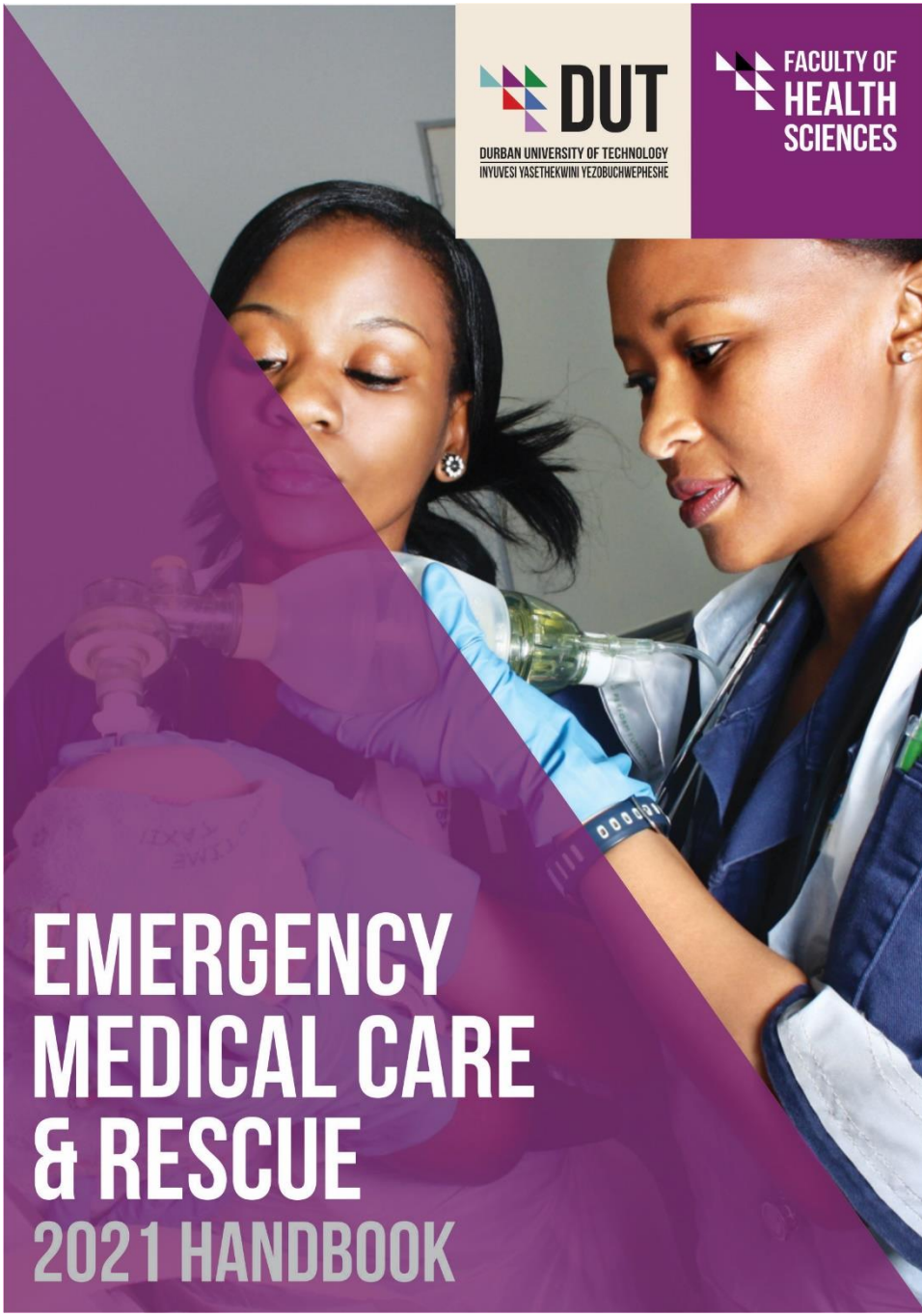
DUT
DURBAN UNIVERSITY OF TECHNOLOGY
INYUVESI YASETHEKWINI YEZOBUCHWEPHESHE

FACULTY OF HEALTH SCIENCES



EMERGENCY MEDICAL CARE & RESCUE

2021 HANDBOOK

HANDBOOK FOR 2021

FACULTY OF HEALTH SCIENCES

DEPARTMENT of
EMERGENCY MEDICAL CARE and RESCUE

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.

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.

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.

FACULTY of HEALTH SCIENCES
FACULTY VISION, MISSION, GOALS & VALUES
(November 2019 - 2021)

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 frameworks 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.)

DEPARTMENTAL VISION, MISSION & GOALS

VISION

Leaders in Emergency Care Education

MISSION

To develop quality emergency care graduates
through *excellence* in:
Teaching and learning
Research
Community engagement

VALUES

Commitment
(We are selfless and dedicated to our mission.)

Professionalism
(We value integrity, fairness, accountability and continuous development)

Ubuntu
(We are kind, respectful, courteous, considerate and compassionate to all)

- **CONTACT DETAILS**

All departmental queries to:

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Location of Department	cnr Ritson & St Thomas Roads; Ritson Road Campus

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• **STAFFING**	**Name and Qualification**
Head of Department	Dr Simpiwe Sobuwa, ND: Emergency Medical Care (CPUT); B Tech: Emergency Medical Care (CPUT); MSc: (Med) Emergency Medicine (UCT); HD: Higher Education and Training (CPUT); PhD Emergency Medicine
Lecturers	Mr Sageshin Naguran, ND: Ambulance and Emergency Care (DUT); B Tech: Emergency Medical Care (DUT); M Tech: Emergency Medical Care (DUT)
	Mrs Dagmar Mühlbauer, ND: Emergency Medical Care (UJ); B Tech: Emergency Medical Care (UJ); M Tech: Emergency Medical Care (DUT)
	Mr Keanan Reynolds, B Tech: Emergency Medical Care (UJ), MHSc: Emergency Medical Care (DUT)
	Mr Ntuthuko Chule, BHSc Emergency Medical Care (DUT), MHSc: Emergency Medical Care (DUT)
Junior Lecturers	Ms Amy Lagesse, BHSc Emergency Medical Care (DUT)
	Ms Shaylee Mariano, BHSc Emergency Medical Care (DUT)
Specialist Technician	Mr Warwick Marlin, BHSc Emergency Medical Care (DUT)
Clinical Tutor	Mrs Faith Tsiri, ND: Emergency Medical Care (DUT); B Tech: Emergency Medical Care (DUT)
Clinical Instructor	Ms RC Carter, NC: Emergency Medical Care (CPUT), Bachelor of Emergency Medical Care (CPUT)

Secretary	Mrs Leigh Meyers, ND: Office Management and Technology (DUT); B Tech: Office Management and Technology (DUT); MMSc: Administration & Information Management
Honorary Research Professor	Prof Timothy Hardcastle, MBChB (Stell); FCS (SA), Trauma (HPCSA), Phd (UKZN)
Honorary Research Fellow	Prof Ismail Mall, B.Pharm (UKZN); MMedSc (UKZN), PhD Dr Nicholas Castle, MSc: Cardiology (University of Sussex), PhD (University of London)
Honorary Research Associate	Dr Padarath (Ajeth) Gangaram, Btech: EMC (DUT), PhD (UCT)

- **DEPARTMENTAL INFORMATION AND RULES**

  - **Qualifications offered by the department**

    Learning programmes are offered in this Department that will, upon successful completion, lead to the award of the following qualifications:

Qualification	Qualification Code	Important Dates	SAQA NLRD Number
BHSc: Emergency Medical Care	BHEMC3		74471
BHSc: Emergency Medical Care	BHEMC1	Phasing out	74471
MHSc: Emergency Medical Care	MHEMC1		57209
BTECH: Emergency Medical Care	BTEMC1	Teach out 2019	63129
DPhil: Emergency Medical Care	DPEMC1		90818

- **DEPARTMENTAL INFORMATION**

..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.

..2. *Code of Conduct for Students*

Students must comply with the departmental student code of conduct at all times.

..3. *Attendance*

Please refer to student code of conduct

..4. *Health and Safety*

Students must adhere to all Health and Safety regulations while at DUT, during Medical Rescue training and while undertaking Clinical Practice. Failure to do so will be treated as a breach of the disciplinary code of conduct.

