2020

POSTGRADUATE PROSPECTUS

Cape Peninsula University of Technology
creating futures
## Postgraduate Study Programmes

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Brochures for courses offered at the various campuses and application forms may be obtained on the CPUT website, by writing to the Registrar at the postal address below, or by collecting the brochures and forms from the applications offices at the different campuses.

**POSTAL ADDRESS**

The Registrar  
PO Box 1906  
Bellville 7535

**STREET ADDRESSES**

**Bellville Campus**  
Symphony Way, Bellville  
☎️ +27 (0) 21 959 6911

**District 6 Campus**  
Keizersgracht, District Six, Cape Town  
☎️ +27 (0) 21 460 3911

**Granger Bay**  
Beach Road, Mouille Point, Cape Town  
☎️ +27 (0) 21 440 5700

**Mowbray Campus**  
Highbury Road, Mowbray  
☎️ +27 (0) 21 680 1500

**Wellington Campus**  
Jan van Riebeeck Street, Wellington  
☎️ +27 (0) 21 864 5200

www.cput.ac.za
general information

INTRODUCTION

This guide is intended for students who wish to register for masters and doctoral studies at the Cape Peninsula University of Technology.

ADMISSION

Application for admission to postgraduate study
The specific faculty should be approached, through the faculty research coordinator or the postgraduate administrator, to determine specific faculty admission requirements.

FACULTY RESEARCH COORDINATORS ARE:

Faculty of Applied Sciences
Dr L Sibali
\[ \text{t} +27 \ (0) \ 21 \ 460 \ 8333 \]
\[ \text{e} \ sibalil@cput.ac.za \]

Faculty of Business and Management Sciences
Prof G Iwu
\[ \text{t} +27 \ (0) \ 21 \ 460 \ 3112 \]
\[ \text{e} \ iwug@cput.ac.za \]

Faculty of Education
Prof P du Toit
\[ \text{t} +27 \ (0) \ 21 \ 680 \ 1532 \]
\[ \text{e} \ dutoitp@cput.ac.za \]

Faculty of Engineering and the Built Environment
Mrs T Green
\[ \text{t} +27 \ (0) \ 21 \ 959 \ 6666 \]
\[ \text{e} \ greent@cput.ac.za \]

Faculty of Health and Wellness Sciences
Dr D Bester
\[ \text{t} +27 \ (0) \ 21 \ 959 \ 6570 \]
\[ \text{e} \ besterd@cput.ac.za \]

Faculty of Informatics and Design
Prof E Ruhode
\[ \text{t} +27 \ (0) \ 21 \ 469 \ 1015 \]
\[ \text{e} \ ruhodee@cput.ac.za \]
GUIDE TO POSTGRADUATE STUDIES

The Guide to Postgraduate Studies, course information and electronic application forms are available on the CPUT website: http://www.cput.ac.za

MINIMUM ADMISSION REQUIREMENTS

MTech
A BTech or an equivalent four-year qualification in an appropriate discipline. Candidates should contact the faculty, or consult the faculty website for faculty-specific requirements, especially in terms of marks obtained in the previous degree.

DTech
An MTech or equivalent Masters qualification in an appropriate discipline. Candidates should contact the faculty, or consult the faculty website for faculty-specific requirements, especially in terms of marks obtained in the previous degree.

Masters
An HEQSF aligned Level 8 qualification or equivalent in an appropriate discipline. Candidates should contact the faculty, or consult the faculty website for faculty-specific requirements, especially in terms of marks obtained in the previous degree.

For pre-HEQSF aligned qualifications, also please consult the relevant faculty prospectus and handbooks for articulation options into the new Masters qualifications.

Doctoral
An HEQSF aligned Level 9 qualification or equivalent qualification in an appropriate discipline. Candidates should contact the faculty, or consult the faculty website for faculty-specific requirements, especially in terms of marks obtained in the previous degree. For pre-HEQSF aligned qualifications, also please consult the relevant faculty prospectus and handbooks for articulation options into the new Masters qualifications.

EVALUATION OF FOREIGN QUALIFICATIONS

Applicants who do not have a South African qualification are required to send their results/qualifications to the South African Qualifications Authority (SAQA) in order to have them evaluated and equated to a South African qualification at NQF Level 8 for admission to a Masters degree, and NQF Level 9 for application to a doctoral qualification.

The address is:
The Head of Evaluation of Qualifications
South African Qualifications Authority
Postnet Suite 248
Private Bag X06
Waterkloof 0145
Tel: +27 (0) 12 482 0858/ 64
Website: www.saqa.org.za

Applications for such evaluations should include:
All qualification documents, i.e. the highest school certificate issued by the official
examining body; complete and legible transcripts of academic records in respect of all degrees or other higher education qualifications, together with the final certificates; preceding qualifications leading to any postgraduate/other advanced qualification when the latter is submitted. Certificates in foreign languages should be submitted together with translations into English by a sworn translator. The relevant evaluation fee can be obtained from SAQA in Pretoria.

Students from outside South Africa should visit our website for more information on international applications: http://www.cput.ac.za/study/international-applicants

**English proficiency**

In addition to the criteria for admission, international students from countries where English is not the official language must demonstrate proof of English proficiency.

**Approval by Higher Degrees Committee**

Postgraduate studies are monitored and approved by the Higher Degrees Committee.

**The Centre for Postgraduate Studies (CPGS)**

CPGS provides support to postgraduate students after their admission to the respective faculties and programmes. Their services can be found on the website: http://www.cput.ac.za/research-technology-and-innovation/postgraduate
Faculty of Applied Sciences
Agriculture

MASTER OF AGRICULTURE

Course aim
The aim of this programme is to equip students with the necessary knowledge and skills to systematically and critically analyse complex agricultural problems by conducting industry related research in a wide value chain of agricultural sector, and use the scientific data generated to interpret the social and economic benefits of the study. The research problem, its justification, methods and outcome are reported in a dissertation which combines the science, economic and social benefits of the study.

Career opportunities
Graduates follow career paths in agricultural research, extension, quality control, or the agricultural input and marketing industries, depending on their field of specialisation. Graduates of this programme are able to work in public and private research institutions, businesses, participate in policy on agricultural sectors, work in basic and higher education sector and can own their personal businesses.

Programme structure
Research project and dissertation

Duration of the course
Full-time: One year
Part-time: Two years

Contact details
District Six Campus
Faculty Office
+27 (0) 21 460 3153
+27 (0) 21 460 3217
sciences@cput.ac.za

Wellington Campus
Head of Department
+27 (0) 21 864 5213/
+27 (0) 21 864 5217
+27 (0) 21 864 5273
Chemistry

MASTER OF APPLIED SCIENCES IN CHEMISTRY

Course aim
The aim of this programme is to equip students with the necessary knowledge and skills to conduct independent research in chemistry and environmental sciences, and to contribute significantly to knowledge production through the application and evaluation of existing and new knowledge.

Career opportunities
The need for new products, and new applications of existing products or raw materials is rapidly increasing. Exponential growth in the human population is putting increasing pressure on agricultural land for food production, which results in an increase in the use of fertilizers and pesticides that can be harmful to the environment. Concern for the environment and the effects of chemical and related process industries means that the monitoring of effluent discharges and remediation strategies have become more important. The medicinal value of plants is being recognised on a larger scale, which results in a need for a better understanding of the chemical composition of these plants and their pharmacology.

Graduates play an important and direct role in these fields, and are employed in the research and development, as well as the health and safety departments of companies. They are also employed in teaching positions at higher education institutions.

Programme structure
Research project and dissertation

Duration of the course
Full-time: Minimum of one year
Part-time: Minimum of two years

Contact details

Bellville Campus
Faculty Office
📞 +27 (0) 21 959 6168
📧 vanwykl@cput.ac.za

Head of Department
📞 +27 (0) 21 959 6116
📧 somersetv@cput.ac.za
DOCTOR OF PHILOSOPHY IN CHEMISTRY

**Course aim**
The purpose of this programme is to develop the competence to conduct independent research under minimal guidance in the field of chemistry. Such research should contribute significantly to the body of knowledge through the application and evaluation of existing knowledge. The research problem, including its justification, process and outcome, is reported in a thesis and in scientific publications that comply with the generally accepted norms for research at this level.

**Career opportunities**
Graduates follow a career in research and development in industry, or may be employed at research institutes. They are also employed in teaching and research positions at higher education institutions.

**Programme structure**
Research and thesis

**Duration of the course**
**Full-time:** Two years minimum, after completion of the Masters degree.

**Contact details**

**Bellville Campus**
**Faculty Office**
Phone: +27 (0) 21 959 6168
Email: vanwykl@cput.ac.za

**Head of Department**
Phone: +27 (0) 21 959 6116
Email: somersetv@cput.ac.za
Consumer Science: Food & Nutrition

MASTER OF CONSUMER SCIENCE IN FOOD AND NUTRITION

Course aim
The aim of the programme is to educate researchers who can contribute to the development of food and nutrition knowledge at an advanced level. The research application will consist of advanced studies in a field of professional practice, and focus on the integration of food and nutrition with the aim of enhancing the well-being of the consumer.

Career opportunities
Opportunities exist in the fields of food science, research and development. Graduates are also employed in teaching and research positions in higher education institutions.

Programme structure
Research project and dissertation

Duration of the course
**Full-time:** Minimum of one year  
**Part-time:** Minimum of two years

Contact details

District Six Campus  
Faculty Office  
+27 (0) 21 460 3176  
+27 (0) 21 460 3217  
sciencess@cput.ac.za

Head of Department
+27 (0) 21 460 3428
+27 (0) 21 460 3217
Conservation & Marine Sciences

MASTER OF CONSERVATION SCIENCE

Course aim
Students undertake in-depth research and complete a dissertation in a specialist area of conservation and marine sciences.

