

2017 HANDBOOK
BASIC MEDICAL SCIENCES



HANDBOOK FOR 2017

FACULTY OF HEALTH SCIENCES

DEPARTMENT of BASIC MEDICAL SCIENCES

The above department services programmes, mainly in the Faculty of Health Sciences, and does not offer any programmes of its own.

Courses offered:

Anatomy Pathology Pharmacology Physiology

This handbook offers information on these courses.

WHAT IS A UNIVERSITY OF TECHNOLOGY?

A university of technology is characterized 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 commercialized, 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 DUT General Handbook for Students as well as the relevant subject Study Guides.

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

FACULTY of HEALTH SCIENCES

FACULTY VISION, MISSION, GOALS & VALUES

(November 2012 for 2013-2017)

Vision

Our vision is to be a leading Faculty in transformative and innovative education for health professionals, guided by National imperatives and a strong commitment to socially responsive education. We will strive for excellence in professional and teaching scholarship, as well as in the development of National and global linkages in education, and in the research and development of health.

Mission Statement

Within a values-driven student-centered ethos, the Faculty is committed to developing quality health professionals that are practice-oriented, receptive and responsive to the health care needs of the people of South Africa, and of Africa as a whole. This will be achieved by providing the highest standards of learning, teaching, research, and community engagement, underpinned by a commitment to creating space for students and staff to succeed.

Goals

The Faculty aims to:

- I. Respond to the National health human resource and industry needs within the health sector.
- 2. Ensure the offering of entrepreneurial and leadership skills as a core component of all programmes within the Faculty of Health Sciences.
- 3. Continue to develop community-based projects to foster social responsibility through collaborative projects between programmes.
- 4. Enhance established quality management frameworks to support teaching and learning.
- 5. Develop applied research responsive to community and industry needs.
- 6. Develop mechanisms for the dissemination and application of research outcomes to inform teaching and learning, assessment, community engagement and further research.
- 7. Improve research participation and output through increased post-graduate student enrolment, publications and establishment of research groups.
- 8. Enable the generation of third-stream income through research and innovation (patents / artifacts) in order to supplement existing sources of income for the next five years.
- 9. Attract and retain diverse quality staff, while promoting advancement of individual potential.
- 10. Position DUT Health Sciences nationally

Values

The Faculty is guided by the following core values:

- o Transparency, openness, honesty, and shared governance
- Professional and personal respect for others
- Educational relevance, equity and transformation (curriculum, access and success)
- Loyalty, accountability, dignity and trust

DEPARTMENTAL MISSION & GOALS

The Department of Basic Medical Sciences provides expertise in four disciplines, namely, Anatomy, Pathology, Physiology and Pharmacology. The department services almost all programmes within the Faculty of Health Sciences.

Vision

The Department strives to enhance teaching and learning by improving qualifications, academic development and research output of staff and to initiate innovative post-graduate offerings in collaboration with other departments within the faculty.

Mission

The Department is committed to providing quality and innovative teaching expertise in the disciplines of Anatomy, Physiology, Pharmacology and Pathology in the servicing of undergraduate and postgraduate programmes.

Goals of the Department

- 1. Support the core values of the Faculty of Health Sciences.
- 2. Support the missions of serviced departments.
- 3. To improve throughput by implementing strategies to support teaching and learning in keeping with the Servicing Policy for DUT.
- To update and integrate teaching and learning methods in keeping with current trends.
- 5. To improve staff qualifications and enhance staff development.
- 6. To improve and contribute to research output within the Faculty of Health Sciences.
- 7. To streamline the academic activities and courses offered within the department.
- 8. To provide community service within DUT and the external community.

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I. DEPARTMENTAL AND FACULTY CONTACT DETAILS

All departmental enquiries to:

Secretary: Mrs Ragani Bunsee Tel No: (031) 373 2406

Fax No: (031) 373 2405/0866741111

Email: raganib@dut.ac.za

Location of Department: Department of Basic Medical Sciences, Gate

6, Steve Biko Road, Mansfield Site Area, Rit-

son Campus

All Faculty enquiries to:

 Faculty Officer:
 Mr Vikesh Singh

 Tel No:
 (031) 373 2701

 Fax No:
 (031) 373 2407

 Email:
 vikeshs@dut.ac.za

Location: Health Sciences Faculty Office, Gate 8,

Steve Biko Road, Mansfield Site Area, Rit-

son Campus

Executive Dean:

Executive Dean's Secretary
Tel No:
Fax No:

Email:

Professor T Puckree
Mrs Bilkish Khan
(031) 373 2704
(031) 373 2620
bilkishk@dut.ac.za

Location: Executive Dean's Office, Gate 8. Steve Biko

Road, Mansfield Site Area, Ritson Campus

2. **STAFFING** Name and Qualification **Head of Department** Mrs RBE Kharwa, MMedSc (ClinPharm) (UDW); BPharm (UDW); NC: Fam. Plan (Potch) Senior Lecturers Dr F Haffejee, PhD (Optics & Imaging - Medicine) (UKZN); MSc (UKZN); BSc (Hons) (UDW); BSc (UN) Dr N Govender, PhD (Optics & Imaging - Medicine) (UKZN); MSc (UDW); BSc (Hons) (UDW); BSc (UDW) Dr ID Pillay, PhD (Physiology: Sports Science) (UCT); MPH (UKZN); BMedSc (Hons) (UDW); BMedSc (UDW) Mr MM Walters, MSc (Univ. Stellenbosch), BSc (Hons), BSc, HDE Dr F Ally, PhD (Anatomy) (UKZN); MEd (Higher Ed) Lecturers (UKZN); BMedSc (Hons) (UDW); BMedSc(UDW); HDE(Post school)(UKZN) Mrs | Ducray, MMed (Sci) (UKZN); BMedSc (Hons) (WITS); BSc (WITS) Dr C Kell, MTech (Hom) (DUT) Dr B.N. Mkhwanazi, PhD (Physiology) (UKZN); MSc (UKZN); BSc (Hons) (UKZN); BSc(UKZN) Ms Y Thandar, MMedSc (ClinPharm) (UDW); BPharm (UDW) **Technicians** Mr A Mkhize, MTech (Biotechnology); BTech(Biotech)(ML Sultan); BSc(Univ. Zululand) Mrs B Mbhele, MMedSc (UKZN), BMedSc (Hons), BSc (BiolSc) Mrs Y Padayachee, BSc (RU) Mr S Ninela