..5. *Registration with the HPCSA: Professional Board for Emergency Care*

Within two weeks of registration with the Department, students are required to register with the HPCSA: Professional Board for Emergency Care as an ECP student.

- **DEPARTMENTAL RULES**

..1. *Special Tests and Condonement*

No missed assessments will be condoned.

..1.1. 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 Head of Programme 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 Head of Programme no later than five (5) working days after the 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.

SECTION A: UNDERGRADUATE QUALIFICATION

- **BACHELOR OF HEALTH SCIENCES: EMERGENCY MEDICAL CARE (BHEMC3)**

- **PROGRAMME INFORMATION**

  The Bachelor of Health Sciences in Emergency Medical Care is registered by SAQA at NQF Level 8 of the HEQSF. The programme allows articulations into Master of Health Sciences in Emergency Medical Care and other equivalent qualifications.

  This qualification has been designed as a four-year professional BHSc degree as mandated by the Health Professions Council of South Africa: Professional Board of Emergency Medical Care that will lead to professional registration as an Emergency Care Practitioner.

..1. Purpose

To develop a competent learner in the knowledge, attitude, insight and skills required for the emergency medical care and rescue professions.

..2. Programme Structure

Codes	Modules:	HEQSF Level	Assessment	SAQA Credits	Pre-requisite subjects	Co-requisite subjects
BACHELOR OF HEALTH SCIENCES IN EMERGENCY MEDICAL CARE						
Year One						
EMCT101	Emergency Medical Care Theory I	5	CA	16	Physics, Chemistry, Anatomy I, Physiology I, Foundations of Professional Practice I	Emergency Medical Care Practical I, Clinical Practice I
EMCP101	Emergency Medical Care Practical I	5	CA	16	Physics, Chemistry, Anatomy I, Physiology I, Foundations of Professional Practice I	Emergency Medical Care Theory I, Clinical Practice I
CNLP101	Clinical Practice I	5	CA	20	Physics, Chemistry, Anatomy I, Physiology I, Foundations of Professional Practice I	Emergency Medical Care Theory I, Emergency Medical Care Practical I
AAMY101	Anatomy I	6	CA	16	Meet admission requirements	None
PHSL101	Physiology I	6	CA	16	Meet admission requirements	None
PHIS101	Physics	6	CA	8	Meet admission requirements	None
CSTY101	Chemistry	5	CA	8	Meet admission requirements	None
CSTN101	Cornerstone	5	CA	12	Meet admission requirements	None
PHYP101	Physical Preparedness I	5	CA	0	Meet admission requirements	None
FNPP101	Faculty Gen Ed modules:	5	C	12	Meet admission	None
Year Two						

DGST101	Diagnostics	7	CA	12	Anatomy I Physiology I Emergency Medical Care Theory I Emergency Medical Care Practical I Clinical Practice I	None
ERTA201	Emergency Medical Care Theory IIA	6	CA	8	Physiology I Anatomy I Emergency Medical Care Theory I Emergency Medical Care Practical I Clinical Practice I	Emergency Medical Care Practical IIA Clinical Practice IIA
ERTB201	Emergency Medical Care Theory IIB	6	CA	8	Emergency Medical Care Practical IIA Emergency Medical Care Theory IIA	Emergency Medical Care Practical IIB Clinical Practice IIB
ERPA201	Emergency Medical Care Practical IIA	6	CA	16	Physiology I Anatomy I Emergency Medical Care Theory I Emergency Medical Care Practical I Clinical Practice I	Clinical Practice IIA Emergency Medical Care Theory IIA
ERPB201	Emergency Medical Care Practical IIB	6	CA	16	Emergency Medical Care Practical IIA Emergency Medical Care Theory IIA	Clinical Practice IIB Emergency Medical Care Theory IIB
CLPA201	Clinical Practice IIA	6	CA	8	Physiology I Anatomy I Emergency Medical Care Theory I Emergency Medical Care Practical I Clinical Practice I	Emergency Medical Care Theory IIA Emergency Medical Care Practical IIA
CLPB201	Clinical Practice IIB	6	CA	12	Emergency Medical Care Theory IIA, Emergency Medical Care Practical IIB, Clinical Practice IIA	Emergency Medical Care Theory IIB Clinical Practice IIB
MDRA101	Medical Rescue IA	6	CA	4	Physical Preparedness I Clinical Practice I Emergency Medical Care Practical I Emergency Medical Care Theory I	Physical Preparedness II
MDRB101	Medical Rescue IB	6	CA	4	Physical Preparedness I Clinical Practice I Emergency Medical Care Practical I Emergency Medical Care Theory I	Physical Preparedness II
MDRC101	Medical Rescue IC	6	CA	4	Physical Preparedness I Clinical Practice I Emergency Medical Care Practical I Emergency Medical Care Theory I	Physical Preparedness II

MDRD101	Medical Rescue ID	6	CA	4	Physical Preparedness I Clinical Practice I Emergency Medical Care Practical I Emergency Medical Care Theory I	Physical Preparedness II
PSYA201	Physiology IIA	7	CA	16	Physiology I and Anatomy I	None
PSYB201	Physiology IIB	7	CA	8	Physiology IIA	None
PHYP201	Physical Preparedness II	5	CA	4	Physical Preparedness I	None
EMDL101	Faculty Gen Ed module: Ethics and Medical Law	6	CA	12	None	None
HCDK101	HIV and Communicable Diseases in KZN	6	CA	8	None	None
			Year Three			
ERTA301	Emergency Medical Care Theory IIIA	7	CA	8	Emergency Medical Care Theory IIB Emergency Medical Care Practical IIB Clinical Practice IIB Physiology IIB Pharmacology IB	Clinical Practice IIIA Emergency Medical Care Practical IIIA
ERTB301	Emergency Medical Care Theory IIIB	7	CA	8	Emergency Medical Care Theory IIIA Emergency Medical Care Practical IIIA Clinical Practice IIIA	Clinical Practice IIIB Emergency Medical Care Practical IIIB
ERPA301	Emergency Medical Care Practical IIIA	7	CA	8	Emergency Medical Care Theory IIB Emergency Medical Care Practical IIB Clinical Practice IIB Physiology IIB Pharmacology IB	Emergency Medical Care Theory IIIA Clinical Practice IIIA
ERPB301	Emergency Medical Care Practical IIIB	7	CA	8	Emergency Medical Care Practical IIIA Emergency Medical Care Theory IIIA Clinical Practice IIIA	Emergency Medical Care Theory IIIB Clinical Practice IIIB
CLPA301	Clinical Practice IIIA	7	CA	12	Emergency Medical Care Theory IIB Emergency Medical Care Practical IIB Clinical Practice IIB Physiology IIB Pharmacology IB	Emergency Medical Care Theory IIIA Emergency Medical Care Practical IIIA
CLPB301	Clinical Practice IIIB	7	CA	12	Emergency Medical Care Theory IIIA Emergency Medical Care Practical IIIA Clinical Practice IIIA	Emergency Medical Care Theory IIIB Emergency Medical Care Practical IIIB

PHMA101	Pharmacology 1A	7	CA	8	Physiology 11 Emergency Medical Care Theory II Emergency Medical Care Practical 11 Clinical Practice II	None
MDRA201	Medical Rescue IIA	7	CA	4	Physical Preparedness II Emergency Medical Care Theory IIB Emergency Medical Care Practical IIB Clinical Practice IIB Medical Rescue IA, IB, IC and ID	Physical Preparedness III
MDRB201	Medical Rescue IIB	7	CA	4	Physical Preparedness II Emergency Medical Care Theory IIB Emergency Medical Care Practical IIB Clinical Practice IIB Medical Rescue IA, IB, IC and ID	Physical Preparedness III
MDRC201	Medical Rescue IIC	7	CA	4	Physical Preparedness II Emergency Medical Care Theory IIB Emergency Medical Care Practical IIB Clinical Practice IIB Medical Rescue IA, IB, IC and ID	Physical Preparedness III
MDRD201	Medical Rescue IID	7	CA	4	Physical Preparedness II Emergency Medical Care Theory IIB Emergency Medical Care Practical IIB Clinical Practice IIB Medical Rescue IA, IB, IC and ID	Physical Preparedness III
GPTA101	General Pathology IA	7	CA	8	Emergency Medical Care Theory IIB Emergency Medical Care Practical IIB Clinical Practice IIB Physiology IIB	None
RSHM101	Research Methodology	7	CA	8	None	None
RPSL101	Research Proposal	7	CA	8	Research Methodology	None
PHYP301	Physical Preparedness III	5	CA	4	Physical Preparedness II	None
CMEP101	Community Engagement Project	7	CA	8	None	None
EDTC102	Faculty Gen Ed module: Educational Techniques	7	CA	12	None	None
ERTA401	Emergency Medical Care Theory IVA	8	CA	8	Emergency Medical Care Theory IIIB Emergency Medical Care Practical IIIB Clinical Practice IIIB General Pathology IB	Emergency Medical Care Practical IVA Clinical Practice IVA