The Masters degree in Conservation Science equips students with the necessary knowledge and skills to conduct research in conservation science, and to contribute to knowledge production through the application and evaluation of existing and new knowledge. The description of the research problem, its justification, the data gathering process and outcome are reported on in a dissertation.

Career opportunities
Scientific support for Municipal, Provincial and National conservation authorities. Research and conservation project implementation for non-governmental organisations (NGO’s), environmental consultancy.

Programme structure
Research project and dissertation

Duration of the course
Full-time: Minimum of one year
Part-time: Minimum of two years

Contact details
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+27 (0) 21 460 3193

sciences@cput.ac.za
Conservation
& Marine Sciences

MAGISTER TECHNOLOGIAE: OCEANOGRAPHY

Course aim
The aim of the programme is to equip students with the knowledge and skills to conduct research in a wide range of topics in physical, chemical and biological oceanography, and to contribute to knowledge production through the application and evaluation of existing and new knowledge. The research problem, its justification, process and outcome are reported in a dissertation.

Career opportunities
Graduates are employed as senior oceanographers, researchers, fisheries managers in government and non-governmental organisations.

Programme structure
Research project and dissertation

Duration of the course
**Full-time:** Minimum of one year
**Part-time:** Minimum of two years

Contact details
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📞 +27 (0) 21 460 3193
📧 sciences@cput.ac.za
Environmental & Occupational Studies

MASTER OF ENVIRONMENTAL HEALTH

Course aim
Students conduct research under the guidance of a supervisor in order to find the best solutions for environmental health problems in South Africa. This programme equips students with the necessary knowledge and research skills to conduct research in the environmental health context, and to contribute to knowledge production through the application and evaluation of existing and new knowledge.

Career opportunities
Graduates play an important role in the field of environmental health, and can be employed in research and development in the environmental health and safety sector, which can include private companies or local authorities, as well as in teaching positions at higher education institutions.

Programme structure
Research project and dissertation

Duration of the course
Full-time: Minimum of one year
Part-time: Minimum of two years

Contact details
District Six Campus
Head of Department
+27 (0) 21 460 3199
+27 (0) 21 460 3217
odendaalj@cput.ac.za
Environmental & Occupational Studies

MASTER OF ENVIRONMENTAL MANAGEMENT

Course aim
The aim is to train students to function as managers and researchers in the environmental management context. This programme equips students with the necessary knowledge and research skills to conduct research in environmental management, and to contribute to knowledge production through the understanding, application and evaluation of existing and new knowledge.

Career opportunities
Employment opportunities exist in government departments such as the Environmental and Water Affairs, industry and consulting companies. Graduates are employed as Environmental Consultants, Environmental and Occupational Management Systems Specialists, Environmental Impact Assessment Specialists, and Environmental Auditors.

Programme structure
**Compulsory subjects**
Environmental Economics
Environmental Assessment: Theory and Practice
Environmental Law
Research Training and Methodology

Contact details
**District Six Campus**
Head of Department
+27 (0) 21 460 3199
+27 (0) 21 460 3217
odendaalj@cput.ac.za
Select two of the following elective subjects:
Environmental Chemistry
Water Resources Management
Geographic Information Systems
Marine and Coastal Development
Environmental Occupational Health and Safety
Urbanisation and Development

After completion of the coursework subjects indicated above, students register for the Research Project and Report subject in order to complete the research and dissertation component of the qualification.

Duration of the course
Full-time and part-time: Minimum of two years
Environmental & Occupational Studies

DOCTOR OF PHILOSOPHY IN ENVIRONMENTAL HEALTH

Course aim
The purpose of this programme is to develop the competence to conduct independent, original research under the guidance of a supervisor in the field of environmental health. Such research should contribute significantly to the body of knowledge through the understanding, application and evaluation of existing and new knowledge.

Career opportunities
Graduates are appointed in senior positions in research and development in industry or government departments, or in teaching and research positions at higher education institutions.

Programme structure
Research project and thesis

Duration of the course
Full-time: Minimum of two years
Part-time: Minimum of three years

Contact details
District Six Campus
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+27 (0) 21 460 3199
+27 (0) 21 460 3217
odendaalj@cput.ac.za
Faculty of Applied Sciences

Food Science & Technology

MASTER OF FOOD SCIENCE AND TECHNOLOGY

Course aim
The purpose of the Master of Food Science & Technology is to educate and train researchers who will be able to reflect critically on food technology theory and practice and their application at an advanced level. Graduates must be able to handle complex Food Science and Technology related problems, both systematically and creatively, design and critically appraise the research, make sound judgements using data information, and communicate their findings clearly to specialist and non-specialist audiences. They must be able to conduct independent planning and implementation of research projects with a theoretical scientific underpinning.

Graduates may apply for registration with the South African Council for Natural Scientific Professions as Candidate Natural Scientists.

Programme structure
Research project and dissertation

Duration of the course
**Full-time:** Two years
**Part-time:** Three years

Contact details

**Bellville Campus**
**Head of Department**

📞 +27 (0) 21 959 6176
✉️ vanwykj@cput.ac.za

**Faculty Office**

📞 +27 (0) 21 959 6818
✉️ vanwykj@cput.ac.za
Food Science & Technology

DOCTOR OF FOOD SCIENCE AND TECHNOLOGY

Course aim
The purpose of the Doctor of Food Science & Technology is to produce graduates who will be able to reflect critically on food technology theory and practice and their application at doctoral level. They must be able to deal with complex issues both systematically and critically, and be able to supervise and evaluate the research of others. Graduates must be able to handle complex Food Science and Technology related problems, both systematically and creatively, design and critically appraise the research, make sound judgements using data information and communicate their findings clearly to specialist and non-specialist audiences. They must be able to conduct independent planning and implementation of research projects with a theoretical scientific underpinning. In other words, graduates participate in the advancement of original research in academia and in the Food Industry.

Graduates may apply for registration with the South African Council for Natural Scientific Professions as Professional Natural Scientists.

Programme structure
Research project and dissertation

Duration of the course
Full-time: Three years
Part-time: Five years

Contact details
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Head of Department

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vanwykj@cput.ac.za

Faculty Office

+27 (0) 21 959 6818
vanwykj@cput.ac.za
Horticulture

MASTER OF HORTICULTURAL SCIENCE

Course aim
The aim of the course is to develop skilled graduates who will be competent in conducting applied and fundamental research principles in any of the fields of plant propagation, production and development, landscape, environmental, retail management and maintenance.

The Masters degree in Horticulture equips students with the necessary knowledge and skills to conduct research in horticulture, and to contribute to knowledge production through the understanding, application and evaluation of existing and new knowledge.

The research problem, its justification, process and outcome are reported in a dissertation.

Career opportunities
Graduates may find work locally and internationally in production nurseries, garden centres, landscape maintenance enterprises, parastatals and municipal metropoles. In addition, for those graduates with a desire to do research, the South African National Biodiversity Institute, the Agricultural Research Council and commercial plant development enterprises, are important employers.

Programme structure
Research project and dissertation

Duration of the course
Full-time: One year
Part-time: Two years

Contact details
Bellville Campus
Faculty Office
+27 (0) 21 959 6818

Head of Department
+27 (0) 21 959 5805

Departmental Secretary
+27 (0) 21 959 5612
danielsdl@cput.ac.za
Horticulture

DOCTOR OF HORTICULTURE

Course aim
The qualification aims to produce graduates who can innovatively develop and sustain the Horticulture Industry with personal intellectual growth and the ability to recognise the importance of research for gainful economic activity and contributions to society. The qualification further aims in developing a research capacity that will stimulate growth in the numbers of Doctorate students and specialist scientists between universities, the Horticulture Industry and related economic sectors on a national, continental and global level. The qualification will take advantage of the indigenous plant resources so as to focus on South African species, including Traditional Medicinal Plants with regards to: flower development, timing of flowering, vernalization, stabilisation of flower pigments, juvenile-to-mature transition in rooting and flowering abilities, resistance mechanisms to biotic and abiotic stresses, manipulation of growth parameters of horticultural crops, development and breeding of ornamental cultivars, etc. It will also provide the opportunity to specialise in horticulture related fields such as: biotechnology, breeding and genetics, crop physiology, floriculture, integrated pest management, landscape design horticulture (scarce skills), modeling and quantitative systems analysis, nursery production, tissue culture, plant growth and development, plant nutrition, post-harvest biology and technology, precision agriculture, re-vegetation/ restoration, and water relations. Additionally, it will advance research opportunities for future urban food production to relieve the pressures on future food shortages.

Career opportunities
Graduates may find work locally and internationally in production nurseries, garden centres, landscape maintenance enterprises, parastatals and municipal metropoles. In addition,
for those graduates with a desire to do research, the South African National Biodiversity Institute, the Agricultural Research Council and commercial plant development enterprises, are important employers.

**Career opportunities**
The programme will be hugely instrumental in producing graduates for the Green Industries, Municipalities, Botanical Gardens, Parks and Forest and Agriculture Departments, Departments of Public Works, Transport and Eskom. The need to develop a postgraduate programme such as the doctorate in horticulture has become critically important in advancing technology, especially indigenous knowledge and plant breeding in the sector.

**Programme structure**
Research project and dissertation

**Duration of the course**
**Full-time:** Three years
Faculty of Business and Management Sciences
Business Administration

MAGISTER TECHNOLOGIAE

Course aim
The MTech Business Administration supplements the knowledge acquired in the BTech Business Administration to enable graduates to function at an executive level. The programme assists students to develop the capacity to become effective senior level managers across a range of public and private sector companies.

Career opportunities
Graduates who wish to accelerate up their progress up the corporate ladder, or who wish to move out of their current field of expertise, can increase their chances of promotion, marketability and employability.