Technical Assistant

Secretary Mrs R Bunsee

General Assistant Mr S Govender

3. **DEPARTMENTAL INFORMATION & RULES**

3.1 Programmes serviced by the Department

| Programmes serviced | Qualification | SAQA NLRD |
|--|---------------|-----------|
| | code | number |
| ND: Biomedical Technology | NDBMTI | 1895 |
| ND: Clinical Technology | NDCLTI | 1879 |
| BHSc: Clinical Technology | | |
| ND: Chiropractic | NDCHR | 72171 |
| ND: Consumer Science: Food and Nutrition | NDCSF2 | 66412 |
| ND: Homoeopathy | NDHOMI | 72186 |
| NC: Dental Assisting | NCDNAI | 72207 |
| BHSc: Emergency Medical Care | BHEMCI | 74471 |
| ND: Environmental Health | NDEVHI | 72231 |
| BHSc: Medical Orthotics and Prosthetics | BHMOPI | 91786 |
| B Tech: Nursing Science | BTNSI | 76925 |
| BTech: Nursing: Primary Health Care | BTNPHI | 16732 |
| BHSc: Radiography: Diagnostic | BTRADI | 73690 |
| BHSc: Radiography: Nuclear Medicine | BTRDNI | 73690 |
| BHSc: Radiography: Therapy | BTRDTI | 73690 |
| BHSc: Radiography: Ultrasound | BTRDUI | 73690 |
| ND: Somatology | NDSOMI | 3211007 |

3.2 Subjects offered by the department

| Programme | Subjects | Code | Credits | Assessment | Pre-requisites | Co- requisites |
|-----------------------|--|----------|---------|------------|--|-------------------|
| Biomedical Technology | Anatomy & Physiology I | ANPHI14 | 12 | E | None | None |
| | Anatomy & Physiology I | ANPH124 | 12 | E | None | None |
| Clinical Technology | Anatomy & Physiology II | ANPH202 | 24 | E | Anatomy & Physiology I | None |
| - | Anatomy I | ANAYI0I | 16 | E | None | None |
| | Pharmacology II | PHAR201 | 16 | E | None | None |
| | Physiology I | PYSL101 | 16 | CA | None | None |
| Chiropractic | Anatomy I (Gross) | ANTYI12 | 16 | E | None | None |
| | Anatomy I (Histology) | ANTY 122 | 12 | E | None | None |
| | Anatomy II (Gross) | ANAT212 | 16 | E | Anatomy I | None |
| | Anatomy II (Clinical) | ANAT222 | 16 | E | Anatomy I | None |
| | Epidemiology II | EPHC201 | 16 | E | None | None |
| | General Pathology II | GPAT201 | 8 | E | Anatomy I Physiology I | None |
| | Physiology I | PHSY101 | 24 | E | None | None |
| | Physiology II | PHSI201 | 24 | E | Physiology I | None |
| | Systemic Pathology III (Mod 1) | SYPA311 | 24 | E | General Pathology II Anat- omy II Physiology II | None |
| | Systemic Pathology III (Mod 2) | SYPA321 | 16 | E | General Pathology II Anat- omy II Physiology II | None |
| Homoeopathy | Anatomy I: (Gross) | GRAN101 | 16 | E | None | None |
| | Anatomy I (Histology) | HSTL101 | 12 | E | None | None |
| | Anatomy II (Gross) | GRAN202 | 16 | E | Anatomy I | None |
| | Anatomy II (Clinical) | ANTY221 | 16 | E | Anatomy I | None |
| | Epidemiology: Immunology, Par- stelogy and Communicable Diseases | EPIP101 | 8 | CA | None | None |
| | Epidemiology: Public Health | EPPH 101 | 4 | CA | None | None |
| | General Pathology II | GPAT201 | 8 | E | Anatomy I Physiology I | None |
| | Physiology I | PHSY102 | 16 | E | None | None |
| | Physiology II: Control Systems | PHCS208 | 8 | CA | Physiology I Physics I | None |

| | Physiology II: Cardiorespiratory | PHCR201 | 8 | CA | Physiology I Physics I | None |
|------------------------------------|----------------------------------|------------|----|----|--|------|
| | Physiology II: Genitourinary | PHGU201 | 8 | CA | Physiology I Physics I | None |
| | Systemic Pathology III (Mod I) | SYPA311 | 24 | E | General Pathology II Anat- omy II Physiology II | None |
| | Systemic Pathology III (Mod 2) | SYPA321 | 16 | E | General Pathology II Anat- omy II Physiology II | None |
| Emergency Medical Care | Anatomy & Physiology I | ATPH102 | 24 | CA | None | None |
| | General Pathology II | GPTH201 | 16 | CA | Physiology II | None |
| | Pharmacology I | PHCL201 | 16 | CA | Anat. & Physiol. I | None |
| | Physiology II | PHYL201 | 24 | CA | Anat. & Physiol. I | None |
| Environmental Health | Anatomy & Physiology IA | ANPA101 | 8 | CA | None | None |
| | Anatomy & Physiology IB | ANPA 102 | 8 | CA | None | None |
| Food & Nutrition | Physiology Food I | PHFD101 | 24 | E | None | None |
| Medical Orthotics & Prosthetics | Anatomy I | ANMY101 | 20 | CA | None | None |
| | Anatomy II | ANMY201 | 12 | CA | Anatomy I | None |
| | Clinical Studies I | CLCS101 | 16 | CA | None | None |
| | Clinical Studies II | CLCS201 | 24 | CA | Clinical I | None |
| | Physiology | PYSLI0I | 12 | CA | None | None |
| | Pharmacology | PHCY101 | 12 | CA | None | None |
| Nursing Science | Anatomy & Physiology IA | ANPA I 0 I | 12 | E | None | None |
| | Anatomy & Physiology IB | ANPB101 | 12 | E | None | None |
| | Anatomy & Physiology IIA | ANPA201 | 12 | E | None | None |
| | Anatomy & Physiology IIB | ANPB201 | 12 | E | None | None |
| | Introduction to Pharmacology | INPH101 | 4 | E | None | None |
| | Pharmacology 20 I | PHMC201 | 8 | E | None | None |
| Radiography | Anatomy I | ANTMI0I | 12 | CA | None | None |
| | Anatomy II | ANTM201 | 12 | CA | Anatomy I | None |
| | Physiology IA | PYSA101 | 12 | CA | None | None |
| | Physiology IB | PYSB101 | 12 | CA | None | None |
| Somatology | Applied Biological Science III | ABSC321 | 8 | E | None | None |
| | Anatomy & Physiology I | APHY102 | 24 | E | None | None |
| | Anatomy & Physiology II | ANBT201 | 16 | E | Anat & Physio I | None |

3.3 DEPARTMENTAL INFORMATION

3.3.1. Academic Integrity

Please refer to the General Rules pertaining to academic integrity G13 (1) (0). 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 behavior, 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, DUT Main campus and in clinical placements. 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 practicals. 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.