ERTB401	Emergency Medical Care Theory IVB	8	CA	8	Emergency Medical Care Theory IIIB Emergency Medical Care Practical IIIB Clinical Practice IIIB General Pathology IB	Emergency Medical Care Practical IVB Clinical Practice IVB
ERPA401	Emergency Medical Care Practical IVA	8	CA	8	Emergency Medical Care Theory IIIB Emergency Medical Care Practical IIIB Clinical Practice IIIB General Pathology IB	Emergency Medical Care Theory IVA Clinical Practice IVA
ERPB401	Emergency Medical Care Practical IVB	8	CA	8	Emergency Medical Care Theory IIIB Emergency Medical Care Practical IIIB Clinical Practice IIIB General Pathology IB	Clinical Practice IVB Emergency Medical Care Theory IVB
CLPA401	Clinical Practice IVA	8	CA	12	Emergency Medical Care Theory IIIB Emergency Medical Care Practical IIIB Clinical Practice IIIB General Pathology IB	Emergency Medical Care Theory IVA Emergency Medical Care Practical IVA
CLPB401	Clinical Practice IVB	8	CA	16	Emergency Medical Care Theory IIIB Emergency Medical Care Practical IIIB Clinical Practice IIIB General Pathology IB	Emergency Medical Care Theory IVB Emergency Medical Care Practical IVB
MDRA301	Medical Rescue IIIA	8	CA	4	Physical Preparedness III Emergency Medical Care Theory IIIB Emergency Medical Care Practical IIIB Clinical Practice IIIB Medical Rescue IIA, IIB, IIC and IID	Physical Preparedness IV
MDRB301	Medical Rescue IIIB	8	CA	4	Physical Preparedness III Emergency Medical Care Theory IIIA & IIIB Emergency Medical Care Practical IIIA & IIIB Clinical Practice IIIA & IIIB Medical Rescue IIA, IIB, IIC and IID	Physical Preparedness IV
MDRC301	Medical Rescue IIIC	8	CA	4	Physical Preparedness III Emergency Medical Care Theory IIIB Emergency Medical Care Practical IIIB Clinical Practice IIIB Medical Rescue IIA, IIB, IIC and IID	Physical Preparedness IV
MDRD301	Medical Rescue IIID	8	CA	4	Physical Preparedness III Emergency Medical Care Theory IIIB Emergency Medical Care Practical IIIB Clinical Practice IIIB Medical Rescue IIA, IIB, IIC and IID	None
RPJT101	Research Project IV	8	CA	20	Research Proposal	None
Wwrk101	World of Work	5	CA	8	None	None

MNTP101	Faculty Gen Ed module: Management Practice	8	CA	12	None	None
PHLC101	Primary Health Care I	8	CA	12	Emergency Medical Care Theory IIIA & IIIB Emergency Medical Care Practical IIIA & IIIB Clinical Practice IIIA & IIIB	None
PHYP401	Physical Preparedness IV	5	CA	4	Physical Preparedness III	None

HEQSF = Higher Education Qualifications Sub-Framework……..SAQA = South African Qualifications Authority ……Co-requisite means a module that a student must take simultaneously to the listed module**……Prerequisite means** a module that a student must pass before registering for the listed module**….**

CA = Continuous Assessment

- **Programme Rules**

..*1*. Minimum Admission Requirements

To register for the BHSc: Emergency Medical Care the applicant must have a minimum of **30 points** (not including Life Orientation).

The applicant must pass the following departmental evaluations:

- Medical Fitness Evaluation
- Physical Fitness Evaluation
- Environmental

In addition, Placement test/s will be conducted and will be used for general academic information

The minimum admission requirement for holders of the National Senior Certificate (NSC) with a Bachelor Degree endorsement must include the following subjects at the stated ratings.

Compulsory Subjects	**NSC Rating**
English	4
Mathematics	4
Life Science and / or Physical Science	4

The minimum admission requirement for holders of the Senior Certificate (SC) is matriculation exemption with the following subjects at the stated ratings.

Compulsory Subjects	**HG**	**SG**
English	D	B
Mathematics	D	B
Biology AND / OR Physical Sciences	D	B

..1.1. Admission Requirements based upon Work Experience, Age and Maturity and Recognition of Prior Learning (RPL)

The DUT general rules G7 (3) and G7 (8), respectively apply.

..1.2. Admission of International Students

The DUT's Admissions Policy for International Students, and General Rules G4 and G7 (5) apply. *(Approved: Senate 29/08/2012)*

..2. Minimum Duration of Study

With reference to a Bachelors Degree at NQF Level 8, the minimum duration for this programme will be four (4) years of registered study and the maximum duration will be six (6) years of registered study, including any periods of Clinical Practice.

..3. Selection Criteria

Acceptance into the programme is limited to 30 places. As more qualifying applications are received than can be accommodated, the following selection process will determine placement in the programme:

- All applicants must apply through the Central Applications Office (CAO).
- Initial shortlisting for selection is based on the applicant's academic performance in Grade 12 (Grade 11, or Grade 12 trial marks, will be used for current matriculants).
- CAO applications that meet the minimum admission requirement will be invited to undergo physical fitness and medical assessments.
- Applicants are required to write a placement test.
- Provisional acceptance is given to selected applicants awaiting National Senior Certificate (NSC) results. If the final Grade 12 NSC results do not meet the minimum entrance requirements, this provisional acceptance will be withdrawn.
- Applicants whose application has been declined due to poor academic achievement in Grade 11 may reapply to the programme should they be able to show improved academic performance in the final Grade 12 examinations. Those applicants who wish to reapply should immediately notify the programme of their intention to reapply. In order for the application to be reconsidered, the applicant must submit the final Grade 12 results to the Department as soon as these results are available.

..4. Assessments and Moderation

The continuous (ongoing) assessment method is used for most modules in the

programme. As such, there are no final examinations, except for Management Practice. The results for these subjects are determined through a weighted combination of assessments, which includes theory, practical and Viva Voce assessments; individual and group assignments/projects; written and oral presentations; portfolios and OSCEs and physical assessments. Students are encouraged to work steadily through the period of registration in order to achieve the highest results possible. Assessments are listed under each subject at the back of this handbook. Moderation follows the DUT assessment policy and assessment guidelines. Detailed information can be found in the relevant subject study guides.

..5. Special Tests and Condonement

- If an assessment is missed due to medical reasons, the medical certificate / sick note must reach the relevant year coordinator or responsible lecturer within 5 working days after return to campus. This is solely the responsibility of the student.
- Assignments or case studies handed in after the submission date will be penalized (this includes both hard and electronic copies). Ten percent of the mark awarded will be subtracted for each **calendar day** that the assignment or case study is submitted late. This will be done up to a **maximum of five calendar days** (50%) thereafter the assignment or case study will not be accepted and a mark of zero will be awarded. All assignments and case studies must be submitted through Turnitin. Please check the relevant study for the maximum allowed percentage for the similarity index.

..1. Re-registration

In addition to Rule G16 of the General Handbook the following rules apply:

- A student returning to the programme after a break of one year or longer will be required to pass the medical and physical fitness evaluations before re-admission is allowed.
- Students who are absent from group evaluations will be required to complete these evaluations in the following registration period.
- A student must be successful in a Module at the lower level before progressing to the next level.