Option 1. Research-based degree
Students conduct supervised research in a specialised area of business administration and complete a full dissertation

Option 2. Course-driven degree
This programme consists of coursework (contact session) and a mini-dissertation

Programme structure
Option 1: Research-based degree
- Dissertation

Option 2: Course-driven degree
- Strategic Management 5
- Project Management 5
- Organisational Dynamics 5
- Entrepreneurship 5
- Research Methodology 5
- Advanced Financial Management 5
- Minor Dissertation

Duration of the course
Part-time: Five years

Contact details

District Six Campus
Mr Siseko Mtetwa
- +27 (0) 21 460 3247
- mtetwas@cput.ac.za

Ms Candice Carolissen
- +27 (0) 21 460 3833
- waltersc@cput.ac.za
Business Administration in Entrepreneurship

MAGISTER TECHNOLOGIAE

Course aim
The focus of the programme is to equip candidates with skills to produce interesting and innovative learning programmes and business initiatives, which encourage the development of entrepreneurial skills. The candidate will also acquire research skills within a selected field of study to explore and develop entrepreneurial opportunities.

Career opportunities
This qualification is aimed at experienced entrepreneurs, mentors, business coaches, business development managers and senior administrators in the economic development sector. Graduates of this qualification are experienced entrepreneurs, mentors, business coaches, business development managers and senior managers in the business sector.

Admission Requirements
A BTech or an equivalent qualification in an appropriate discipline, with an aggregate of 60% for preceding BTech degree. A pass in Research Methodology, is required. Should a candidate not hold a credit for Research Methodology he/ she will be required to successfully complete the subject Research Methodology in addition to the prescribed subjects of the programme. In some disciplines relevant work experience after obtaining a BTech or similar degree is required.

Programme structure
Option 1: Research-based degree
Research project

Duration of the course
Part-time: Two years (Maximum period: Five years)

Venue of Offering
District Six Campus

Contact details
District Six Campus
Mr Siseko Mtetwa
+27 (0) 21 460 3247
mtetwas@cput.ac.za
Course aim
The MTech in Business Administration (Project Management) aims to equip career-minded graduates and professionals in government, business and industry with the underlying theory and associated skills required to successfully lead projects and institute change in organisations.

The programme supplements the knowledge and skills acquired in the BTech Project Management programme to enable graduates to function at executive level.

Career opportunities
Graduates find employment in senior positions in business and industry.

Admission Requirements
A BTech or an equivalent qualification in an appropriate discipline, with an aggregate of 60% in the final year subjects and with a pass in Research Methodology, is required. Should a candidate not hold a credit for Research Methodology he/she will be required to successfully complete the subject Research Methodology in addition to the prescribed subjects of the prescribed subjects of the programme. In some disciplines relevant work experience after obtaining a BTech or similar degree is required. Course-based qualifications are offered via block-release compulsory attendance.

Programme structure
Project Management Process 5
Project Quality 5
Project Ethics and Governance 5
Research project and paper

Project Accounting 5
Project Resources 5
Operation Research 5

Duration of the course
Part-time: Two years

Venue of Offering
District Six Campus

Contact details
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Business Information Systems

MAGISTER TECHNOLOGIAE

Course aim
The Masters degree in Business Information Systems (BIS) is intended to bridge between management and the design, development, and implementation of integrated business systems and operations.

Career opportunities
Graduates who master both business knowledge and technology skills have more job opportunities, because they have potentials to contribute to the shaping of their employers’ BIS strategy and operation, whether this is with a large company, government department, consultancy, specialist IT division, educational or medical institution or small to medium enterprise.

Research-based degree
Students conduct supervised research in a specialised area of business information systems and complete a full dissertation.

Programme structure
Research-based degree
Research and dissertation

Contact details

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Ms Candice Walters
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Cost and Management Accounting

MASTER OF MANAGEMENT ACCOUNTING

Course aim
Graduates develop the knowledge and skills required to conduct independent research in cost and management accounting and related practice and to contribute significantly to knowledge production through the understanding, application and evaluation of existing and new knowledge.

Career opportunities
Graduates generally work at senior levels and operate at the heart of the decision-making process. They are responsible for finding, interpreting and assessing critical information to help shape an organisation’s strategy. They work in all business sectors from blue chip companies to banks and public sector organisations to management consultancies. Graduates are also employed in research and teaching positions at higher education institutions.

Admissions Requirements
A BTech or an equivalent qualification in an appropriate discipline, with an aggregate of 60% for preceding BTech degree. A pass in Research Methodology, is required. Should a candidate not hold a credit for Research Methodology he/ she will be required to successfully complete the subject Research Methodology in addition to the prescribed subjects of the programme. In some disciplines relevant work experience after obtaining a BTech or similar degree is required.

Programme structure
Research project and dissertation

Duration of course
Maximum six years

Contact details
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Head of Department
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Food and Beverage Management

MAGISTER TECHNOLOGIAE

Course aim
The programme is specifically designed to provide a broad based education recognising the strong interrelationships between food and beverage and hospitality. This programme of study allows for the students a broader opportunity for employment and career related goals.

Magister Technologiae: Hospitality Management Food and Beverage is a thesis that strengthens the student’s overall view of the Food and Beverage and Hospitality professions. The masters will ensure that middle and senior level management in the Food and beverage and hospitality, food service sectors have the requisite competencies and associated proficiency to succeed at strategic level.

Career opportunities
Food and Beverage and Food Service have become one of the world’s most significant sectors due to the economic activities of tourism over the last fifty years. International tourism is responsible for the movement of many millions of people each year, travelling for a variety of reasons, including holidays, business, education, health and visiting friends and relatives. A significant service industry is required to enable tourism to take place, while various public sector organisations are concerned with tourism development and marketing.

Food and Beverage in the Hospitality industry supports employment on a large scale in many parts of the world. As the tourism industry grows and tourism develops, there is an increasing demand from employers for quality graduates with an indepth understanding of Food and Beverage and hospitality with proven research skills.
The South African Food and Beverage, Hospitality and Tourism Industry is committed to service excellence and professionalism. Effective and professional management in this vibrant industry is the key to achieving sustainable Food and Beverage and hospitality development, providing an enabling environment for entrepreneurs. The Institution supports these goals and provides for further development at senior level in food and beverage management tourism, hospitality and food service management.

Admissions Requirements
A BTech or an equivalent qualification in an appropriate discipline, with an aggregate of 60% for preceding BTech degree. A pass in Research Methodology, is required. Should a candidate not hold a credit for Research Methodology he/ she will be required to successfully complete the subject Research Methodology in addition to the prescribed subjects of the programme. In some disciplines relevant work experience after obtaining a BTech or similar degree is required.

Programme structure
Research project and dissertation

Duration of course
Minimum Full-Time: 1 Year
Minimum Part-time: 2 Years
Maximum duration: 5 years

Venue of Offering
District Six Campus
Human Resource Management

The previously offered Magister Technologiae (MTech) in HRM, both course-based and full research based as been replaced with the new Higher Education Qualifications Sub-Framework (HEQSF) aligned Master of HRM. The newly aligned Master of HRM (NQF Level 9 consisting of 180 SAQA credits) has been approved by the Council of Higher Education (CHE) and implemented in the HRM Department since 2016.

MASTER OF HUMAN RESOURCE MANAGEMENT

Course aim
The aim of Masters study is twofold:
• To ascertain if the candidate can perform scientifically sound research independently, and
• To ascertain whether the candidate can report on the research study according to academic research standards.

Research guidance for a full dissertation Masters degree is offered. It is vital that the intended study falls within the parameters of human resource management discipline and field of study. Applications that fall outside of this scope cannot be catered for in the Department of Human Resource Management.

The final deliverable of this programme is a dissertation. The dissertation should be a comprehensive (200+ pages) scientific research report. In addition to this, research outputs in the form of publishable conference papers and/or academic articles are also required.

Career opportunities
The new HEQF aligned Masters Degree in Human Resource Management offers students the opportunity to become a master practitioner in the HR field. This Masters Degree will enable HR practitioners to reflect critically on theory

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and its appropriate application in the workplace. Master HR practitioners should be able to manage complex issues, demonstrate self-direction and originality in approaching and solving discipline related problems. They should be competent in designing and conducting discipline research, using their data and information in a constructive manner by communicating their conclusions and recommendations to both specialist and non-specialist audiences.

A master HR practitioner should act autonomously in planning and implementing tasks with human resource theoretical underpinnings and continuously improve their knowledge, skills and applied competencies. Situational analysis conducted from job advertisements published in regional and national newspapers and on internet sites, revealed needs for a variety of strategic and/ or executive HR jobs, including but not limited to Group HR Manager, Executive Manager: HR Management, Human Resources Specialist: Talent Management and Director: Human Resource Development. This Masters Degree will enable graduates to advance in the labour market, and ensure that employers received qualified and professional Master HR practitioners.

**Admissions Requirements**

In addition to the admission requirements on page 5, at least three years’ relevant work experience after obtaining a Postgraduate Diploma or similar degree, is required. Please note the specific admission requirements and qualifications necessary for this degree has been amended as follows:

- Relevant HR related qualification on NQF Level 8 (either Postgraduate Diploma or Honours degree) with a 60% academic average and Research Methodology subject completed.
• In addition, the applicant must participate in the departmental screening process and obtain a pass mark of 60% for the Provisional Research Proposal (PRP).