Consult your subject 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 test assessments form the bulk of the subject course mark which determines the student's eligibility for examination entry. Assignments and short tests may also be conducted as determined by the lecturers and marks from these assessments may contribute towards the course mark.

3.3.6 General Information for Anatomy Dissection Hall

- 3.3.6.1. Under no circumstances may unauthorized 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 subjects offered by this Department.

4.1 Special Test and Condonement

No missed assessments will be condoned.

- 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 subject lecturer no later than five (5) 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 declaration that for
 unavoidable reasons it was impossible for the student to sit for the assessment.
 This certificate must be submitted to the subject 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 w.e.f. 2009/01)

5. BOOKLIST - PRESCRIBED TEXTBOOKS FOR 2017

(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 |
| Crossman, A.R.; Neary, D | Homoeo/ Chiro-(2nd yr. only) (Anatomy II) | Neuroanatomy, An illustrated colour text Churchill Livingston | Latest Edition | 1 |
| 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 at a Glance | Latest edition | 5 |
| Dreyer A, Kharwa R, Moch, S and Thandar Y | Homoeo/ Chiro/ Clin Tech./EMC/ Postgrad & Nursing Science | Pharmacology for Nurses | 4 th edition | 3? |
| Tortora, G.J. & Derrickson, B. | Food & Consumer Science/BioMed Tech/Nursing Sci- ence/Soma I/Soma II/MOP/Clin Tech I | Introduction to the Human Body | Latest edition | 2 |
| Tortora, G.J., Derrickson, B | Homoeo/ Chiro/ EH | Introduction to the Human Body | Latest edition | 2 |
| Tortora, G.J., Derrickson, B | Radiography | Principles of Anatomy and Physiology | Latest edition | 2 |
| Keith L. Moore, Anne M.R. Agur | MOP Clin Tech Radiography | Essential Clinical Anatomy | Latest Edition | 2 |
| Derrickson, B | EMC II/ Homoeo/Chiro II | Human Physiology | Latest Edition | _ |
| Underwood J, Cross, S | Homoeo/Chiro Pathology | General and Systemic | Latest edition | - |

6. SUBJECT CONTENT

NB: Students are required to read this section in conjunction with the relevant study guide.

6.1 NATIONAL DIPLOMA: BIOMEDICAL TECHNOLOGY

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
|-------------------|--|---------------------------------------|-----|
| Anatomy & | Organization and functions of all systems of the human body | Theory Tests | 20% |
| Physiology IA | Homeostatic mechanisms | Practicals (1 Spotter + 1 Assignment) | 20% |
| ANPH114 | Structure and function of cellular organelles, including the | Examination Mark | 60% |
| (Module A) | causes and cellular basis of cancer | | |
| | Role of Body tissues, including epithelial, connective, muscle | | |
| | and nervous tissues | | |
| | Cardiovascular and respiratory systems | | |
| Anatomy & | The Neuro-endocrine systems | Theory Tests | 20% |
| Physiology IB | The digestive & urinary systems | Practicals (ISpotters+ I Assignment) | 20% |
| ANPH124 | Reproductive physiology | Examination Mark | 60% |
| (Module B) | | | |

6.2.1 NATIONAL DIPLOMA: CLINICAL TECHNOLOGY

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN |
|---------------------------------------|---|---|
| Anatomy & Physiology II ANPH202 | The Nervous System inclusive of the Central & Peripheral Nervous System and Sensory Physiology The Cardiovascular System including Blood Vessels Hemodynamics The Respiratory System including Physical Aspects and Mechanics of Ventilation and Acid-Base Balance The Urinary System inclusive of Urine Production and Renal Control of Electrolyte and Acid-Base Balance The Reproductive System inclusive of the endocrine regulation of both the male and females systems as well as fertilization, pregnancy and parturition | Theory Tests 30% Practicals (Spotter + Assignment) 10% Examination Mark 60% |
| Pharmacology II PHAR201 | General Aspects of Drug Therapy 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 | Theory Tests 40% Examination Mark 60% |

6.2.2 BACHELOR OF HEALTH SCIENCES: CLINICAL TECHNOLOGY

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
|-------------------|-------------------------------|-----------------|--|
| Anatomy I | Introduction to Anatomy | CA | |
| | Thorax; Abdomen and Pelvis | Tests 100% | |
| | Limbs and Back; Neuroanatomy | | |
| | Head and Neck | | |
| Physiology | Introduction; Nervous System; | CA | |
| PYSLI0I | Cardiovascular System | Tests 100% | |
| | Respiratory System | | |
| | Renal System | | |
| | Blood | | |
| | Lymphatic & Immunity | | |
| | Reproductive System | | |
| | Gastro-intestinal system | | |