..2. Progression Rules

Students are encouraged to apply themselves to their learning and strive for the best academic results possible in order to adequately prepare themselves for their future careers, and to maximize possible employment opportunities. The BHSc: Emergency Medical Care mainly comprises of modules with no final

examination. As such pass requirements are as follows (as applicable):

- The Module mark will comprise of all the marks generated during the course of the Module, in the ratio specified in the Study Guide.
- A minimum of 50% is required to pass the Module.
- As rescue skills are performed on real patients, in the real-world setting, a sub-minimum of 100% will apply to all OSCE evaluations (i.e. all levels of Medical Rescue Modules).
- A sub-minimum of 50% is required for the theory component of all Modules.
- A sub-minimum of 50% is required for the practical component of all Modules.

4.2.8 Exclusion Rules

A first-year student who fails three (3) or more Modules with a combined final mark average of less than 40% is not permitted to re-register in the Department of Emergency Medical Care and Rescue.

4.2.9 Interruption of Studies

Should a student interrupt their studies by more than three (3) years, the student will need to apply to the department for permission to reregister, will need to prove currency of appropriate knowledge prior to being given permission to reregister and pass the departmental medical and physical evaluations.

4.2.10 Student Appeals

4.2.11 Subject content

Subject Name (code)	Learning areas / content	Assessment Plan
Year 1		
FACULTY GEN ED MODULES: FOUNDATIONS OF PROFESSIONAL PRACTICE (FNPP101)	Principles of Primary Health Care Social Determinants of Health Healthcare in South Africa National Health Insurance National Core Standards Role of Professional Bodies and Associations in Health Care Continuous Professional Development for Health Care Professionals Professionalism Improving system Quality Academic skills Computer literacy Introduction to Emergency Medical Services EMS Communications EMS Vehicles Stress and Effects Self-Protection Primary Health Care	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
CORNERSTONE 101 (CSTN101)	Proficiency and Competencies Innovation Social Responsibility Personal Development	A weekly blog written by Each Student 20% Tutorial attendance 10% Visual artefact 15% Written report 30% Oral presentation 15% Peer assessment 10%
EMERGENCY MEDICAL CARE I THEORY (EMCT101)	Introduction to Emergency Care Basic Airway Management Oxygenation and Ventilation Cardiopulmonary Resuscitation Electrophysiology An overview of Trauma Kinematics of Trauma Patient Handling Fracture management & Haemorrhage Control Patient handling Spinal immobilisation Maxillo-facial trauma Soft-tissue emergencies Musculoskeletal emergencies	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

EMERGENCY MEDICAL CARE I PRACTICAL (EMCP101)	Introduction to Emergency Care Basic Airway Management Oxygenation and Ventilation Cardiopulmonary Resuscitation Electrophysiology An overview of Trauma Kinematics of Trauma Patient Handling Fracture management & Haemorrhage Control Patient handling Spinal immobilisation Maxillo-facial trauma Soft-tissue emergencies Musculoskeletal emergencies s	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
ANATOMY I (AAMY101)	Anatomical Terminology Thorax Abdomen & Pelvis Limb and Back Anatomy Neuroanatomy Head and Neck Anatomy	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHYSIOLOGY I (PHSL101)	Cells and tissues Integumentary system Muscular system Skeletal system Nervous system Special senses Endocrine system Cardiovascular system Immunity and the Lymphatic system Blood Respiratory system Digestive system Urinary system Reproductive system	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

CHEMISTRY (CSTY101)	Introduction to chemistry Measurements Energy and Matter Atoms and Elements Compounds and their bonds Chemical Reactions and Quantities Gases Solutions Acids and Bases Nuclear Radiation Alkanes and Cycloalkanes Unsaturated hydrocarbons Organic Compounds with Oxygen and Sulphur Carboxylic acid and Esters Amines and Amides	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHYSICS I (PHIS101)	MECHANICS Fundamental Units & Dimensional Analysis Vectors and Scalars One Dimension Kinematics Newton's Laws of Motion Work, Energy & Power Impulse and Momentum Rotational Dynamics PROPERTIES OF MATTER Phases of Matter Elasticity Density and Specific Gravity Pressure in Fluids Atmospheric Pressure and Gauge Pressure Pascal's Principle Buoyancy and Archimedes' Principle Surface Tension Capillary Action Viscosity Poiseuille's Law	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHYSICAL PREPAREDNESS I (PHYP101)	Physical strength Endurance Speed Cardiovascular fitness Body weight Power to weight ratio Swimming proficiency	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
CLINICAL PRACTICE I (CNLP101)	Emergency Medical Service (EMS) operational systems Professional practice Emergency medical care Documentation and record keeping Transportation of the ill/injured patient	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

Year 2		
FACULTY GEN ED MODULES: ETHICS AND MEDICAL LAW (EMDL101)	Professional ethics International ethics principles Professional body and National Health requirements Scope of practice Multidisciplinary and interdisciplinary interactions Legal aspects of medical care Applications in authentic settings	Theory tests 60% Projects/Case Studies/ Assignments 40%
HIV AND COMMUNICABLE DISEASES IN KZN (HCDK101)	Epidemiology of HIV, TB and STIs globally, in sub-Saharan Africa, South Africa and KZN HIV infection, transmission and prevention Psychological issues of HIV and TB Module structured around themes: Stigma Disclosure Rights Communication Facilitation Advocacy	E-learning activities 30% Critical reflective diary 20% Community report 50%
DIAGNOSTICS (DGST101)	Patient interaction and history taking General survey and vital signs The Skin Head and neck Thorax and lungs Cardiovascular system Breast and Axillae The Abdomen The male genitalia and hernias The female genitalia The pregnant women The anus, rectum and prostate The peripheral nervous system The musculoskeletal system The nervous system Assessment of children and adolescents	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE THEORY IIA (ERTA201)	Advanced Airway Management I Cardiovascular Emergencies Respiratory emergencies Chest trauma Shock Syndrome Venous access and medication administration	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE THEORY IIB (ERTB201)	Obstetric emergencies Abdominal trauma Gastro-intestinal emergencies Genitourinary emergencies Immune system emergencies Endocrine emergencies	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE PRACTICAL IIA (ERPA201)	Advanced Airway Management I Cardiovascular Emergencies Respiratory emergencies Chest trauma Shock Syndrome Venous access and medication administration	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE PRACTICAL IIB (ERPB201)	Obstetric emergencies Abdominal trauma Gastro-intestinal emergencies Genitourinary emergencies Immune system emergencies Endocrine emergencies	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

MEDICAL RESCUE IA (MDRA101)	Rope rescue techniques Physics applied to rope rescue Incident Management Systems – tactical level	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IB (MDRB01)	Scene and vehicle stabilization, extrication techniques, patient management and removal	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IC (MDRC101)	Introduction to fire, search and rescue	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE ID (MDRD101)	Introduction to industrial and agricultural rescue	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHYSIOLOGY IIA (PSYA201)	The Cardiovascular System and Blood The Respiratory Physiology Urinary System	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHYSIOLOGY IIB (PSYB201)	Nervous System Special senses Endocrine System Reproduction	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHARMACOLOGY IA (PHMA101)	General aspects of drug therapy Pharmacokinetics Pharmacodynamics Administration of drugs to patients Adverse effects of drugs Autonomic, somatic and sensory nervous systems Analgesics and anti-inflammatories	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHARMACOLOGY IB (PHMB101)	Antimicrobials and other anti-infectives Drugs affecting the CNS Drugs affecting the CVS Haemopoetic drugs Hormones and Hormone antagonists Antihistamines Respiratory Drugs GIT Drugs Poisoning and emergency drug treatment	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
CLINICAL PRACTICE IIA (CLPA201)	Emergency medical service operational systems Professional practice Emergency medical care Coronary Care Intensive Care Documentation and record keeping Transportation of the ill/injured patient	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
CLINICAL PRACTICE IIB (CLPB201)	Emergency medical service operational systems Professional practice Emergency medical care Coronary Care Intensive Care Documentation and record keeping Transportation of the ill/injured patient	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHYSICAL PREPAREDNESS II (PHYP201)	Physical strength Endurance Speed Cardiovascular fitness Body weight Power to weight ratio Swimming proficiency	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
Year 3		