Owing to the HEQSF, the HRM department’s programme qualification mix has changed and will in future replace the current Baccalaureus Technologiae (BTech) (NQF level 7) with an Advanced Diploma on NQF level 7, followed by the Postgraduate Diploma on NQF Level 8. The Advanced Diploma date of implementation is estimated in 2019/2020 and the Postgraduate Diploma in 2020/2021. Applicants who currently hold a BTech (NQF level 7) cannot progress directly into the new Masters degree (NQF Level 9). CPUT will accommodate such applicants by offering two subjects as ‘articulation’ to bring them up to NQF Level 8 in order to progress to NQF Level 9. These subjects are: Research Methodology 5 and Modern Themes in HR Management 5. Students will be required to register for these subjects for non-degree purposes which will be offered as from 2016. These articulation subjects will be offered in the 2nd semester to all students who have passed the screening process. Students with a relevant Postgraduate Diploma or Honours degree on NQF Level 8 may commence with the Masters degree on Level 9 without the articulation subjects; however they are still required to participate in the screening process (PRP).

Programme structure
Research and thesis

Duration of course
Part-time: Minimum 2 years
Maximum duration: 5 years

Venue of Offering
District Six Campus
Human Resource Management

The previously offered Doctor Technologiae (DTech) in HRM was replaced with the new HEQSF aligned Doctor of HRM. This newly aligned Doctor of HRM (NQF level 10 consisting of 360 SAQA credits) was approved and implemented in January 2016.

DOCTOR OF HUMAN RESOURCE MANAGEMENT

Course aim
The aim of Doctoral study is threefold:
• To reiterate that the candidate is proficient at conducting scientifically sound research independently,
• To ensure the study makes an original and significant contribution to the current HR body of knowledge pertaining to the study, and
• To ascertain whether the candidate can report on the research study according to academic research standards.

The Department of Human Resource Management offers research guidance for a full thesis Doctoral degree. It is vital that the intended study falls within the parameters of human resource management discipline and field of study. Applications that fall outside of this scope cannot be catered for in the Department of Human Resource Management. The Department also reserves the right to decline applications on the basis of insufficient research supervision capacity.

The final deliverable of this programme is a thesis. The thesis should be comprehensive (300+ pages) scientific research report. In addition to this, research outputs in the form of publishable conference papers and/or academic articles are also required.

Career opportunities
The new HEQF aligned Doctoral Degree in Human Resource Management offers students the opportunity to reflect and improve as a master practitioner in the HR field. This Doctoral
DOCTOR OF HUMAN RESOURCE MANAGEMENT (continued)

Degree will enable Master HR practitioners to pursue a career in academia. HR doctoral candidates should demonstrate high levels of research ability and contribute a significant or original academic knowledge, skill or competency to the HR profession. Their work or contributions should be of a high quality that meets the requirements of peer review and merit publications. Doctoral candidates should be committed to lifelong learning and adding value to the HR profession. This Doctoral Degree will enable graduates to advance in the labour market, and ensure that employers received qualified and professional Master HR practitioners.

Admission requirements
Please note the specific admission requirements and qualifications necessary for this degree has been amended as follows:

- In order to meet the admission requirements for this programme, applicants are required to be in possession of a Masters degree (NQF Level 9) in the Human Resource Management discipline. It is strongly recommended that the applicant have undergraduate diplomas and/ or degrees in HRM field of study as the theoretical grounding for scientific knowledge production in the doctor of HRM.
- In addition, the applicant must participate in the departmental screening process and obtain a pass mark of 60% for the Provisional Research Proposal (PRP).

Programme structure
Research and thesis

Duration of course
Part-time: Minimum 2 years
Maximum duration: 6 years

Venue of Offering
District Six Campus
INTERNAL AUDITING

Course aim
Graduates develop the knowledge and skills required to conduct independent research in internal auditing and related practice, and contribute significantly to knowledge production through the understanding, application and evaluation of existing and new knowledge.

Career opportunities
Graduates generally work at senior levels and perform internal audits for organisations focusing on controls, risk management and governance. They work in all business sectors from blue chips companies to banks and public sector organisations to management consultancies. Graduates are also employed in research and teaching positions at Higher Education institutions.

Admissions Requirements
A BTech or an equivalent qualification in an appropriate discipline, with an aggregate of 60% for preceding BTech degree. A pass in Research Methodology, is required. Should a candidate not hold a credit for Research Methodology he/she will be required to successfully complete the subject Research Methodology in addition to the prescribed subjects of the programme. In some disciplines relevant work experience after obtaining a BTech or similar degree is required.

Programme structure
Research project

Duration of course
**Full-time:** Minimum 1 Year
**Part-time:** Minimum 2 Years
**Maximum duration:** 6 years

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Internal Auditing

DOCTOR OF INTERNAL AUDITING

Course aim
Graduates are qualified researchers who are expert in the research process, as well as in the field of auditing.

Career opportunities
Graduates find employment as academics at Higher Education institutions, or become leaders in commerce and industry or the public sector.

Admissions Requirements
A Masters or equivalent qualification in an appropriate discipline. Delivery of a paper at a conference, as well as a paper submission is a prerequisite in most disciplines.

Programme structure
Research and thesis

Duration of course
**Full-time:** One year and a maximum of 7 years
**Part-time:** Two years and a maximum of 7 years

Venue of offering
District Six Campus

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Marketing

MASTER OF MARKETING

Course aim
The aim of the programme is to develop the student’s competence to conduct independent research in the field of marketing. Such research should contribute to the body of knowledge through the understanding, application and evaluation of existing knowledge.

Career opportunities
Graduates are equipped for high-level management careers in marketing, which may include regional, national and international opportunities.

Admissions Requirements
Students who have completed BTech: Marketing with an aggregate of 60% can articulate to the Master of Marketing by completing the following compulsory subjects: Contemporary Marketing and Research Methodology modules of 60 credits at NQF Level 8. Students register for these modules concurrently with the Master of Marketing programme. Students with a Post Graduate Diploma in Marketing will require an aggregate of 60%. Applicants with a Honours or Post Graduate Diploma in other fields directly related to Marketing will require an aggregate of 60%.

Programme structure
Research and dissertation
Contemporary Marketing 5 and Research Methodology 5 – including the development of a research proposal and dissertation

Duration of course
Full-time: One year and a maximum of 6 years
Part-time: Two years and a maximum of 6 years

Venue of offering
District Six Campus

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Marketing

DOCTOR OF COMMERCE IN MARKETING

Course aim
The aim of the programme is to develop competence to conduct independent research under minimal guidance in the field of Marketing. Such research should contribute significantly to the body of knowledge through the understanding, application and evaluation of existing knowledge.

Career opportunities
Graduates follow a career in executive positions or research in Marketing. They are also employed in teaching and research positions at Higher Education institutions.

Admissions Requirements
An M Tech or Masters in Marketing with an average of 60% (or an equivalent qualification) is required.

Programme structure
Research and thesis

Duration of course
Full-time: Minimum of 2 years and a maximum of 7 years
Part-time: Minimum of 2 years and a maximum of 7 years

Venue of offering
District Six Campus

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Business and Information Administration

MASTER OF BUSINESS AND INFORMATION ADMINISTRATION

Course aim
The aim of this programme is to equip students with the necessary knowledge and skills to undertake well-rounded and independent inquiry. This programme provides candidates with advanced professional and academic knowledge in the field of business, management, information and office administration. Students conduct independent supervised research and complete a dissertation. This qualification will provide opportunities for students to progress to studies at the doctoral level and will contribute to the graduates’ professional development and career path to more senior and managerial positions within the field of business and information administration.

Career opportunities
Graduates find employment in senior positions in both the public and the private sectors, in fields that are closely aligned with their area of research, in environments such as administration, public relations, human resources, law, or e-commerce.

Admissions Requirements
The admission requirements are applicants who have an appropriate HEQSF Postgraduate Diploma/ Honours (NQF Level 8) or equivalent qualification related to the following fields of study: Business, Office and Information Administration with a 60% academic average and Research Methodology subject completed. In addition, the applicant must participate in the departmental screening process for the provisional research proposal.

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Owing to the HEQSF, the Business and Information Administration department’s programme qualification mix has changed and will in future replace the current Bacculareus Technologiae (BTech) (NQF level 7) with an Advanced Diploma on NQF level 7, followed by the Postgraduate Diploma on NQF Level 8. The Advanced Diploma date of implementation is 2020 and the Postgraduate Diploma in 2021. Applicants who currently hold a BTech (NQF level 7) cannot progress directly into the new Masters degree (NQF Level 9). These applicants need to register for a subject for non-degree purposes as ‘articulation’ to bring them up to NQF Level 8 in order to progress to NQF Level 9. Applicants with a relevant Postgraduate Diploma/Honours degree on NQF Level 8 may commence with the Masters degree on Level 9 without the articulation subject; however, they are still required to participate in the screening process for the provisional research proposal.

Programme structure
Research project and dissertation

Duration of course
Full-time: Minimum of 2 years and a maximum of 5 years
Part-time: Minimum of 2 years and a maximum of 6 years

Venue of offering
District Six Campus
Office Management and Technology

DOCTOR TECHNOLOGIAE

Course aim
The aim of this programme is to develop the competence to conduct independent research in the field of Office Management and Technology. Such research should contribute significantly to the body of knowledge and make an original contribution, through the understanding, application and evaluation of existing knowledge. The research problem, including its justification, process and outcome, is reported in a thesis that complies with the generally accepted norms for research at this level.

Career opportunities
Graduates find employment in senior positions in both the public and the private sectors, in fields that are closely aligned with their area of research, in environments such as administration, public relations, human resources, law, or e-commerce.

Admissions Requirements
A Masters or equivalent qualification in an appropriate discipline. Delivery of a paper at a conference, as well as a paper submission is a prerequisite in most disciplines.

Programme structure
Research and thesis

Duration of course
Full-time: One year and a maximum of 7 years
Part-time: Two years and a maximum of 7 years

Venue of offering
District Six Campus

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Public Administration

MASTER OF PUBLIC ADMINISTRATION

Course aim
The public sector is committed to professionalism and good governance at senior management level, to achieve the high standards required for effective service delivery. Students may choose one of two options to complete the MTech Public Management.