6.3. NATIONAL DIPLOMA: CHIROPRACTIC

| SI IRIECT | | | |
|----------------------------|---|--|-----------|
| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
| Anatomy I: | Introduction to Anatomy | Year Mark 40% | |
| Gross | Thorax | Examination Mark 60% | |
| ANTYII2 | Abdomen | | |
| | Pelvis | | |
| Anatomy I : His- | Introduction to Histology | Theory Tests 3 | 0% |
| tology | Primary Tissues: including epithelia, connective tissues | Practicals I | 0% |
| ANTY122 | (Binding tissues, blood, cartilage and bone), muscle and | Examination Mark 6 | 60% |
| | nervous tissue | | |
| | Histology of the Body Systems including cardiovascular, in- | | |
| | tegumentary, lymphatic organs, respiratory, digestive, uri- | | |
| | nary, endocrine & reproductive | | |
| Anatomy II: | Back | Year Mark 4 | Ю% |
| Gross | Upper Limb | | 2001 |
| ANAT212 | Lower Limb | | 0% |
| | | PAPER I: | |
| | | Theory: Back, Upper Limb and | , |
| | | Lower Limb 50% PAPER II: | • |
| | | | |
| | | Spotter: Back, Upper Limb and Lower Limb 50% | |
| Anatomy II , Clin | Naumanatan | | 10% |
| Anatomy II : Clin- ical | Neuroanatomy Head & Neck | , | 0% |
| ANAT222 | Applied Anatomy | | 3% |
| ANATZZZ | Applied Anatomy | | i% |
| | | | 0% |
| | | PAPER I: | 0/0 |
| | | Theory: Applied Anatomy, | |
| | | Head & Neck and neuroanatomy 50 | % |
| | | PAPER II | ,,, |
| | | Spotter: Applied Anatomy, | |
| | | Head & Neck and neuroanatomy 50 | % |
| Epidemiology II | Principles of Epidemiology | Theory Tests 3 | 10% |
| EPHC201 | Parasitology | Practicals I | 0% |
| | Immunology | Examination Mark 6 | 0% |
| General | Introduction to Pathology and Disease | Theory Tests 3 | 0% |
| Pathology II | Cell injury, death and necrosis | | 0% |
| GPAT201 | Amyloid | Examination Mark 6 | 60% |
| | Calcification | | |
| | Pigmentation | | |
| | Jaundice | | |
| | Oedema, fluid and electrolyte imbalance; | | |
| | Hyperaemia, congestion, haemorrhage, thrombosis, embo- | | |
| | lism, infarction | | |
| | Inflammation, healing and repair; Infection and disease | | |
| | Disorders of Growth and cancers; Effects of Radiation | | |
| | Disorders of Carbohydrate metabolism; Nutritional dis- | | |
| 1 | orders Autoimmuno disorders | | |
| Physiology I | Autoimmune disorders The Human Body | Theory Tests 2 | 16% |
| PHSY101 | The Chemical level of organisation: Basic Chemistry | | 4% |
| 71131101 | The Cellular level of organisation | | 7% 60% |
| | The Integumentary System: Skin and membranes | - Land Contract Contr | |
| | The Muscular System | | |
| | The Nervous System | | |
| | Special Senses | | |
| 1 | The Endocrine System | | |
| 1 | The Cardiovascular System | | |
| | The Lymphatic System and Body Defences | | |
| | The Respiratory System | | |
| | The Digestive System | | |
| L | U/ | | |

| | The Urinary System The Reproductive System | | |
|--------------------------------|---|-------------------------------|------------|
| Physiology II PHSI201 | Membrane and muscle physiology Cardiovascular physiology | Theory Tests Practicals | 30% 10% |
| | Respiratory physiology The nervous system The digestive system The urinary system; Endocrine physiology Reproductive physiology | Examination Mark | 60% |
| Systematic | Skin | Theory Tests | 30% |
| Pathology II | Blood Vessels | Assignments | 7% |
| Module I | Cardiovascular System | Attendance? | 3% |
| SYPA311 | Haematopoietic and Lymphoid Systems; Respiratory System | Examination Mark | 60% |
| | Renal System | | |
| | Gastrointestinal Tract & Liver, Pancreas & Biliary Tract | | |
| | Musculoskeletal System | | |
| | The Nervous System; Endocrine System | | |
| | Male Genital Tract | | |
| | Female Genital Tract and Breast | | 400/ |
| Systemic | General Aspects of Drug Therapy; | Theory Tests Examination Mark | 40% 60% |
| Pathology II – Pharmacology | Pharmacokinetics and Pharmacodynamics Administration of drugs to patients | Examination Mark | 60% |
| Module II | Administration of drugs to patients Adverse effects of drugs | | |
| SYPA321 | Drugs affecting the autonomic, somatic and sensory nerv- | | |
| 31174321 | ous 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 | | |

6.4. BACHELOR OF HEALTH SCIENCES: HOMOEOPATHY

| U.T. BACI | | |
|-------------------------------|--|----------------------------------|
| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN |
| Anatomy I: | Introduction to Anatomy | Year Mark 40% |
| Gross | Thorax | Examination Mark 60% |
| GRANI0I | Abdomen | |
| GIVATOI | Pelvis | |
| A : 1 | I. | TI T . 300/ |
| Anatomy I: | Introduction to Histology | Theory Tests 30% |
| Histology | Primary Tissues: including epithelia, connective tissues | Practicals 10% |
| ATMY122 | (Binding tissues, blood, cartilage and bone), muscle and | Examination Mark 60% |
| | nervous tissue | |
| | Histology of the Body Systems including cardiovascular, | |
| | integumentary, lymphatic organs, respiratory, digestive, | |
| | urinary, endocrine & reproductive | |
| Anatomy II: | Back | Year Mark 40% |
| Gross | Upper Limb | Examination 60% |
| GRAN202 | Lower Limb | PAPER I: |
| 010-114202 | Lower Limb | Theory: Back, Upper Limb and |
| | | Lower Limb 50% |
| | | PAPER II: |
| | | |
| | | Spotter: Back, Upper Limb and |
| | | Lower Limb 50% |
| Anatomy II: | Neuroanatomy | Theory Test 20% |
| Clinical | Head & Neck | Spotter 10% |
| CLANI0I | Applied Anatomy | Project/Assignment 5% |
| | | Class Assessments 5% |
| | | Examination 60% |
| | | PAPER I: |
| | | Theory: Applied Anatomy, |
| | | Head & Neck and neuroanatomy 50% |
| | | PAPER II |
| | | Spotter: Applied Anatomy, |
| | | Head & Neck and neuroanatomy 50% |
| Epidemiology II | Immunology | CA - Theory 80% |
| EPIP101 | Parasitology | Prac. 20% |
| EFIFIUI | Communicable Diseases | F1dC. 20/6 |
| F : 1 | Public Health | CA TI 000/ |
| Epidemiology II EPPH I 0 I | Public Health | CA - Theory 80% |
| EPPHIUI | | Assignment 20% |
| 0 15 1 1 1 | 1 | C4 T |
| General Pathology II | Introduction to Pathology and Disease | CA Tests 75% |
| GPATI01 | Cell injury, death and necrosis | Assignments 25% |
| | Amyloid | |
| | Calcification | |
| | Pigmentation | |
| | Jaundice | |
| | Oedema, fluid and electrolyte imbalance; | |
| | Hyperaemia, congestion, haemorrhage, thrombosis, em- | |
| | bolism, infarction | |
| | Inflammation, healing and repair; Infection and disease | |
| | Disorders of Growth and cancers; Effects of Radiation | |
| | Disorders of Carbohydrate metabolism; Nutritional | |
| | disorders | |
| | Autoimmune disorders | |
| | Automitiune disorders | |
| Discosi a la secol | The Harris De A | CA Theres 900/ |
| Physiology I | The Human Body | CA - Theory 80% |
| PHSY102 | The Chemical level of organisation: Basic Chemistry | Prac. 20% |
| | The Cellular level of organisation | |
| | The Integumentary System: Skin and membranes | |
| | The Muscular System | |
| | The Nervous System | |
| | Special Senses | |
| | The Endocrine System | |
| | The Cardiovascular System | |
| | | |