FACULTY GEN ED MODULES: EDUCATIONAL TECHNIQUES (EDTC102)	Introduction to education techniques Learning theories Facilitation and communication skills Learning programme planning Learner motivation and engagement Learning material Assessment and moderation Management E-learning and Blackboard Quality assurance	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
COMMUNITY ENGAGEMENT PROJECT (CMEP101)	The principles of community engagement Working in groups (being an effective team player) Guidelines for undertaking a community engagement project The community as a main factor in community engagement Skills for community engagement Ethical issues in community engagement Planning a community engagement project Implementing a community engagement project Evaluating a community engagement project	Project portfolio 50% Presentation 50%
EMERGENCY MEDICAL CARE THEORY IIIA (ERTA301)	Advanced Airway Management II Mechanical Ventilation Respiratory Emergencies	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE THEORY IIIB (ERTB301)	Endocrine Emergencies Toxicology Gastroenterology Urology	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE PRACTICAL IIIA (ERPA301)	Advanced Airway Management II Mechanical Ventilation Respiratory Emergencies	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE PRACTICAL IIIB (ERPB301)	Endocrine Emergencies Toxicology Gastroenterology Urology	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IIA (MDRA201)	Rope rescue techniques Patient management and removal Introduction to the Incident Management System (IMS)	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IIB (MDRB201)	Introduction to Aviation Rescue	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IIC (MDRC201)	Introduction to the wilderness environment Camp craft Navigation and survival techniques	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IID (MDRD201)	Aquatic rescue which consists of the following components: surface water rescue, swift water rescue and small boat handling	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

GENERAL PATHOLOGY IA (GPTA101)	Introduction to pathology and disease Disease at cellular level: cell injury, death, necrosis Amyloid Calcification Pigmentation Jaundice Fluid disturbances (oedema and electrolyte imbalances) Haemodynamic derangements (hyperaemia, congestion, haemorrhage, thrombosis, embolism, infarction)	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
GENERAL PATHOLOGY IB (GPTB101)	Inflammation, healing and repair Infection and disease Disorders of growth and neoplasia Disorders of Carbohydrate metabolism Nutritional disorders Effect of radiation Autoimmune disorders	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
RESEARCH METHODOLOGY I (RSHM101)	Introduction to research methodology Research and theory Ethical considerations in the conduct of health sciences research Overview of the research process Selecting or identifying research problems The literature review Refining and defining the research question or formulating a hypothesis and preparing a research proposal Quantitative research Non-traditional and qualitative research designs Sampling Data collection Data quality Data analysis Research reports and report evaluation	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
RESEARCH PROPOSAL (RPSL101)	Ethical considerations in the conduct of health sciences research Overview of the research process Selecting or identifying research problems The literature review Refining and defining the research question or formulating a hypothesis and preparing a research proposal Quantitative research Non-traditional and qualitative research designs Sampling Data collection Data quality Data analysis Research reports and report evaluation	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
CLINICAL PRACTICE IIIA (CLPA301)	Emergency medical service operational systems Professional practice Emergency medical care Coronary care Intensive care Theatre, advanced airway and peri-operative surgical care Documentation and record keeping Transportation of the ill/injured patient	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

CLINICAL PRACTICE IIIB (CLPB301)	Emergency medical service operational systems Professional practice Emergency medical care Coronary care Intensive care Theatre, advanced airway and peri-operative surgical care Documentation and record keeping Transportation of the ill/injured patient	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHYSICAL PREPAREDNESS III (PHYP301)	Physical strength Endurance Speed Cardiovascular fitness Body weight Power to weight ratio Swimming proficiency	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

Year 4		
FACULTY GEN ED MODULES: MANAGEMENT PRACTICE (MNTP101) OR PERSONAL AND PROFESSIONAL DEVELOPMENT IV (PFDV401)	 Principles of management New public sector management Managing equity in the health system Project management Organisational development and re-engineering the health system Managing for change in the health system Human resource management Strategic resource management Motivation and leadership OR Life line counselling course Goal setting and personal organisation Introduction to Research writing	This module is based on continuous assessment. Please refer to the module study guide for assessment details. This module is based on continuous assessment. Please refer to the module study guide for assessment details.
WORLD OF WORK (WWRK101)	Traditional and Modern CV Writing Job searching/applications/Interviewing Body language and Verbal communication Organisational Aspects Business Etiquette Project Management/Meetings Technical Report Writing Productivity/Quality/Health & Safety in the Workplace Computer and Technology Applications Interpersonal Skills Problem Identification & Solving Power & Conflict Management Planning	Written tests 60% Assignment (individual) 30% Class work: attendance; Graduate attributes 10%
EMERGENCY MEDICAL CARE THEORY IVA (ERTA402)	Neonatology Paediatrics	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE THEORY IVB (ERTB402)	Intensive Care Transfers Thrombolysis Aeromedical Care and Evacuation Gynaecology Obstetrics	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE PRACTICAL IVA (ERPA402)	Neonatology Paediatrics	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE PRACTICAL IVB (ERPB402)	Intensive Care Transfers Thrombolysis Aeromedical Care and Evacuation Gynaecology Obstetrics	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

RESEARCH PROJECT IV (RPJT102)	Planning a research proposal Conducting research Research ethics Writing a research article Oral defence of research Use of tables and figures in a research report Referencing	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
CLINICAL PRACTICE IVA (CLPA401)	Emergency medical service operational systems Professional practice Emergency medical care Coronary care Intensive care Theatre, advanced airway and peri-operative surgical care Documentation and record keeping Transportation of the ill/injured patient	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
CLINICAL PRACTICE IVB (CLPB401)	Emergency medical service operational systems Professional practice Emergency medical care Coronary care Intensive care Theatre, advanced airway and peri-operative surgical care Documentation and record keeping Transportation of the ill/injured patient	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IIIA (MDRA301)	Introduction to confined space rescue, confined space hazard control Atmospheric monitoring & ventilation, self-contained/supplied air breathing apparatus Patient management and removal, physics applied to confined space rescue	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IIIB (MDRB301)	Theory of trench rescue, trench rescue safety, trench incident management Patient management and removal, physics applied to trench rescue	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IIIC (MDRC301)	Overview of structural collapse rescue theory of emergency building shoring Structural collapse incident management, patient management and removal	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IIID (MDRD301)	Introduction to HazMat Rescue Properties of Hazardous Materials Personal Protective Equipment Recognition of Hazardous Materials Risk Assessment Incident Command Tactical and Defensive Control Strategies Decontamination	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PRIMARY HEALTH CARE I (PHLC101)	Primary Health Care Approaches Health Care Systems National Health Insurance Patterns of Health Disease Health Promotion Social Determination of Health	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHYSICAL PREPAREDNESS IV (PHYP401)	Physical strength Endurance Speed Cardiovascular fitness Body weight Power to weight ratio Swimming proficiency	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

5. BACHELOR OF HEALTH SCIENCES: EMERGENCY MEDICAL CARE (BHEMC1) (Phasing out)

5.1 PROGRAMME INFORMATION

This qualification has been designed as a four-year professional BHSc degree as mandated by the Health Professions Council of South Africa: Professional Board of Emergency Medical Care that will lead to professional registration as an Emergency Care Practitioner.