Career opportunities
Career opportunities exist in the administrative and management environment of all three spheres of the public sector – local, provincial, and national, as well as in semi-state (parastatal) and non-profit organisations, educational institutions, the diplomatic corps or in political journalism.

Admissions Requirements
A BTech or an equivalent qualification in an appropriate discipline, with an aggregate of 60% for preceding BTech degree. A pass in Research Methodology, is required. Should a candidate not hold a credit for Research Methodology he/she will be required to successfully complete the subject Research Methodology in addition to the prescribed subjects of the programme. In some disciplines relevant work experience after obtaining a BTech or similar degree is required.

Programme structure
Option 1: Research-based degree

Duration of course
Part-time: 2 years and a maximum of 6 years

Venue of offering
District Six Campus

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Public Administration

DOCTOR OF PUBLIC ADMINISTRATION

Course aim
The purpose of this programme is to develop the competence to conduct independent research under expert guidance in the field of public management.

Career opportunities
Graduates follow a career in executive positions or research in public management. They are also employed in teaching and research positions at Higher Education institutions.

Admissions Requirements
A Masters or equivalent qualification in an appropriate discipline. Delivery of a paper at a conference, as well as a paper submission is a prerequisite in most disciplines.

Programme structure
Research and thesis

Duration of course
Part-time: Minimum of 2 years and a maximum of 7 years

Venue of offering
District Six Campus

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Retail Business Management

MASTER OF RETAIL BUSINESS MANAGEMENT

Course aim
The aim of this programme is to equip students with the necessary knowledge and skills to conduct independent research in retail business management, and to contribute significantly to the industry through the understanding, application and evaluation of existing and new knowledge.

Career opportunities
Graduates follow high-level management careers in the retail and wholesale sectors, such as category management, regional or national management, or international business management.

Admissions Requirements
A BTech or an equivalent qualification in an appropriate discipline, with an aggregate of 60% for preceding BTech degree. A pass in Research Methodology, is required. Should a candidate not hold a credit for Research Methodology he/she will be required to successfully complete the subject Research Methodology in addition to the prescribed subjects of the programme. In some disciplines relevant work experience after obtaining a BTech or similar degree is required.

Programme structure
Six months course work on Advanced Research Methodology
Research project and dissertation

Duration of course
Part-time: Minimum of 2 years and a maximum of 6 years

Venue of offering
District Six Campus

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Sport Management

MASTER OF SPORT MANAGEMENT

Course aim
The Master Sport Management is a research-driven qualification culminating in a full thesis. The qualification aims to provide a clear professional and academic pathway in the area of sports business and management that will enhance managerial, business and research skills required for the 21st century in Africa, as well as for the world market. The need for this level of expertise and applied knowledge in South Africa, Africa and in the global economy is underpinned by the rapid and continuing evolvement of the business of sport. The postgraduate degree is intended to provide a qualification and subsequent opportunities for those candidates in possession of a wide range of degrees in the Sports Management, Sports Science and related fields. It is designed to improve the knowledge base, skills and capacity of practicing sports managers and to improve national capacity in the business of sport and the management of sports organisations and facilities.

Career opportunities
Graduates follow high-level management careers in the fields of sports marketing, strategic analysis, and research and technology development.

Admissions Requirements
A BTech in Sport management or an equivalent qualification in an appropriate discipline, with an aggregate of at least 60% for the preceding BTech degree. A pass in a Research Methodology subject, is required. Should a candidate not hold a credit for Research Methodology he/ she will be required to successfully complete the subject Research Methodology in addition to the prescribed subjects of the programme. In some disciplines relevant work experience after obtaining a BTech or similar degree is required.

Programme structure
Research and dissertation

Duration of course
**Full-time:** Minimum of 18 months, maximum of 6 years
**Part-time:** Minimum of 2 years, maximum of 6 years
Tourism and Hospitality Management

MAGISTER TECHNOLOGIAE

Course aim
The Masters degree in Tourism and Hospitality is specifically designed to provide a broad based education recognising the strong interrelationships between tourism and hospitality. The degree is based on course work, followed by research project, and is designed to ensure that middle and senior level management in the tourism, hospitality, food service and food and beverage sector have the requisite competencies and associated proficiency to succeed at strategic level.

The research component strengthens the student’s overall view of the Hospitality and Tourism professions. The content of the body of programmes provides managing techniques that the student currently encounter in their careers including hospitality organisational change within the global context while recognising the needs of a culturally diverse workforce, in an increasingly technological environment that requires simultaneous human interaction.

Career opportunities
Over the last fifty years tourism has become one of the world’s most significant economic activities. International tourism is responsible for the movement of many millions of people each year, traveling for a variety of reasons, including holidays, business, education, health and visiting friends and relatives. A significant service industry is required to enable tourism to take place, while various public sector organisations are concerned with tourism development and marketing.

Tourism supports employment on a large scale in many parts of the world. As the tourism industry grows and tourism
develops, there is an increasing demand from employers for quality graduates with an in-depth understanding of tourism and hospitality with proven research skills.

The South African Tourism Industry is committed to service excellence and professionalism. Effective and professional management in this vibrant industry is the key to achieving sustainable tourism and hospitality development, providing an enabling environment for entrepreneurs.

Admissions Requirements
A BTech or an equivalent qualification in an appropriate discipline, with an aggregate of 60% for preceding BTech degree. A pass in Research Methodology, is required. Should a candidate not hold a credit for Research Methodology he/she will be required to successfully complete the subject Research Methodology in addition to the prescribed subjects of the programme. In some disciplines relevant work experience after obtaining a BTech or similar degree is required.

Programme structure
Option 1: Research-based degree
Research project
Research project and paper

The purpose of the dissertation is to provide an opportunity for students to apply the knowledge and skills gained during the course to real-life environment, under supervision, and demonstrate their grasp of the strategic skills, which are at the heart of the course.

Duration of course
Research-based: One year
Maximum: Five years
Tourism and Hospitality Management

DOCTOR TECHNOLOGIAE

Course aim
The purpose of this programme is to develop the competence to conduct independent research in the field of Tourism and Hospitality. Such research should contribute significantly to the body of knowledge through the understanding, application and evaluation of existing knowledge.

Career opportunities
The Doctorate in Tourism and Hospitality is specifically designed to encourage research into the strong interrelationships between tourism and hospitality. This programme of study allows for the students a broader opportunity for employment and career related goals.

The degree is designed to ensure that middle and senior level management in the tourism, hospitality, food service and food and beverage sector have the requisite competencies and associated proficiency to succeed at strategic level.

Admissions Requirements
A Masters or equivalent qualification in an appropriate discipline. Delivery of a paper at a conference ,as well as a paper submission is a prerequisite in most disciplines.

Programme structure
Research project and thesis

Duration of course
Minimum: Two years
Maximum: Six years

Venue of offering
District Six Campus

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Faculty of Education
MAGISTER EDUCATIONIS

Course aim
The aim of this programme is to equip students with the necessary knowledge and skills to conduct research in education, training and development.

Career opportunities
This qualification is relevant to all educators at schools, technical and vocational colleges, and post school institutions, as well as subject advisors, education development officers and district managers.

Admissions Requirements
Applicants who wish to enrol for this qualification should be in possession of an Honours degree or its equivalent at NQF8 level. The entry requirement is 60% for the Honours (or equivalent) qualification, as per CPUT policy.

Programme structure
Research project and dissertation only

Duration of course
**Full-time:** One year  
**Part-time:** Two years  
**Maximum:** Five years

Contact details

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**Wellington Campus**  
Dr Candice Livingston  
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DOCTOR EDUCATIONIS

Course aim
This programme is aimed at creating opportunities for candidates to engage in highly advanced and specialised academic or professional study and research of an aspect of education, training or development.

The purpose of this programme is to develop the competence to conduct independent research under supervision in the field of education, training and development. Such research should contribute significantly to the body of knowledge through the understanding, application and evaluation of existing knowledge.

Career opportunities
This qualification is relevant to educators in schools, technical and vocational colleges, as well as subject advisors, education development officers and lecturers in higher education.

Admissions Requirements
Applicants who wish to enrol for this qualification should be in possession of a Masters degree or its equivalent at NQF9 level. The entry requirement is 60% for the Masters degree (or equivalent) qualification, as per CPUT policy. Candidates for this qualification will have demonstrated proficiency in the language of publication, substantial theoretical knowledge and in-depth understanding of the proposed specialised area of research, as well as evidence that they are able to conduct independent research.

Programme structure
Research and thesis only

Duration of course
Part-time or full-time: Minimum of 2 years, maximum of 6 years

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New qualifications have been introduced to align with the new Higher Education qualification sub-Framework (HEQSF) as Gazetted by the South African Department of Education on 2 August 2013. This is a requirement placed on all Higher Education institutions in the attempt to keep the curriculum relevant.

The new qualifications ensure that the curriculum offered at CPUT can be directly compared to that of other institutions; not only nationally, but also internationally through the benchmarking process that took place during the development of these new qualifications.

The MTech qualifications have been replaced with Master of Engineering (MEng) and Master of Construction (MCon) qualifications. Pipeline MTech students will be able to continue with their MTech, or convert to the new qualifications. BTech graduates who want to register may be required to complete additional modules as determined by the department.

Pipeline DTech students will be able to continue with their DTech, or convert to the new Doctor of Engineering (DEng).

For more information about the new qualifications please go to the following website: http://www.cput.ac.za/academic/faculties/engineering/new_qualifications
Cartography

MTECH: CARTOGRAPHY

Course aim
Graduates develop the knowledge and skills required to conduct independent research in cartography, and to contribute significantly to knowledge production through the understanding, application and evaluation of existing and new knowledge.