| Physiology II | The Lymphatic System and Body Defences The Respiratory System The Digestive System The Urinary System The Reproductive System Control Systems | CA - Theory Tests | 80% |
|--|--|--|------------------------|
| PHCS201 | | Prac. Tests | 20% |
| Physiology II | Cardiorespiratory | CA - Theory Tests | 80% |
| PHCR201 | | Prac. Tests | 20% |
| Physiology II | Genitourinary | CA - Theory Tests | 80% |
| PHGU201 | | Prac. Tests | 20% |
| Systematic Pathology II Module I SYPA311 | Skin Blood Vessels Cardiovascular System Haematopoietic and Lymphoid Systems; Respiratory System Renal System Gastrointestinal Tract & Liver, Pancreas & Biliary Tract Musculoskeletal System The Nervous System; Endocrine System Male Genital Tract Female Genital Tract and Breast | Theory Tests Assignments Attendance Examination Mark | 30% 7% 3% 60% |
| Systemic Pathology II — Pharmacology Module II SYPA321 | General Aspects of Drug Therapy; 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 | Theory Tests Examination Mark | 40% 60% |

6.5. NATIONAL CERTIFICATE: DENTAL ASSISTING

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
|-------------------|--|--------------------------------|--------------------|
| Oral | Introduction to Microbiology Micro-organisms | Theory Tests | 20% |
| Anatomy & | Bacteria | Examination Mark | 30% |
| | | EXAMINATION | 30% |
| Pathology | Viruses | | |
| OAPTI01 | Fungi | The final examination will com | |
| | Protozoa | shared paper (Pharmacology a | and Oral Anatomy). |
| | AIDS and Hepatitis | | |
| | Introduction to Pharmacology Terminology | | |
| | Pharmacokinetics | | |
| | Pharmacodynamics | | |
| | Analgesics | | |
| | Antimicrobials | | |
| | Sedative / hypnotics | | |
| | Miscellaneous Classes | | |
| | Drug Interactions | | |
| | Prescription Writing | | |

6.6. BACHELOR OF HEALTH SCIENCES: EMERGENCY MEDICAL CARE

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
|--------------------------|---|---|------|
| Anatomy & | Introduction | Theory Tests | 80% |
| Physiology I | Cells | Practicals | 20% |
| ATPHI0I | Tissues | | |
| | Reproductive System | | |
| | Respiratory System | | |
| | Cardiovascular System | | |
| | Nervous System | | |
| | Ear and Eye | | |
| | Integumentary System | | |
| | Skeletal System | | |
| | Muscular System | | |
| | Digestive System | | |
| | Urinary System | | |
| | Endocrine System | | |
| General | Introduction to Pathology and Disease | Theory Test I | 33% |
| Pathology | Cell injury, death and necrosis | Theory Test 2 | 33% |
| GPTH201 | Amyloid | Theory Test 3 | 33% |
| | Calcification | | |
| | Pigmentation | | |
| | Jaundice | | |
| | Oedema, fluid and electrolyte imbalance; | | |
| | Hyperaemia, congestion, haemorrhage, thrombosis, embo- | | |
| | lism, infarction | | |
| | Inflammation, healing and repair; Infection and disease | | |
| | Disorders of Growth and cancers; Effects of Radiation | | |
| | Disorders of Carbohydrate metabolism; Nutritional disor- | | |
| | ders | | |
| | Autoimmune disorders | | |
| Pharmacology I | General Aspects of Drug Therapy | Theory Tests | 100% |
| 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 | | |
| Physiology II | | Theory Test I | 33% |
| PHYL201 | | | 33% |
| - ' | | | 33% |
| | | <u> </u> | |
| | Renal system | | |
| | Blood | | |
| | Immunity | | |
| | Pregnancy | 1 | |
| Physiology II PHYL201 | Nervous system Muscular system Cardiovascular system Respiratory system Renal system Blood Immunity | Theory Test I Theory Test 2 Theory Test 3 | 33% |

6.7. NATIONAL DIPLOMA: ENVIROMENTAL HEALTH

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
|----------------------|--|-----------------|------|
| Anatomy & Physiology | Organisation of the body | Theory Tests | 67% |
| ANPA 101 | Homeostatic mechanisms | Practicals | 33% |
| | Structure and function of cellular organelles, including | | |
| | the causes and cellular basis of cancer | | |
| | Role of Body tissues, including epithelial, connective, | | |
| | muscle and nervous tissues | | |
| | Endocrine | | |
| A 0.01 | 71 | | 470/ |
| Anatomy & Physiology | The skin | Theory Tests | 67% |
| ANPB102 | Skeletal and muscular systems | Practicals | 33% |
| | Nervous system | | |
| | Function of blood, Cardiovascular and respiratory sys- | | |
| | tems | | |
| | The nervous system | | |
| | The digestive system | | |
| | The urinary system | | |
| | Endocrine system; Reproductive system | | |

6.8. ND: FOOD MARKETING & MANAGEMENT

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
|--------------------|------------------------------|------------------|-----|
| Physiology: Food I | Introduction; Nervous System | Theory Tests | 40% |
| PHFD101 | Cardiovascular System | Examination Mark | 60% |
| | Respiratory System | | |
| | Renal System | | |
| | Blood | | |
| | Lymphatic & Immunity | | |
| | Reproductive System | | |
| | Gastro-intestinal system | | |

