CA
ANMY201	the neck, deep structures of the neck, root of the neck, cervical viscera,	
	thyroid gland, parathyroid glands, facial planes, pharynx, larynx.	
	Section B: Head – Osteology, the Face - muscles, neurovascular	
	structures, lymphatic drainage, the Scalp, cranial fossae and foramina (self-	
	study), the Orbit, parotid and Temporal regions, temporomandibular joint,	
	oral region (self-study), salivary glands, nose and paranasal sinuses, ear (self-	
	study).	
	Section C: Neuroanatomy – Embryology, cerebral topography,	
	brainstem and spinal cord, cerebellum, thalamus, epithalamus and	
	hypothalamus, reticular formation, visual, olfactory and limbic systems,	
	cranial nerves, blood supply of the brain.	
Clinical Studies	Inflammation, repair and healing.	CA
CLCSIOI	Inflammatory diseases.	
	Degenerative diseases.	
	Post traumatic conditions.	
	Metabolic disorders.	
	Circulatory disorders	
	Amputations	
	Post-traumatic osteoporosis	
	Aseptic bone necrosis.	
	Paralysis resulting from herve lesions.	
	Diseases of the knoo	
	Diseases of the foot	
	Diseases of the shoulder, elbow and hand, limb deformities, skin disorders	
	and wound repair	
Clinical Studies	Nervous system disorders and diseases (child and adult)(CNS and PNS)	CA
CLCS201	including Polio, Cerebral palsy, paraplegia and quadriplegia, ataxia.	
	Parkinson's disease.	
	Spinal and thoracic deformities, scoliosis, kyphosis.	
	Diseases of the spine.	
	Circulatory disorders.	
	Metabolic disorders.	
	Tumors.	
	Degenerative diseases.	
	Burns.	

	Fractures.`	
Physiology for MOP	Organisation of the body	CA
PYSL102	Homeostatic mechanisms	
	Structure and function of cellular organelles, including the causes and	
	cellular basis of cancer	
	Body tissues, including epithelial, connective, muscle and nervous tissues	
	The Integumentary system,	
	The Neuro-Endocrine system	
	The cardiovascular system, immunity and the lymphatic system	
	The respiratory system.	
Basic Pharmacology	Basic pharmacology	CA
BPHY101	Pharmacodynamics; Pharmacokinetics	
	Central nervous system	
	Non-steroidal anti-inflammatory drugs	
	Vaccines	
	Cardiovascular system	
	Haemopoietic system	
	Respiratory system	
	Gastro-intestinal tract	
	Endocrinology	
	Vitamins and mineral	
	Anti-neoplastic drugs and immune suppressors	
	Wound care	
	Dermatology	
	Poisoning and emergencies	
	HIV/AIDS	
	Anti-histamines.	

6.8 BACHELOR OF HEALTH SCIENCES: NURSING SCIENCE

MODULE (CODE)	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
Introduction to	General aspects of drug therapy including scheduling and legislation	
Pharmacology	Pharmacokinetics and Pharmacodynamics	CA
INPH102	Adverse drug reactions including drug interactions	
	Administration of drugs to patients	
	Autonomic Nervous System (Pharm)	
Pharmacology	Infective diseases, antimicrobial and antiparasitic drugs	CA
PHMC201	Central nervous system drugs	
	Drugs that affect the respiratory system	
	Drugs that affect the cardiovascular system	
	Analgesics and anti-inflammatory drugs	
	Drugs that affect the digestive tract	
	Drugs that affect the endocrine system	
	Family planning and immunization	
	Pharmacodynamics with ref to toxicity, adverse drug reactions and	
	interactions, drugs in pregnancy, lactation, children and elderly; Adverse	
	drug events and reporting mechanisms	
Primary Health	General Aspects of Drug Therapy	CA
Care IV	Pharmacokinetics and Pharmacodynamics	
PRHC401	Administration of drugs to patients	
	Adverse effects of drugs	
	Drugs affecting the autonomic, somatic and sensory nervous system	
	Central nervous system	
	Haemopoietic system	
	Respiratory system	
	Digestive tract	
	Analgesics and anti-inflammatory drugs; Antihistamines	
	Hormones and hormone antagonists	
	Antimicrobial and other anti-infective drugs	
	Cardiovascular drugs	
	Poisoning and drug treatment in emergencies	
	Cough /Emphysema	

Ulcers / Constipation / Diarrhea	
Poisoning and Emergency drug treatment	

6.9 BACHELOR OF HEALTH SCIENCES: RADIOGRAPHY

MODULE (CODE)	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
Anatomy I	Introduction to Anatomy	CA
ANTMIOI	Musculoskeletal Anatomy	
Anatomy II	Thorax	CA
ANTM201	Abdomen and Pelvis	
	Limbs and Back	
	Neuroanatomy	
	Head and Neck	
Physiology IA	Introduction	CA
PYSAI0I	Nervous System	
	Endocrine System	
Physiology IB	Cardiovascular System	CA
PYSBI01	Respiratory System	
	Renal System	
	Lymphatic & Immunity	
	Reproductive System	
	Gastro-intestinal system	

6.10 NATIONAL DIPLOMA: SOMATOLOGY

MODULE (CODE)	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
Anatomy and Physiology for Somatology APHA101	Introduction to living organisms, Cell - cell metabolism, Tissues, Integumentary System, Muscular System, Skeletal System, Nervous System, Senses, Endocrine System	CA
Anatomy and Physiology for Somatology APHB101	Cardiovascular System, Blood, Heart & Vessels, Lymphatic System, Respiratory Systems, Digestive System, Urinary System, Reproductive System	CA
Disease Fundamentals DSFD101	Overview of disease processes and fundamental terminology. Disorders of cells and tissues, skin, bone, joints, muscles and pregnancy. Disorders in the neurological, digestive, endocrine, cardiovascular, lymphatic, immune, respiratory, renal and reproductive systems	CA
Basic Pharmacology I BSPH101	Introduction and basic pharmacology Care and control of Medicines Pharmacokinetics and Pharmacodynamics Male and Female Hormones and Contraceptives Topical Dermatologicals Drugs acting on the heart and blood Antimicrobials Drugs acting on the GIT Drugs acting on the CNS Drugs in endocrine disorders	CA

6.11 HIGHER CERTIFICATE: DENTAL ASSISTING

MODULE	LEARNING AREAS/CONTENT	ASSESSMENT PLAN
(CODE)		

Pharmacology for	Introduction to Pharmacology Terminology	CA
Dental Assisting	Pharmacokinetics	
PHDA101	Pharmacodynamics	
	Analgesics	
	Antimicrobials	
	Sedative / hypnotics	
	Miscellaneous Classes	
	Drug Interactions	
	Prescription Writing	