Purpose and rationale of the qualification
To make a significant contribution, through research, to the understanding, application and evaluation of existing knowledge in a specialised area of technology, and to demonstrate a high level of overall knowledge in that specialised area, ranging from fundamental concepts to advanced theoretical or applied knowledge.

Career opportunities
Graduates are employed in research and development, as well as by government and in teaching positions in higher education institutions.

Admissions Requirements
A BTech in Cartography (or an equivalent qualification), with a pass in Research Methodology, is required.

Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

More information is available at:
http://www.cput.ac.za/study/postgraduate-applications

Programme structure
FIFTH YEAR
Research and thesis

Duration of course
Part-Time: Two years

Venue of offering
Bellville Campus

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MASTER OF CONSTRUCTION

Course aim
The course produces experts with integrated technical knowledge and skills, as well as advanced analytical and problem-solving capabilities, in specialised fields of construction, financial control, and policy formulation. The research focus of the department is on community-based research.

Research-based degree
Students conduct supervised research in a specialised area of construction management or quantity surveying and complete a dissertation.

Purpose and rationale of the qualification
This qualification is intended to enable graduates to apply integrated technical knowledge/skills and advanced analysis and problem-solving to a particular specialisation in construction management, quantity surveying, property development and other related fields, through involvement in an applied research project.

Career opportunities
Employment opportunities are many and varied. The main areas of employment are with building contractors and professional quantity surveyors. Opportunities also exist for self-employment, or employment in property development, with mining houses, financial and insurance institutions, with state and semi-state departments and in marketing with retailers and manufacturers in the construction industry.

Admissions Requirements
A 65% aggregate in one of the following BTech qualifications: Construction Management, Construction Management (Facility Management), Construction Management (Health and Safety), Quantity Surveying.
OR
First Degree in a field relevant to construction, with two years related industrial experience.

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Acceptance into the programme is subject to:

- Availability of a supervisor within the selected field of research
- Submission and acceptance of a draft proposal

Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

More information is available at:
http://www.cput.ac.za/study/postgraduate-applications

Professional registration
Graduates may be eligible for particular categories of membership of:

- The Association of South African Quantity Surveyors
- The South African Council for the Project and Construction Management Professions
- The Chartered Institute of Building (CIOB Southern Africa)
- The South African Council for the Quantity Surveying Profession.

Programme structure

**FIFTH YEAR**
Research and thesis

**Duration of course**

**Full-time:** 1 year

**Part-time:** 2 years

**Venue of offering**
Bellville Campus
Engineering: Chemical

MASTER OF ENGINEERING IN CHEMICAL ENGINEERING

Course aim
Graduates develop the knowledge and skills required to conduct independent research in chemical engineering and environmental problems, and to contribute significantly to knowledge production through the understanding, application and evaluation of existing and new knowledge.

New qualifications from 2016
The new Master of Engineering (MEng) is being offered from 2016. The new qualifications ensure that the curriculum offered at CPUT can be directly compared to that of other institutions; not only nationally, but also internationally through the benchmarking process that took place during the development of these new qualifications.

Pipeline MTech students will be able to continue with their MTech, or convert to the new Master of Engineering (MEng). BTech graduates who want to register for the MEng may be required to complete additional modules as determined by the department.

For more information go to the “New Qualifications” link on the Engineering page.

Purpose and rationale of the qualification
This qualification is intended for chemical engineers or technologists working in process related industries. Learners achieving this qualification have the competence to conduct independent research in chemical engineering, and contribute significantly to knowledge production through the understanding, application and evaluation of existing knowledge.

The research problem – its justification, process and outcome – is reported in a thesis that complies with the generally accepted norms at that level.
Career opportunities
Graduates play an important role in the development of new products, new applications for existing products or raw materials, or cheaper ways of making existing products. Concern for the environment, the development of cleaner production technologies, waste minimisation and recycling have become major fields of research in chemical engineering.

Research relates to the technical methods of assessing environmental impacts, including the preparation of emission inventories, air pollutant dispersion modelling, and ambient air and water monitoring. Graduates are employed in research and development in industry, as well as in teaching positions at higher education institutions.

Admissions Requirements
A BTech in Engineering: Chemical (or an equivalent qualification), with a minimum aggregate of 60%, and a pass in Research Methodology, is required. Candidates will be required to complete a module in Research Methodology. Additional modules could be prescribed as determined by the department.

OR
A Level 8 qualification with a minimum aggregate of 60% in the following qualifications:
- A Postgraduate Diploma in Chemical Engineering;
- A Bachelor of Engineering Technology (Honours) in Chemical Engineering;
- A Professional Bachelor of Engineering in Chemical Engineering;
or a related field.

Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

More information is available at:
http://www.cput.ac.za/study/postgraduate-applications

CURRENT RESEARCH PROJECTS INCLUDE THE FOLLOWING:
ENVIRONMENTAL ENGINEERING AND CLEANER PRODUCTION TECHNOLOGY
- Chemical process risk assessment.
- Membrane, ion exchange and biological process developments in environmental and process applications.
MASTER OF ENGINEERING IN CHEMICAL ENGINEERING (continued)

- All aspects of air quality management, including preparation of emission inventories, pollutant dispersion modelling, assessment of air pollutant health risks.
- Pesticide and heavy metal analysis.
- Phyto remediation.

HYDROMETALLURGY, BIOTECHNOLOGY AND GRAVITY SEPARATION
- Sorption of base and heavy metals on porous adsorbents.
- Membrane bio-technology for CE processes.
- Biosorption technologies for heavy metal removal.
- Modelling of in-line pressure jigs.

OIL AND GAS TECHNOLOGY
Fuel cell technology
Analysis and modelling of Polymer electrolyte membrane fuel cells
Biodiesel from agricultural material and waste vegetable oil
Renewable energy from municipal solid wastes
Production of Ultra Clean Fuels from Syngas over gold-based Catalysts
Pipeline Engineering Flow Assurance along transportation pipelines
Sand/ Hydrates/ Wax/ Scales/ Corrosion deposition and management
Production and Processing
Refining, Petrochemical and Storage
Reservoir Modelling and Simulation
Enhanced Oil Recovery studies
Fluid Rheology

Duration of course
**Full-time:** Minimum one year
**Part-time:** Two years

Programme structure
SIXTH YEAR
Research and thesis

Venues of Offering
Bellville Campus
District Six Campus
DOCTOR OF ENGINEERING IN CHEMICAL ENGINEERING

Course aim
Graduates can conduct independent research in the field of chemical engineering, and contribute significantly to the body of knowledge through the understanding, application and evaluation of existing knowledge.

New qualifications from 2016
The new Doctor of Engineering (DEng) is being offered from 2016. The new qualifications ensure that the curriculum offered at CPUT can be directly compared to that of other institutions; not only nationally, but also internationally through the benchmarking process that took place during the development of these new qualifications.

Pipeline DTech students will be able to continue with their DTech, or convert to the new Doctor of Engineering (DEng).

For more information go to the “New Qualifications” link on the Engineering page.

Purpose and rationale of the qualification
This qualification is intended for chemical engineers or technologists working in process related industries. Learners achieving this qualification have the competence to conduct independent research under minimal guidance in the field of chemical engineering, and contribute significantly to knowledge production through the understanding, application and evaluation of existing knowledge. The research problem its justification, process and outcome – is reported in a dissertation that complies with the generally accepted norms for research at that level.

Career opportunities
Graduates follow a career in research and development in industry

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Prof Tunde Ojumu
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DOCTOR OF ENGINEERING IN CHEMICAL ENGINEERING (continued)

and at research institutes. They are also employed in teaching and research positions at higher education institutions.

Admission requirements
An MTech in Chemical Engineering (or an equivalent qualification) is required. OR
A Level 9 Masters qualification in Chemical Engineering or related field.

Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

More information is available at:
http://www.cput.ac.za/academic/faculties/engineering/departments/chemical/research
or http://www.cput.ac.za/study/postgraduate-applications

CURRENT RESEARCH PROJECTS INCLUDE THE FOLLOWING:
ENVIRONMENTAL ENGINEERING AND CLEANER PRODUCTION TECHNOLOGY
• Chemical process risk assessment.
• Membrane, ion exchange and biological process developments in environmental and process applications.
• All aspects of air quality management, including preparation of emission inventories, pollutant dispersion modelling, assessment of air pollutant health risks.
• Pesticide and heavy metal analysis.
• Phyto remediation.

HYDROMETALLURGY, BIOTECHNOLOGY AND GRAVITY SEPARATION
• Sorption of base and heavy metals on porous adsorbents.
• Membrane bio-technology for CE processes.
• Biosorption technologies for heavy metal removal.
• Modelling of in-line pressure jigs.
OIL AND GAS TECHNOLOGY

- Fuel cell technology
- Analysis and modelling of Polymer electrolyte membrane fuel cells
- Biodiesel from agricultural material and waste vegetable oil
- Renewable energy from municipal solid wastes
- Production of Ultra Clean Fuels from Syngas over gold-based Catalysts
- Pipeline Engineering Flow Assurance along transportation pipelines
  - Sand/ Hydrates/ Wax/ Scales/ Corrosion deposition and management
- Production and Processing
  - Refining, Petrochemical and Storage
- Reservoir Modelling and Simulation
  - Enhanced Oil Recovery studies
  - Fluid Rheology

Duration of course
Full-time: Minimum two years
Part-time: Four years

Programme structure
SEVENTH YEAR
Research and thesis

Venues of Offering
Bellville Campus
District Six Campus
Engineering: Civil

MASTER OF ENGINEERING IN CIVIL ENGINEERING

Course aim
The graduate at this level functions independently as a technologist who displays competence as a member of the engineering team in the execution of specialist engineering tasks.