6.9. BACHELOR OF HEALTH SCIENCES: MEDICAL ORTHOTICS & PROSTHETICS

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN |
|------------------|---|---|
| Anatomy I | Introduction to Anatomy | Theory: 20hrs |
| ANMY101 | Introduction to Systems: Integumentary, Skeletal, Mus- | Practical: 60hrs |
| | cular (muscle tissue, architecture of muscle), Articular, | Self-Study: 120hrs |
| | Cardiovascular and Nervous | |
| | Back, Upper limbs and Lower limbs. | There is no final examination for this module. See Study Guide for details. |
| Anatomy II | Section A: Neck - surface anatomy, superficial neck | 120 contact hours/200 notional hours |
| ANMY201 | muscles, triangles of the neck, deep structures of the | |
| | neck, root of the neck, cervical viscera, thyroid gland, | Theory: 20hrs |
| | parathyroid glands, facial planes, pharynx, larynx. | Practical: 60hrs |
| | Section B: Head —Osteology, the Face - muscles, | Self-Study: 120hrs |
| | neurovascular structures, lymphatic drainage, the Scalp, | |
| | cranial fossae and foramina (self-study), the Orbit, pa- | There is no final examination for this module. See |
| | rotid and Temporal regions, temporomandibular joint, | Study Guide for details. |
| | oral region (self-study), salivary glands, nose and parana- sal sinuses, ear (self-study). | |
| | Section C: Neuroanatomy - Embryology, cerebral | |
| | topography, brainstem and spinal cord, cerebellum, thal- | |
| | amus, epithalamus and hypothalamus, reticular for- | |
| | mation, visual, olfactory and limbic systems, cranial | |
| | nerves, blood supply of the brain. | |
| Clinical Studies | Inflammation, repair and healing. | 64 contact hours/160 notional hours |
| CLCS101 | Inflammatory diseases. | |
| | Degenerative diseases. | Theory Tests 100% |
| | Post traumatic conditions. | |
| | Metabolic disorders. | There is no final examination for this module. |
| | Circulatory disorders | See Study Guide for details. |