5.1.1 Purpose

5.1.2 Programme Structure

Codes	Modules:	HEQSF Level	Assessment Type (CA/E)	SAQA Credits	Pre-requisite subjects	Co-requisite subjects
BACHELOR OF HEALTH SCIENCES IN EMERGENCY MEDICAL CARE						
Year One						
FDPP101	Foundations of Professional Practice I		CA	10	None	None
EMCA101	Emergency Medical Care IA		CA	15	None	Clinical Practice I
EMCB101	Emergency Medical Care IB		CA	15	None	Emergency Medical Care IA Clinical Practice I
MRSA101	Medical Rescue IA		CA	15		Medical Rescue IB
MRSB101	Medical Rescue IB		CA	15		Medical Rescue IA
ATPH102	Anatomy and Physiology I		CA	*20*	*None*	None
BSCN101	Basic Sciences I		CA	10	None	None
CNLP101	Clinical Practice I		CA	30	None	Emergency Medical Care IA & IB
Year Two						
EMCA201	Emergency Medical Care IIA		CA	15	Emergency Medical Care IA & IB Clinical Practice I Anatomy & Physiology I	Clinical Practice II
EMCB201	Emergency Medical Care IIB		CA	15	Emergency Medical Care IA and IB Clinical Practice I Anatomy & Physiology I	Emergency Medical Care IIA Clinical Practice II

MRSA201	Medical Rescue IIA		CA	15	Medical Rescue IA & IB	Medical Rescue IIB
MRSB201	Medical Rescue IIB		CA	15	Medical Rescue IA & IB	Medical Rescue IIA
PHYL201	Physiology II		CA	20	Anatomy and Physiology I	None
PHCL201	Pharmacology II		CA	20	Anatomy and Physiology I	None
CNLP201	Clinical Practice II		CA	30	Emergency Medical Care IA & IB and Clinical Practice I	Emergency Medical Care IIA & IIB
Year Three						
EMCA301	Emergency Medical Care IIIA		CA	15	Emergency Medical Care IIA & IIB and Clinical Practice II	Clinical Practice III
EMCB301	Emergency Medical Care IIIB		CA	15	Emergency Medical Care IIA & IIB and Clinical Practice II	Emergency Medical Care IIIA Clinical Practice III
MRSA301	Medical Rescue IIIA		CA	15	Medical Rescue IIA & IIB	Medical Rescue IIIB
MRSB301	Medical Rescue IIIB		CA	15	Medical Rescue IIA & IIB	Medical Rescue IIIA
GPTH201	General Pathology II		CA	20	Physiology II	None
RSMG102	Research Methodology I		CA	20	None	None
CNLP301	Clinical Practice III		CA	30	Emergency Medical Care IIA & IIB and Clinical Practice II	Emergency Medical Care IIIA & IIIB
Year Four						
EMCA402	Emergency Medical Care IVA		CA	15	Emergency Medical Care IIIA & IIIB and Clinical Practice III	Clinical Practice IV
EMCB402	Emergency Medical Care IVB		CA	15	Emergency Medical Care IIIA & IIIB and Clinical Practice III	Emergency Medical Care IVA Clinical Practice IV
RPJT402	Research Project IV		CA	30	Research Methodology I	None
MNGP102	Management Practice I		E	20	None	None
EDTC102	Educational Techniques I		CA	20	None	None
CNLP401	Clinical Practice IV		CA	30	Emergency Medical Care IIIA & IIIB and Clinical Practice III	Emergency Medical Care IVA & IVB

HEQSF = Higher Education Qualifications Sub-Framework……..SAQA = South African Qualifications Authority ……Co-requisite means a module that a student must take simultaneously to the listed module**……Prerequisite means** a module that a student must pass before registering for the listed module**….**

CA = Continuous Assessment

5.2 Programme Rules

5.2.1Minimum Admission Requirements

To register for the BHSc: Emergency Medical Care the applicant must have a minimum of **30 points** (not including Life Orientation).

The applicant must pass the following departmental evaluations:

- Medical Fitness Evaluation
- Physical Fitness Evaluation

In addition, Placement test/s will be conducted and will be used for general academic information

The minimum admission requirement for holders of the National Senior Certificate (NSC) with a Bachelor Degree endorsement must include the following subjects at the stated ratings.

Compulsory Subjects	**NSC Rating**
English	4
Mathematics	4
Life Science and / or Physical Science	4

The minimum admission requirement for holders of the Senior Certificate (SC) is matriculation exemption with the following subjects at the stated ratings.

Compulsory Subjects	**HG**	**SG**
English	D	B
Mathematics	D	B
Biology AND / OR Physical Sciences	D	B

5.2.1.1 Admission Requirements based upon Work Experience, Age and Maturity and Recognition of Prior Learning (RPL)

The DUT general rules G7 (3) and G7 (8), respectively apply.

5.2.1.2 Admission of International Students

The DUT's Admissions Policy for International Students, and General Rules G4 and G7 (5) apply. *(Approved: Senate 29/08/2012)*

5.2.2 Minimum Duration of Study

With reference to a Bachelors Degree at NQF Level 8, the minimum duration for this programme will be four (4) years of registered study and the maximum duration will be six (6) years of registered study, including any periods of Clinical Practice.

5.2.3 Selection Criteria

Acceptance into the programme is limited to 30 places. As more qualifying applications are received than can be accommodated, the following selection

process will determine placement in the programme:

- All applicants must apply through the Central Applications Office (CAO).
- Initial shortlisting for selection is based on the applicant's academic performance in Grade 12 (Grade 11, or Grade 12 trial marks, will be used for current matriculants).
- CAO applications that meet the minimum admission requirement will be invited to undergo physical fitness and medical assessments.
- Applicants are required to write a placement test.
- Provisional acceptance is given to selected applicants awaiting National Senior Certificate (NSC) results. If the final Grade 12 NSC results do not meet the minimum entrance requirements, this provisional acceptance will be withdrawn.
- Applicants whose application has been declined due to poor academic achievement in Grade 11 may reapply to the programme should they be able to show improved academic performance in the final Grade 12 examinations. Those applicants who wish to reapply should immediately notify the programme of their intention to reapply. In order for the application to be reconsidered, the applicant must submit the final Grade 12 results to the Department as soon as these results are available.

5.2.4 Assessments and Moderation

The continuous (ongoing) assessment method is used for most modules in the programme. As such, there are no final examinations, except for Management Practice. The results for these subjects are determined through a weighted combination of assessments, which includes theory, practical and Viva Voce assessments; individual and group assignments/projects; written and oral presentations; portfolios and OSCEs and physical assessments. Students are encouraged to work steadily through the period of registration in order to achieve the highest results possible. Assessments are listed under each subject at the back of this handbook. Moderation follows the DUT assessment policy and assessment guidelines. Detailed information can be found in the relevant subject study guides.

5.2.5 Special Tests and Condonement

- If an assessment is missed due to medical reasons, the medical certificate / sick note must reach the relevant year coordinator or responsible lecturer within 5 working days after return to campus. This is solely the responsibility of the student.
- Assignments or case studies handed in after the submission date will be penalized (this includes both hard and electronic copies). Ten percent of the mark awarded will be subtracted for each **calendar day** that the assignment or case study is submitted late. This will be done up to a **maximum of five calendar days** (50%) thereafter the assignment or case study will not be accepted and a

mark of zero will be awarded. All assignments and case studies must be submitted through Turnitin. Please check the relevant study for the maximum allowed percentage for the similarity index.

5.2.6 Re-registration

In addition to Rule G16 of the General Handbook the following rules apply:

- A student returning to the programme after a break of one year or longer will be required to pass the medical and physical fitness evaluations before re-admission is allowed.
- Students who are absent from group evaluations will be required to complete these evaluations in the following registration period.
- A student must be successful in a Module at the lower level before progressing to the next level.

5.2.7 Progression Rules

Students are encouraged to apply themselves to their learning and strive for the best academic results possible in order to adequately prepare themselves for their future careers, and to maximize possible employment opportunities. The BHSc: Emergency Medical Care mainly comprises of modules with no final examination. As such pass requirements are as follows (as applicable):

- The Module mark will comprise of all the marks generated during the course of the Module, in the ratio specified in the Study Guide.
- A minimum of 50% is required to pass the Module.
- As rescue skills are performed on real patients, in the real-world setting, a sub-minimum of 100% will apply to all OSCE evaluations (i.e. all levels of Medical Rescue Modules).
- A sub-minimum of 50% is required for the theory component of all Modules.
- A sub-minimum of 50% is required for the practical component of all Modules.

5.2.8 Exclusion Rules

A first-year student who fails three (3) or more Modules with a combined final mark average of less than 40% is not permitted to re-register in the Department of Emergency Medical Care and Rescue.

5.2.9 Interruption of Studies

Should a student interrupt their studies by more than three (3) years, the student will need to apply to the department for permission to reregister, will need to prove currency of appropriate knowledge prior to being given permission to reregister and pass the departmental medical and physical

evaluations.