| Amputations Post-transmatic osteoporosis Aseptic bone necrosis. Paralysis resulting from nerve lesions. Diseases of the pelvis and hip. Diseases of the floot. Diseases of the shoulder, elbow and hand, limb deformites, skind disorders and wound repair CLCS201 Clinical Studies CLCS201 Nervous system disorders and diseases (child and aduh) (CNS and PNS) including Polio, Cerebral palsy, paraplegia and quadriplegia, azaxia. Parkinson's disease. Spinal and thoracic deformities, scoliosis, kyphosis. Diseases of the spine. Circulatory disorders. Metabolic disorders. Tumors. Degenerative diseases. Burns. Fractures: Physiology PSYL101 Physiology PSYL101 Physiology Anatomy and physiology are defined, the relationships between anatomy and physiology are explained, cells and tissues, integumentary system, muscular system, skeletal system, nervous system, special senses, endocrine system, cardiovascular system, impensative and tissues, integumentary system, muscular system, skeletal system respiratory system, digestive system, urinary system. Tumoral and this system respiratory system, impensative and tissues, integumentary system, impensative | | | 1 | |
|--|------------------|--|--------------------------------------|----------------|
| Aseptic bone necrosis. Paralysis resulting from nerve lesions. Diseases of the pelvis and hip. Diseases of the pelvis and hip. Diseases of the floot. Diseases of the shoulder, elbow and hand, limb deformites, skin disorders and wound repair CLICS201 CLICS201 All Pervous system disorders and diseases (child and adult)(CNS and PNS) including Polio, Cerebral palsy, paraplega 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 PSYL101 Anatomy and physiology are defined, the relationships between anatomy and physiology re explained, cells and dissues, integumentary system, musular system, skeletal system, nervous system, special senses, endocrine system, cardiovascular system, immunity and the lymphatic system, reproductive system, immunity and the lymphatic system, reproductive system, legistive system, urinary system, generative system, reproductive system, legistive system, urinary system, legistive system, urinary system, legistive system, urinary system, legistive system, legistive system, legistive system, urinary system, legistive sy | | Amputations | | |
| Paralysis resulting from nerve lesions. Diseases of the pelvis and hip. Diseases of the foot. Diseases of the foot. Diseases of the shoulder, elbow and hand, limb deformites, skin disorders and wound repair Clinical Studies CLCS201 Clinical Studies CLCS201 All (CNS and PNS) 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 PSYL101 Physiology PSYL101 Anatomy and physiology are defined, the relationships between anatomy and physiology re explained, cells and dissues, integumentary system, muscular system, skeletal system, nervous system, special senses, endocrine system, cardiovascular system in gently and the lymphatic system respiratory system, digestive system, urinary system, reproductive system. Pharmacology PHCY101 Pharmacology PHCY101 Pharmacodynamics' Pharmacokinetics Central nervous system Respiratory system | | | | |
| Diseases of the pelvis and hip. Diseases of the knee. Diseases of the knee. Diseases of the shoulder, elbow and hand, limb deformites, skind disorders and wound repair CLCS201 Nervous system disorders and diseases (child and adult) (CNS and PNS) including Polio, Cerebral palsy, paraplega and quadriplega, ataxia. Parkinson's disease. Spinal and thoracic deformities, scoliosis, kyphosis. Diseases of the spine. Circulatory disorders. Metabolic disorders. Turmors. Degenerative diseases. Burns. Fractures: Physiology PSYL101 Anatomy and physiology are defined, the relationships between anatomy and physiology are explained, cells and dissues, integumentary system, musular systems, skeletal system, nervous system, special senses, endocrine system. Cardiovascular system in digestive system, urinary system. Eccures: I 6hrs Practical: 32hrs There is no final examination for this module. See Study Guide for details. 96 contact hours/240 notional hours Theory Tests 75% Assignments 25% There is no final examination for this module. See Study Guide for details. 96 contact hours/240 notional hours Theory Tests 75% Assignments 25% Study Guide for details. 97 contact hours/160 notional hours Lectures: I 6hrs Case studies: I 2hrs Assignments I 21hrs Independent study Assignments I 21hrs Independent study 48hrs Assessment Assessment 6hrs Assessment 6h | | | | |
| Diseases of the knee. Diseases of the foot Diseases of the foot Diseases of the shoulder, elbow and hand, limb deformites, skin disorders and wound repair Nervous system disorders and diseases (child and adult)(CNS and PNS) 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. Metabolic disorders. Tumors. Degenerative diseases. Burns. Fractures.' Physiology PSYL101 Physiology PSYL101 Physiology | | | | |
| Diseases of the foot Diseases of the shoulder, elbow and hand, limb deformites, skin disorders and wound repair Nervous system disorders and diseases (child and adult) (CNS and PNS) 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. Metabolic disorders. Degenerative diseases. Burns. Fractures. Physiology PSYL101 Physiology PSYL101 Antomy and physiology are defined, the relationships between anatomy and physiology re explained, cells and itsues, integumentary system, muscular system, selectal system, nervous system, pervous system, seporatory system, digestive system, urinary system, selectal system respiratory system, digestive system, urinary system, reproductive system. Pharmacology PHCY101 Pharmacology Pharmacology Pharmacology Pharmacology Pharmacology Pharmacology Vitamins and mineral Anti-neoplastic drugs and immune suppressors Wound care Dermatology Poisoning and emergencies Diseases of the should plot, Cerebral palsy, park adulting Administration of this module. See Study Guide for details. Theory Tests 75% Assignments 25% There is no final examination for this module. See Study Guide for details. Totorials: 16hrs Practical: 32hrs Tutorials: 16hrs Practical: 32hrs Practical: 32hrs Tutorials: 16hrs Pract | | Diseases of the pelvis and hip. | | |
| Diseases of the shoulder, elbow and hand, limb deformites, skin disorders and wound repair CLinical Studies CLCS201 Revious system diseases (child and adult) (CNS and PNS) 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 PSTL101 Anatomy and physiology are defined, the relationships between anatomy and physiology re explained, cells and tissues, integumentary system, muscular systems, selectal system, nervous systems, special senses, endocrine system, cardiovascular system, immunity and the lymphatic system respiratory system, digestive system, urinary system, reproductive system. Pharmacology PHCY101 Pharmacology PHCY101 Basic pharmacology Pharmacodynamics' Pharmacokinetics Central nervous system Non-steroidal anti-inflammatory drugs Vaccines Cardiovascular system Haemopoleitc system Respiratory system Gastro-intestinal tract Endocrinology Vitamins and mineral Anti-neoplastic drugs and immune suppressors Wound care Dermatology Polsoning and emergencies Diseases of the should adult)(CNS and PNS) including policy. Assignments Theory Tests Theory Tests Theory Tests Assignments Theory Tests Theory Tests Assignments 96 contact hours/160 notional hours There is no final examination for this module. See Study Guide for details. Lectures: 16hrs Case studies: 16hrs Case studies: 16hrs Independent study 80hrs There is no final examination for this module. See Study Guide for details. | | Diseases of the knee. | | |
| Clinical Studies CLCS201 Clinical Studies CLCS201 CLCCS201 CLCS201 CLCCS201 CLCCCS201 CLCCS201 CLCCS201 CLCCS201 CLCCS201 CLCCS201 CLCCS201 C | | Diseases of the foot. | | |
| Clinical Studies CLCS201 Clinical Studies CLCS201 CLCCS201 CLCS201 CLCCS201 CLCCCS201 CLCCS201 CLCCS201 CLCCS201 CLCCS201 CLCCS201 CLCCS201 C | | Diseases of the shoulder, elbow and hand, limb deformi- | | |
| Clinical Studies CLCS201 Nervous system disorders and diseases (child and adult)(CNS and PNS) 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 PSYL101 Physiology Anatomy and physiology are defined, the relationships between anatomy and physiology re explained, cells and tissues, integumentary system, muscular system, skeletal system, nervous system, special senses, endocrine system, cardiovascular system, immunity and the lymphatic system respiratory system, digestive system, urinary system, reproductive system. Pharmacology PHCY101 Pharmacology PHCY101 Basic pharmacology PHarmacodynamics' Pharmacokinetics Central nervous system 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 Actional display plays of the spine. Care thours/1240 notional hours Theory Tests Theory Tests Assignments 6 contact hours/240 notional hours Theory Tests Theory Tests Assignments 96 contact hours/160 notional hours Phare is no final examination for this module. See Study Guide for details. 1 Tutorials: 1 Care studies: 1 Care studie | | ties, skin disorders and wound repair | | |
| adult)(CNŠ and PNS) 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. Turnors. Degenerative diseases. Burns. Fractures. Physiology PSYL101 Anatomy and physiology are defined, the relationships between anatomy and physiology are explained, cells and tissues, integumentary system, muscular system, skeletal system, nerous system, seveletal system, rerpoductive system, digestive system, urinary system, cardiovascular system, digestive system, urinary system, labeling to the formation of this module. See Study Guide for details. Pharmacology PHCY101 Basic pharmacology Pharmacolynamics Pharmacokinetics Central nervous system Non-steroidal anti-inflammatory drugs Vaccines Cardiovascular system Haemopoletic system Respiratory system Gastro-intestinal tract Endocrinology Vitamins and mineral Anti-neoplastic drugs and immune suppressors Wound care Dermatology Poisoning and emergencies | Clinical Studies | | 6 contact hours/240 notional h | ours |
| paraplegia and quadriplegia, ataxia. Parkinson's disease. Spinal and thoracic deformities, scoliosis, kyphosis. Diseases of the spine. Circulatory disorders. Metabolic disorders. Degenerative diseases. Burns. Fractures. Physiology PSYL101 Physiology Physiology Psysiology PSYL101 Physiology Physiology Psysiology Physiology Phys | | , | | |
| Parkinson's disease. Spinal and thoracic deformities, scoliosis, kyphosis. Diseases of the spine. Circulatory disorders. Metabolic disorders. Tumors. Degenerative diseases. Burns. Fractures. Physiology PSYL101 Physiology PSYL101 Anatomy and physiology are defined, the relationships between anatomy and physiology re explained, cells and tissues, integumentary system, muscular system, skeletal system, nervous system, special senses, endocrine system, cardiovascular system, immunity and the lymphatic system respiratory system, digestive system, urinary system, reproductive system. Pharmacology PHCY101 Basic pharmacology Pharmacodynamics' Pharmacokinetics Central nervous system Non-steroidal anti-inflammatory drugs Vaccines Cardiovascular system Respiratory system Gastro-intestinal tract Endocrinology Vitamins and mineral Anti-neoplastic drugs and immune suppressors Wound care Dermatology Poisoning and emergencies Assignments 25% There is no final examination for this module. See Study Guide for details. 72 contact hours/160 notional hours Phactical: 32hrs Tutorials: 16hrs Case studies: 16hrs Independent study 80hrs 72 contact hours/120 notional hours Pturorials: 12hrs Assignments 12hrs Assignments 12hrs Assignments 12hrs Tutorials: 12hrs Assignments 12hrs Tutorials: 12hrs Assignments 12hrs Assignments 12hrs Independent study 48hrs Assessment 6hrs Assessment 6hrs Assessment 5mall examination for this module. See Study Guide for details. | CEC3201 | | Theory Tests | 75% |
| Spinal and thoracic deformities, scoliosis, kyphosis. Diseases of the spine. Circulatory disorders. Metabolic disorders. Tumors. Degenerative diseases. Burns. Fractures: Physiology PSYL101 Physiology PSYL101 Anatomy and physiology are defined, the relationships between anatomy and physiology re explained, cells and tissues, integumentary system, muscular system, skeletal system, nervous system, special senses, endocrine system, cardiovascular system, immunity and the lymphatic system respiratory system, digestive system, urinary system, reproductive system. Pharmacology PHCY101 Pharmacology Pharmacodynamics' Pha | | | | |
| Diseases of the spine. Circulatory disorders. Metabolic disorders. Tumors. Degenerative diseases. Burns. Fractures. Physiology PSYL101 Physiology PSYL101 Anatomy and physiology are defined, the relationships between anatomy and physiology re explained, cells and tissues, integumentary system, muscular system, skeletal system, nervous system, special senses, endocrine system, cardiovascular system, immunity and the lymphatic system respiratory system, digestive system, urinary system, reproductive system. Pharmacology PHCY101 Pharmacology Pharmacodynamics' Pharmacokinetics Central nervous system Non-steroidal anti-inflammatory drugs Vaccines Cardiovascular system Haemopoietic system Gastro-intestinal tract Endocrinology Vitamins and mineral Anti-neoplastic drugs and immune suppressors Wound care Dermatology Poisoning and emergencies There is no final examination for this module. See Study Guide for details. There is no final examination for this module. See Study Guide for details. Tatorials: 16hrs Case studies: 16hrs Cace study Guide for details. There is no final examination for this module. See Study Guide for details. | | | Assignments | 23/0 |
| Circulatory disorders. Metabolic disorders. Tumors. Degenerative diseases. Burns. Fractures. Physiology PSYL101 Anatomy and physiology are defined, the relationships between anatomy and physiology re explained, cells and tissues, integumentary system, muscular system, skeletal system, nervous system, special senses, endocrine system, cardiovascular system, immunity and the lymphatic system respiratory system, digestive system, urinary system, reproductive system. Pharmacology PHCY101 Pharmacology PHCY101 Pharmacology PHCY101 Pharmacology PHCY101 Pharmacology Pharmacodynamics' Pharmacokinetics Central nervous system Non-steroidal anti-inflammatory drugs Vaccines Cardiovascular system Gastro-intestinal tract Endocrinology Vitamins and mineral Anti-neoplastic drugs and immune suppressors Wound care Dermatology Poisoning and emergencies There is no final examination for this module. See Study Guide for details. There is no final examination for this module. See Study Guide for details. There is no final examination for this module. See Study Guide for details. There is no final examination for this module. See Study Guide for details. | | | | |
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| Gastro-intestinal tract Endocrinology Vitamins and mineral Anti-neoplastic drugs and immune suppressors Wound care Dermatology Poisoning and emergencies There is no final examination for this module. See Study Guide for details. | | | Assessment | 6hrs |
| Endocrinology Vitamins and mineral Anti-neoplastic drugs and immune suppressors Wound care Dermatology Poisoning and emergencies | | | | |
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| Poisoning and emergencies | | Wound care | | |
| | | Dermatology | | |
| | | Poisoning and emergencies | | |
| | | | | |
| Anti-histamines. | | Anti-histamines. | | |

6.10. B Tech: NURSING SCIENCE

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
|-----------------|---|------------------|-----|
| Introduction to | General aspects of drug therapy including scheduling and | Theory Tests | 40% |
| Pharmacology | legislation | Examination Mark | 60% |
| INPH101 | Pharmacokinetics and Pharmacodynamics | | |
| | Adverse drug reactions including drug interactions | | |
| | Administration of drugs to patients | | |
| | Autonomic Nervous System (Pharm) | | |
| Pharmacology | Infective diseases, antimicrobial and antiparasitic drugs | Theory Tests | 40% |
| PHMC201 | Central nervous system drugs | Examination Mark | 60% |
| | Drugs that affect the respiratory system | | |
| | Drugs that affect the cardiovascular system | | |
| | Analgesics and anti-inflammatory drugs | | |
| | Drugs that affect the digestive tract | | |

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| Drugs that affect the endocrine system |
| Family planning and immunization |
| Pharmacodynamics with ref to toxicity, adverse drug re- |
| actions and interactions, drugs in pregnancy, lactation, |
| children and elderly; Adverse drug events and report- |
| ing mechanisms |

6.11. POSTGRADUATE NURSING

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
|---------------------|--|-------------------|-----|
| Primary Health Care | General Aspects of Drug Therapy | Theory Tests (3x) | 75% |
| IV | Pharmacokinetics and Pharmacodynamics | Assignment (Ix) | 25% |
| 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 | | |

6.12. BACHELOR OF HEALTH SCIENCES: RADIOGRAPHY

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
|-----------------------|--------------------------|----------------------|------|
| Anatomy I ANTM 101 | Introduction to Anatomy | Module I Module 2 | 40% |
| ANTIMO | Musculoskeletal Anatomy | I*lodule 2 | 60% |
| Anatomy II ANTM201 | Regional Anatomy | Evaluation Tests | 100% |
| Physiology IA | Introduction | Evaluation Tests | 100% |
| PYSA101 | Nervous System | | |
| | Endocrine System | | |
| Physiology IB | Cardiovascular System | Evaluation Tests | 100% |
| PYSB101 | Respiratory System | | |
| | Renal System | | |
| | Lymphatic & Immunity | | |
| | Reproductive System | | |
| | Gastro-intestinal system | | |

6.13. NATIONAL DIPLOMA: SOMATOLOGY

| SUBJECT (CODE) | LEARNING AREAS/CONTENT | ASSESSMENT PLAN | |
|--------------------------------------|--|------------------|-----|
| Applied Biological | Introduction to Pharmacology | Theory Tests | 40% |
| Sciences III | Care and Control of Medicines; Pharmacokinetics | Examination Mark | 60% |
| Module 2 | Pharmacodynamics | | |
| ABSC321 | Anti-Obesity Drugs | | |
| | Anti-microbial Drugs | | |
| | Male and Female Hormones; Oral Contraceptives | | |
| | Topical Dermatologicals and Acne | | |
| Drugs affecting the GIT, CNS and CVS | | | |
| | Non-steroidal anti-inflammatory drugs | | |
| Anatomy & Physiology I | Introduction to living organisms, Cell - cell metabolism, Tis- | Theory Tests | 30% |
| APHY102 | sues, Integumentary, Muscular, Skeletal Systems, Digestive | Practicals | 10% |
| | System, Cardiovascular System, Blood, Lymphatic System, | Examination Mark | 60% |
| | Respiratory Systems. | | |
| Anatomy & Physiology II | Neuro and senses | Theory Tests | 30% |
| ANBT201 | Endocrine and reproductive | Practicals | 10% |
| | Body defences and lymphatics | Examination Mark | 60% |
| | Urinary | | |