5.2.10 Student Appeals

6. BACHELOR OF TECHNOLOGY: EMERGENCY MEDICAL CARE (BTEMC1)

6.1 Programme Information

This programme is in the process of being phased out. The last registration date for new students was January 2019.

6.1.1 Purpose

6.1.2 Pogramme Structure

Code	Modules	HEQSF Level	Assessment Type (CA/E)	SAQA Credits	Pre-requisite subjects
EDTC101	Educational Techniques I		CA	18	None
EMCA401	Emergency Medical Care IV		CA	36	None
MNGP101	Management Practice I		E	18	None
RRES401	Rescue Research Elective IV		CA	30	Research Methodology
RSMG101	Research Methodology		CA	18	None

HEQSF = Higher Education Qualifications Sub-Framework……..SAQA = South African Qualifications Authority ……Prerequisite means a module that a student must pass before registering for the listed module**….**
CA = Continuous Assessment

6.2 Programme Rules

6.2.1 Minimum Admission Requirements

To register for the BTech: Emergency Medical Care the applicant must have successfully completed the National Diploma: Emergency Medical Care or Ambulance and Emergency Care.

6.2.2 *Minimum Duration of Study*

The minimum duration for this programme will be one (1) year of registered study and the maximum duration will be two (2) years of registered study**.**

6.2.3 *Selection Criteria*

To register for the BTech: Emergency Medical Care, the applicant must meet all the requirements for the award of either the National Diploma: Ambulance and Emergency Care or the National Diploma: Emergency Medical Care. Current registration with the HPCSA PBEC on the Paramedic (ANT) register is a requirement.

6.2.4 Assessment and Moderation

Certain Modules in this programme do not have a final examination. The results for these Modules are determined through a weighted combination of assessments. As such, there are no supplementary examinations. Students are encouraged to work steadily through the period of registration in order to achieve the highest results possible. Assessment details are listed under each Module below. Moderation follows the DUT requirements.

6.2.5 Special tests and Condonement

- If an assessment is missed due to medical reasons, the medical certificate / sick note must reach the relevant year coordinator or responsible lecturer within 5 working days after return to campus. This is solely the responsibility of the student.
- Assignments or case studies handed in after the submission date will be penalized (this includes both hard and electronic copies). Ten percent of the mark awarded will be subtracted for each **calendar day** that the assignment or case study is submitted late. This will be done up to a **maximum of five calendar days** (50%) thereafter the assignment or case study will not be accepted and a mark of zero will be awarded. All assignments and case studies must be submitted through Turnitin. Please check the relevant study for the maximum allowed percentage for the similarity index.

6.2.6 Re-registration Rules

The programme is structured to accommodate those National Diploma graduates that are already in full-time employment, nationally and internationally and therefore the B.Tech: programme is offered over two years and only one further year will be allowed for re registration

6.2.7 Progression Rules

Students are encouraged to apply themselves to their learning, and strive for the best academic results possible in order to adequately prepare themselves for their future careers, and to maximize possible employment opportunities. The B Tech: Emergency Medical Care mainly comprises modules with no final examination. As such pass requirements are as follows (as applicable):

1. The Module mark will comprise of all the marks generated during the course of the Module, in the ratio specified in the Study Guide.
2. A minimum of 50% is required to pass the Module.
3. As clinical skills are performed on real patients, in the real-world setting, a sub-minimum of 100% will apply to all OSCE evaluations.
4. A sub-minimum of 50% is required for the theory component of all Modules.

6.2.8 Exclusion Rules

A student who fails to complete the B.Tech: programme over two years will only be allowed one further year for re registration.

6.2.9 Interruption of Studies

The minimum duration for this programme will be one (1) year of registered study and the maximum duration will be two (2) years of registered study. Should a student interrupt their studies, the student will need to apply to the department for permission to reregister and will need to prove currency of appropriate knowledge prior to being given permission to reregister.

6.2.10 *Student Appeals*

SECTION B: POSTGRADUATE QUALIFICATIONS

7. MASTER OF HEALTH SCIENCES IN EMERGENCY MEDICAL CARE

(MHEMC1)

7.1 Programme Information

This is a full research qualification and the guidelines are contained in the Post Graduate Student Handbook This 180-credit qualification is offered at the SAQA NQF Level 9. This programme comprises a comprehensive, independently executed research project that culminates in a dissertation.

The student will undertake self-study that will comprise proposal writing, literature review and writing up of a dissertation under guidance of the appointed supervisor/s.

Contact with supervisor/s and access to the library and available online databases and e-journals is essential throughout the research process. The conducting of fieldwork/laboratory work/ data collection will be undertaken under supervision following the applicable research methodology in compliance with DUT's Institutional Research Ethics requirements.

7.2 Programme Rules

7.2.1 Minimum Admission Requirements & Selection Criteria

Candidates must be possession of a Bachelors Degree in Emergency Medical Care (NQF Level 8), or must have been granted conferment of status.

Candidates may also apply for admittance via Recognition of Learning (RPL). Acceptance into the Master of Health Sciences in Emergency Medical Care degree is limited and admission is therefore not guaranteed. In the event of there being more applicants than the enrolment plan allows, the ranking will be based on:

1. Academic performance during the undergraduate qualification.
2. A concept document of the proposed research submitted to the Departmental Research Committee for approval

7.2.2 Pass Requirements

Students are encouraged to apply themselves to their research, and strive for the best academic results possible in order to adequately prepare themselves for their future careers. A dissertation will be submitted for examination to two approved external examiners. The dissertation must reflect original research that makes a significant contribution to the field of Emergency Medical Care and Rescue.

7.2.3 Interruption of Studies

Should there be bona fide reasons for the interruption of studies for a period of one (1) year or more once the candidate is formally registered, the student may apply for an interruption of registration. Registration may be interrupted under exceptional circumstances only and is not done retrospectively.

7.3 Assessment and Moderation

Please refer to the Postgraduate Student Handbook.

8. DOCTOR OF PHILOSOPHY IN EMERGENCY MEDICAL CARE (DPEMC1)

8.1 Programme Information

This is a full research qualification and the guidelines are contained in the Post Graduate Student Handbook. This 360-credit qualification is offered at the HEQSF Level 10. This programme comprises a novel, comprehensive, independently executed research project that culminates in a thesis.

The student will undertake self-study that will comprise proposal writing, literature review and writing up of a thesis under guidance of the appointed supervisor/s.

Contact with supervisor/s and access to the library and available online databases and e-journals is essential throughout the research process. The conducting of fieldwork/laboratory work / data collection will be undertaken under supervision following the applicable research methodology in compliance with DUT's Institutional Research Ethics requirements.

8.2 Programme Rules

8.2.1 Minimum Admission Requirements & Selection Criteria

The minimum admission requirements to register for the Doctor of Philosophy in Emergency Medical Care degree are:

- Candidates must be in possession of an appropriate Masters degree in the field of Emergency Medical Care and Rescue, or the candidate must have been granted conferment of status.
- Candidates are encouraged to refer to the General Student Handbook and the Postgraduate Student Handbook for further details.

Acceptance into the Doctor of Philosophy in Emergency Medical Care degree is limited and entry is therefore not guaranteed. In the event of there being more applicants than the enrolment plan allows, the following criteria will be applied for selection:

- Candidates must have completed their Masters degree within the prescribed time frame as stated by the Durban University of Technology.
- A concept document of the proposed research topic must be submitted to the Departmental Research Committee for approval prior to registration.

8.2.2 Pass Requirements

Students conduct independent original research through scientific discourse and independent investigation contributing to the development of the field of emergency medical care and rescue. The outcome of this field-specific Doctoral Degree is a comprehensive and systematic grasp of an in-depth body of knowledge in the field of emergency medical care and rescue with the development of specialist expert knowledge, thereby contributing to evidence based professional practice.

A thesis will be submitted for examination to two approved external examiners. The thesis must reflect original research that makes a significant, novel contribution to the field of Emergency Medical Care and Rescue.

8.2.3 Interruption of Studies

The minimum duration for this programme shall be two consecutive years of registered study and the maximum duration will be four years of registered study.

Should there be *bona fide* reasons for a break of a year or more once you are formally registered, you may apply for a suspension of registration. Your registration may be suspended only under **exceptional circumstances**, and is rarely done retrospectively.

8.3 Assessment and Moderation

Please refer to the Postgraduate Student Handbook.

5.2.1 BHEMC1 Subject content and assessments

Subject Name (code)	Learning areas / content	Assessment Plan
Year 1		
FOUNDATIONS OF PROFESSIONAL PRACTICE (FDPP101)	• Academic skills, Computer literacy, • Introduction to the Emergency Medical Services (EMS) —Task level	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE I A (EMCA101)	• Introduction to Emergency Care, Basic and Intermediate life support for the adult patient • Integrated patient care	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE IB (EMCB101)	• Basic and intermediate life support for the obstetric, paediatric and newborn patient • Labour and delivery of the newborn • Integrated patient care	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IA (MRSA101)	• Introduction to fire, search and rescue • Scene stabilization, Vehicle stabilization Extrication techniques, patient management and removal	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IB (MRSB101)	• Theory of trench rescue, trench rescue safety, trench incident management • Patient management and removal, physics applied to trench rescue	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
ANATOMY AND PHYSIOLOGY I (ATPH102)	• Introduction • Cells • Tissues • All body systems	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
BASIC SCIENCES I (BSCN101)	• CHEMISTRY: Introductory Concepts: the substances of Chemistry • Chemical bonds – bonding in compounds • Nomenclature • Basic chemical calculations and the mole concept • Types of chemical reactions • Balancing chemical equations • Using balanced chemical equations – reaction stoichiometry • Organic chemistry, radioactivity • PHYSICS: • Basics of physics • Mechanics • Hydrostatics • Heat	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

CLINICAL PRACTICE I (CNLP101)	• Emergency medical service operational systems • Professional practice • Emergency medical care • Documentation and record keeping	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE IIA (EMCA201)	• Respiratory emergencies, cardio-vascular emergencies, central nervous system emergencies • Endocrine emergencies, toxicology, patient assessment, mental health and mental illness • Introduction to diagnostics	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE IIB (EMCB201)	• Overview of trauma, the kinematics of trauma, ballistics, the shock syndrome, soft tissue trauma Burns, pain management in trauma patients, management of the polytraumatised patient • Management of the entrapped patient, patient assessment	
MEDICAL RESCUE IIA (MRSA201)	• Rope rescue techniques • Patient management and removal • Introduction to the Incident Management System (IMS) • Introduction to the wilderness environment • Equipment laboratory • Camp craft • Navigation and survival techniques	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IIB (MRSB201)	• Overview of structural collapse rescue theory of emergency building shoring • Structural collapse incident management, patient management and removal	
PHYSIOLOGY II (PHYL201)	• All body systems • Blood • Immunity • Pregnancy	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
PHARMACOLOGY I (PHCL201)	• 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 • Drugs affecting the central nervous system	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

CLINICAL PRACTICE II (CNLP201)	• Emergency medical service operational systems • Professional practice • Emergency medical care at intermediate life support level • Documentation and record keeping	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
Year 3		
EMERGENCY MEDICAL CARE IIIA (EMCA301)	• Applied anatomy and physiology, monitoring oxygenation and ventilation (Sp)2 and EtCO2) • Emergency airway management, oxygen delivery systems, mechanical ventilation • Special airway, oxygenation and ventilation situations, intensive care nursing skills • Rapid sequence intubation, management and resuscitation of the intensive care patient	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE IIIB (EMCB301)	• Applied anatomy and physiology, Haemodynamic monitoring and support • Electrocardiography, cardiopulmonary resuscitation, arrhythmia management, acute coronary syndromes, thrombolysis, resuscitation of the ACS patient	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IIIA (MRSA301)	• Rope rescue techniques – 2nd level, lead climbing, artificial high directional, advanced stretcher techniques • Physics applied to rope rescue • Incident Management Systems – tactical level	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
MEDICAL RESCUE IIIB (MRSB301)	• Introduction to confined space rescue, confined space hazard control • Atmospheric monitoring & ventilation, self-contained/supplied air breathing apparatus • Patient management and removal, physics applied to confined space rescue • Disaster management – strategic level • Surface rescue and lifesaving • Small boat handling • Swift water rescue	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
GENERAL PATHOLOGY II (GPTH201)	• Introduction to pathology and disease	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

RESEARCH METHODOLOGY I (RSMG102)	• The aims and importance of research, research instruments • Problem identification and development, literature review, the research proposal, collecting data and analysis • Report writing, statistical analysis	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
CLINICAL PRACTICE III (CNLP301)	• Emergency medical service operational systems • Professional practice • Emergency medical care at advanced life support level • Documentation and record keeping	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
Year 4		
EMERGENCY MEDICAL CARE IVA (EMCA402)	• Emergency management of the critically ill/injured adult patient • Emergency management of the poisoned patient • Emergency management of the critically injured trauma patient • Management of adult cardiac arrest • Management of obstetric emergencies • Management of complicated deliveries • Management of obstetric cardiac arrest	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE IVB (EMCB402)	• Emergency management of the paediatric patient • Emergency care and transportation of the neonate • Management of paediatric cardiac arrest, the intensive care patient, transporting the critically ill/injured patient by road or by air • Special transport situations	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
RESEARCH PROJECT IV (RPJT402)	• Planning a research proposal • Conducting research • Research ethics • Writing a research article • Oral defence of research • Use of tables and figures in a research report • Referencing	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

MANAGEMENT PRACTICE I (MNGP102)	• Principles of Management • New public sector management • Managing equity in the health system • Project management, organizational development and re-engineering the health system • Managing for change in the health system, human resources management, strategic resource management, motivation and leadership	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EDUCATIONAL TECHNIQUES I (EDTC102)	• Theories of knowledge • Approaches to education • Setting outcomes • Selection of content, selection of strategy • Space, resources and material • Preparation of assessment tools or media	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
CLINICAL PRACTICE IV (CNLP401)	• Mastery of emergency medical service operational systems • Mastery of professional practice • Emergency medical care at advanced life support level • Mastery of documentation and record keeping	This module is based on continuous assessment. Please refer to the module study guide for assessment details.

4 BTEMC2 Subject Content

Subject Name (code)	Learning areas / content	Assessment Plan
Year 1		
RESEARCH METHODOLOGY I (RSMG101)	• The aims and importance of research, research instruments, problem identification and development • Literature review, the research proposal, collecting data and analysis, report writing, statistical analysis	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EDUCATIONAL TECHNIQUES I (EDTC101)	• Theories of knowledge, approaches to education, setting outcomes • Selection of content, selection of strategy • Space, resources and material • Preparation of assessment tools for media	Portfolio of Evidence 60% Presentation 40%
MANAGEMENT PRACTICE I (MNGP101)	• Human resource management, industrial relations, financial management, public relations • Vehicle fleet management	Assignments 40% Theory examination 60%
RESCUE RESEARCH ELECTIVE IV (RRES401)	• Extrication • Fire, search and rescue • Rope rescue • Wilderness search and rescue • Urban search and rescue • Confined space rescue	This module is based on continuous assessment. Please refer to the module study guide for assessment details.
EMERGENCY MEDICAL CARE IV (EMCA401)	• CORONARY CARE • Coronary care diagnostics, cardiovascular pharmacology, cardiovascular pathophysiology • Acute coronary syndromes • Thrombolysis • Resuscitation of the coronary patient • INTENSIVE CARE • Intensive care nursing skills, the adult intensive are patient, the paediatric intensive care patient • The neonatal intensive care patient • Rapid sequence intubation • Resuscitation of the intensive care patient • DIAGNOSTICS • Introduction to diagnostics • Examining the head and neck; chest; abdomen; pelvis and the extremities Clinical practice requirements: Please note that the clinical practice requirements of this module must be completed and submitted in the form of a portfolio of evidence. This includes the submission of the experiential learning handbook for the module which provides for proof of skills as well as reflection on practice. Even though there is no grade or mark generated, the portfolio is an integral requirement for successful completion of the Emergency Medical Care IV parent subject. Failure to submit the clinical practice portfolio of evidence by the due date will result in failure of the parent subject. Please consult with your programme facilitator should you require further information in this regard.	This module is based on continuous assessment. Please refer to the module study guide for assessment details.