Purpose and rationale of the qualification
A learner achieving this qualification will be competent to conduct research under minimal guidance, and contribute to knowledge production in the engineering environment with success.

Career opportunities
Graduates of this programme follow a career in research and development in industry or may be employed at research institutes. They are also employed in teaching and research positions at higher education institutions.

Admission requirements
A BTech degree (or an equivalent qualification), with an aggregate of 60%, a pass in Research Methodology, and with a good mark for the BTech dissertation, is required. There is limited research supervision capacity in the department therefore the options are also limited. Students are required to have a topic and supervisor before they can enrol.
OR
A Level 8 qualification with a minimum aggregate of 60% in the following qualifications:
• Postgraduate Diploma in Civil Engineering;
• Bachelor of Engineering Technology (Honours) in Civil Engineering;
• Professional Bachelor of Engineering in Civil Engineering;
• or related field.

Contact details
Prof Haldenwang
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Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

More information is available at:
http://www.cput.ac.za/study/postgraduate-applications

Duration of course
Full-time: Minimum one year (Full-time students are preferred)
Part-time: Two years

Programme structure
SIXTH YEAR
Research and thesis

Venues of Offering
Bellville Campus
DOCTOR OF ENGINEERING IN CIVIL ENGINEERING

Course aim
The purpose of this programme is to develop the competence to conduct independent research under minimal guidance in the field of civil engineering. Such research should contribute significantly to the body of knowledge through the understanding, application and evaluation of existing knowledge. The research problem, including its justification, process and outcome, is reported in a dissertation and in scientific publications that comply with the generally accepted norms for research at this level.

Purpose and rationale of the qualification
A learner achieving this qualification will be competent to conduct research independently, and contribute to advanced and significant knowledge production in the field of civil engineering.

Career opportunities
Graduates of this programme follow a career in research and development in industry or may be employed at research institutes. They are also employed in teaching and research positions at higher education institutions.

Admission requirements
An MTech (or equivalent qualification) in Civil Engineering or related field.
OR
A Level 9 Masters qualification in Civil Engineering or related field.

Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

Contact details
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HaldenwangR@cput.ac.za
More information is available at:
http://www.cput.ac.za/study/postgraduate-applications

Duration of course
Full-time: Minimum of two years

Programme structure
SEVENTH YEAR
Research and thesis

Venues of Offering
Bellville Campus
Engineering: Electrical

MASTER OF ENGINEERING IN ELECTRICAL ENGINEERING

Course aim
The course equips students with the necessary knowledge and skills to conduct independent research in (Electrical) and to contribute to knowledge production through the understanding, application and evaluation of existing and new knowledge.

New qualifications from 2016
The new Master of Engineering (MEng) is being offered from 2016. The new qualifications ensure that the curriculum offered at CPUT can be directly compared to that of other institutions; not only nationally, but also internationally through the benchmarking process that took place during the development of these new qualifications.

Pipeline MTech students will be able to continue with their MTech, or convert to the new Master of Engineering (MEng). BTech graduates who want to register for the MEng may be required to complete additional modules as determined by the department. For more information go to the “New Qualifications” link on the Engineering page.

Purpose and rationale of the qualification
A qualifying learner will conduct independent research, under minimum guidance, in a chosen field of (Electrical), and contribute to knowledge production in that field. The research problem, its justification, process and outcome is reported in a dissertation that complies with the generally accepted norms for research at that level.

Career opportunities
Graduates may follow a career in research and development in industry, or may be employed at research institutes. They
are also employed in teaching and research positions at higher education institutions.

**Admission requirements**

A BTech in Electrical Engineering (or an equivalent qualification) with a minimum aggregate of 60%, including Engineering Mathematics 4, with a pass in Research Methodology, is required.

Or

A Level 8 qualification with a minimum aggregate of 60% in the following qualifications:

- Postgraduate Diploma in Electrical Engineering; or
- Bachelor of Engineering Technology (Honours) in Electrical Engineering; or
- Professional Bachelor of Engineering in Electrical Engineering; or
- or related field.

Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

**More information is available at:**
http://www.cput.ac.za/study/postgraduate-applications

**Duration of course**

- **Full-time:** Minimum of one year
- **Part-time:** Minimum of two years

**Programme structure**

**SIXTH YEAR**
Research and thesis

**Venues of Offering**
Bellville Campus
Engineering: Electrical

DOCTOR OF ENGINEERING IN ELECTRICAL ENGINEERING

Course aim
Graduates develop the competence to conduct independent research in the field of (Electrical) and contribute significantly to the body of knowledge through the understanding, application and evaluation of existing knowledge.

New qualifications from 2016
The new Doctor of Engineering (DEng) is being offered from 2016. The new qualifications ensure that the curriculum offered at CPUT can be directly compared to that of other institutions; not only nationally, but also internationally through the benchmarking process that took place during the development of these new qualifications.

Pipeline DTech students will be able to continue with their DTech, or convert to the new Doctor of Engineering (DEng). For more information go to the “New Qualifications” link on the Engineering page.

Purpose and rationale of the qualification
A qualifying learner will conduct independent research, under minimum guidance, in a chosen field of (Electrical), and contribute to knowledge production in that field. The research problem, its justification, process and outcome is reported in a dissertation that complies with the generally accepted norms for research at that level.

Career opportunities
Graduates follow a career in research and development in industry, and are employed at research institutes. They may also find employment in research positions at higher education institutions.

Contact details

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**District Six Campus**
Ms Judy Rogers

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Admission requirements
An MTech (or equivalent qualification) in Electrical Engineering or related field.
OR
A Level 9 Masters qualification in Electrical Engineering or related field.

Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

More information is available at:
http://www.cput.ac.za/study/postgraduate-applications

Duration of course
Full-time: Three years

Venues of Offering
Bellville Campus
Master of Engineering in Mechanical Engineering

Course aim
Graduates will make a contribution, through research, to understanding the application and evaluation of existing knowledge in a specialised area of technology. They will also demonstrate a high level of overall knowledge in that area, ranging from fundamental concepts to advanced theoretical or applied knowledge.

This qualification is offered as either a research-based degree, for which students conduct supervised research in a specialised area of mechanical engineering and complete a dissertation, or a course driven degree, for which students attend classes and complete a research project and paper.

Purpose and rationale of the qualification
This qualification is intended for persons who will make a contribution, through research, to understanding the application and evaluation of existing knowledge in a specialised area of technology. They will also demonstrate a high level of overall knowledge in that area, ranging from fundamental concepts to advanced theoretical or applied knowledge.

Career opportunities
Graduates follow a career in research and development in industry, and may be employed at research institutes. They are also employed in teaching and research positions at higher education institutions.

Admission requirements
A BTech Mechanical Engineering (or an equivalent qualification) with a 60% average is required.
OR

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A Level 8 qualification with a minimum aggregate of 60% in the following qualifications:
- Postgraduate Diploma in Mechanical Engineering; Bachelor of Engineering Technology (Honours) in Mechanical Engineering; or
- Professional Bachelor of Engineering in Mechanical Engineering;
- or related field.

Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

More information is available at:
http://www.cput.ac.za/academic/faculties/engineering/departments/mechanical/research
or
http://www.cput.ac.za/study/postgraduate-applications

CURRENT RESEARCH AREAS
- Computational Mechanics
- Finite Element Analysis
- Computational Fluid Dynamics
- Materials and Microstructure
- Welding Simulation
- Thermo-Mechanical Coupling
- Shape Memory Alloys
- Finite Element Solution Methods for dynamic problems
- Vibrations
- Non-destructive testing
- Shearography
- Thermography
- Mechanical/ Thermal Testing

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MASTER OF ENGINEERING IN MECHANICAL ENGINEERING (continued)

- Computational Mechanics
- Fluids
- Shell Structures

- Micro-Electro-Mechanical Systems
- Shape memory alloys
- Finite Element Analysis
- Unmanned aerial vehicles
- Aerodynamics, mechanical design

- Thermal Problems
- Shape Memory Alloys
- Friction Stir Welding

- Solar Energy
- Renewable Energy

- Systems engineering approach to design
- Mechanical Design
- Aerodynamics

- Energy
- Fluid Mechanics
- Wind Turbines

Duration of course

**Full-time:** Minimum of one year
**Part-time:** Two years

Venues of Offering
Bellville Campus

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Mr Howard T. Fawkes
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Engineering: Mechanical

DOCTOR OF ENGINEERING IN MECHANICAL ENGINEERING

Course aim
Graduates will make a significant and original contribution to knowledge in a specialised area of technology. They will have a high level of overall knowledge in that specialised area, ranging from fundamental concepts to advanced theoretical or applied knowledge.

Purpose and rationale of the qualification
This qualification is intended for persons who will make a significant and original contribution to knowledge in a specialised area of technology. They will have a high level of overall knowledge in that specialised area, ranging from fundamental concepts to advanced theoretical or applied knowledge.

Career opportunities
Graduates follow a career in research and development in industry and may be employed at research institutes. They are also employed in teaching and research positions at higher education institutions.

Admission requirements
MTech Mechanical Engineering (or an equivalent qualification), is required.
OR
A Level 9 Masters qualification in Mechanical Engineering or related field.

Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

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DOCTOR OF ENGINEERING IN MECHANICAL ENGINEERING (continued)

More information is available at:
http://www.cput.ac.za/academic/faculties/engineering/departments/mechanical/research
or
http://www.cput.ac.za/study/postgraduate-applications

CURRENT RESEARCH AREAS

- Computational Mechanics
- Finite Element Analysis
- Computational Fluid Dynamics
- Materials and Microstructure
- Welding Simulation
- Thermo-Mechanical Coupling
- Shape Memory Alloys

- Finite Element Solution Methods for dynamic problems
- Vibrations

- Non-destructive testing
- Shearography
- Thermography
- Mechanical/Thermal Testing

- Computational Mechanics
- Fluids
- Shell Structures

- Micro-Electro-Mechanical Systems
- Shape memory alloys
- Finite Element Analysis
- Unmanned aerial vehicles
- Aerodynamics, mechanical design

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• Thermal Problems
• Shape Memory Alloys
• Friction Stir Welding

• Solar Energy
• Renewable Energy

• Systems engineering approach to design
• Mechanical Design
• Aerodynamics

• Energy
• Fluid Mechanics
• Wind Turbines

Duration of course
Full-time: Minimum of two years

Venues of Offering
Bellville Campus
Engineering: Mechanical
MASTER IN ENGINEERING IN QUALITY

Course aim
The course equips students with the necessary knowledge and skills to conduct independent research in quality implementation, maintenance and improvement, and to contribute to knowledge production through the understanding, application and evaluation of existing and new knowledge.

Purpose and rationale of the qualification
The qualifying learner can conduct independent research under minimal guidance in a chosen quality-related field and contribute to knowledge production in that field. The research problem, its justification, process and outcome are reported in a dissertation which complies with the generally accepted norms for research at this level.

Career opportunities
With globalisation and the opening of international markets, the demand for quality assurance of products and services is at an all-time high, in all sectors of industry, as well as in government sectors. Graduates play an important and direct role in these fields and are employed in research and development in industry. They are also employed in research positions at higher education institutions.

Admission requirements
A BTech in Quality with a pass mark of 65% for Project 4, and 60% average for all the subjects. Minimum of two years relevant industrial experience in the field of Quality. Candidates will be required to complete a module in Research Methodology. Additional modules could be prescribed as determined by the department.
OR
A Level 8 qualification with a minimum aggregate of 60% in the following qualifications:

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Postgraduate Diploma in Industrial Engineering or Engineering Management or Quality or related field; or Bachelor of Engineering Technology (Honours) in Industrial Engineering or Engineering Management or Quality or related field; or Professional Bachelor of Engineering in Industrial Engineering or Engineering Management or Quality; or related engineering field.

Preference will be given to students from Engineering and Applied Sciences

Note that students who wish to apply for Full Thesis postgraduate qualifications must first contact the department to find out if there are staff / facilities available in their research area, before submitting an application, otherwise your application will get the status “Awaiting Supervisor or Research Area”.

More information is available at:
http://www.cput.ac.za/study/postgraduate-applications

Duration of course
Part-time: Two years

Venues of Offering
Bellville Campus
Faculty of Health & Wellness Science
Biomedical Technology

MASTER OF SCIENCE IN BIOMEDICAL TECHNOLOGY

Course aim
The aim of this programme is to equip students with the necessary knowledge and skills to conduct independent research in biomedical technology, and to contribute to knowledge production through the understanding, application and evaluation of existing and new knowledge.

Career opportunities
Qualified medical technologists are employed in laboratories in blood transfusion services, private pathology practices, the National Health Laboratory Services, the Medical Research Council, forensic laboratories, veterinary practices and other disciplines such as pharmaceutical companies.

Opportunities also exist for medical technologists to become involved in research at academic institutions. Registered medical technologists may also apply for a license to practice in a private capacity in their own laboratories.

Programme structure
FIFTH YEAR
Research project and dissertation

Duration of course
Full-time: Minimum of one year
Part-time: Minimum of two years

Venue of offering
Bellville Campus

Contact details
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Biomedical Technology

DOCTOR OF PHILOSOPHY IN BIOMEDICAL SCIENCES

Course aim
The purpose of this programme is to develop the competence to conduct independent and original research in the field of biomedical technology. Such research should contribute significantly to the body of knowledge through the understanding, application and evaluation of existing knowledge.

Career opportunities
Qualified medical technologists are employed in laboratories in blood transfusion services, private pathology practices, the National Health Laboratory Services, the Medical Research Council, forensic laboratories, veterinary practices and other disciplines such as pharmaceutical companies. Opportunities also exist for medical technologists to become involved in research at academic institutions. Registered medical technologists may also apply for a license to practice in a private capacity in their own laboratories.

Programme structure
SIXTH YEAR
Research and thesis

Duration of course
Full-time: Minimum of 2 years
Part-time: Minimum of 2 years

Venue of offering
Bellville Campus

Contact details
Bellville Campus
Faculty Office
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Dental Technology

MASTER OF HEALTH SCIENCE IN DENTAL TECHNOLOGY

Course aim
The purpose of the course is to develop researchers who can contribute to the academic and technical development of dental technology in South Africa and the world. Product development is central, with the intention of developing technology that is suitable for South Africa. Problem solving, independent thinking, entrepreneurship, and leadership are part of the programme.

Career opportunities
Graduates find employment in research and product development, academic institutions, or may conduct their own commercial dental laboratory.

Programme structure
FIFTH YEAR
Research project and dissertation

Duration of course
Full-time: One year
Part-time: Two years

Venue of offering
Tygerberg Hospital Campus

Contact details
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Ms Maureen Anthony
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Emergency Medical Care

MASTER OF EMERGENCY MEDICAL CARE

Course aim
The aim of this qualification is to facilitate development of a researcher to be competent in primary and/ or secondary research in the context of emergency medical care. The research undertaken may serve to show contextual integration of theoretical principles, validate or question proven techniques, document historical or current practical experience, evaluate clinical procedures and skills in order to:

- Understand the theory and praxis of emergency medical care
- Contribute to the theoretical and practical underpinnings of emergency medical care as a profession, health discipline and as an emergent phenomenon
- Influence policy development for the enhancement of emergency care system quality
- Generate an evidence base for best practice in South African emergency medical care education, management and clinical practice that enhances confidence, is contextually relevant, methodologically reliable and responsive to the emergency health care needs of the developing world.

The knowledge of the global and local challenges that face emergency care will render researchers relevant in problem scoping and problem solving through research methods and dissemination of findings. The acquisition of research skills augurs well for a critical and enquiring practitioner that may serve to be an agent of change and social justice. The focus on bio-ethics and research ethics provides a rights-based approach to both data collection and clinical practice. The scarcity of local studies will likely render outputs highly relevant to policy making.

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Career opportunities
Graduates find employment in research and product development, academic institutions, or may conduct their own commercial dental laboratory.

Programme structure
**FIFTH YEAR**
Research project and dissertation

Duration of course
**Full-time:** Minimum of one year  
**Part-time:** Minimum of two years

Venue of offering
Bellville Campus
Nursing

MASTER OF NURSING

Course aim
The aim of this programme is to equip students with the necessary knowledge and skills to conduct independent research in nursing, and to contribute significantly to the field through the understanding, application and evaluation of existing and new knowledge. The research problem, its justification, process and outcome are reported in a dissertation, which complies with the generally accepted international norms at this level.

Career opportunities
Graduates are equipped to actively participate in research activities at various levels, including undertaking doctoral studies. They can also be employed in research and teaching positions at Higher Education Institutions.

Programme structure
FIFTH YEAR
Research project and dissertation

Duration of course
Full-time: Minimum of one year
Part-time: Minimum of two years

Venue of offering
Bellville Campus

Contact details
Bellville Campus
Faculty Office
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Radiography

MASTER OF SCIENCE IN RADIOGRAPHY

Course aim
This qualification is intended to further develop competent researchers who will make a contribution to the body of knowledge, through independent research, in a chosen field of radiography. The research output, in the form of a thesis or suitable alternative, will demonstrate that the researcher has achieved a high level of in-depth knowledge in the research field of radiography. This will include fundamental concepts, advanced theory, scientific competence and applied knowledge.

Career opportunities
A wide range of opportunities exist for graduates in senior clinical positions, research posts or health science education. Employment is available in academic hospitals, community health centres, private and public hospitals both nationally and internationally, research institutes, as well as application specialists. Graduates in radiography can apply to the HPCSA for the right to start a private practice. Other opportunities include post-graduate study:
- Doctor of Radiography
- Specialised short courses
- Higher education qualification

Programme structure
FIFTH YEAR
Research project and dissertation

Duration of course
Full-time: Minimum of one year
Part-time: Minimum of two years

Venue of offering
Bellville campus (only venue of offering)

Contact details
Groote Schuur Hospital Campus
Mr A Speelman
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Tygerberg Hospital Campus
Mrs Carol le Roux
  +27 (0) 21 932 7320
  +27 (0) 21 932 0056
Radiography

DOCTOR OF RADIOGRAPHY

Course aim
The practitioner with this qualification will be a researcher who will make a significant scientific contribution, through independent, original research in a chosen field of radiography. The research outcome of the qualification is a doctoral thesis that complies with the generally accepted norms for research at this level.

Career opportunities
A wide range of opportunities exist for graduates in senior clinical positions, research posts or academic positions. Employment is available in academic hospitals, community health centres, private and public practice both nationally and internationally, research institutes, as medical representatives etc. Graduates in radiography can apply to the HPCSA for the right to start a private practice. Other opportunities include post-graduate study:
- Specialised short courses
- Higher education qualification

Programme structure
SIXTH YEAR
Research and thesis

Duration of course
Full-time: Minimum of two years
Part-time: Minimum of two years

Venue of offering
Bellville Campus (only venue of offering)
Faculty of Informatics & Design
Architectural Technology

MAGISTER TECHNOLOGIAE

RESEARCH ONLY DEGREE
Not for professional registration purposes

Course aim
The aim of this programme is to equip students with the necessary knowledge and skills to conduct independent research, under appropriate supervision, in the field of architectural technology. In addition, it aims to contribute to knowledge production through the understanding, application and evaluation of existing and new knowledge. The research problem, its justification, process and outcome is reported in a thesis that complies with the generally accepted norms for research at this level.

Career opportunities
Graduates play an important and direct role in architectural practices. They are also employed in research and teaching positions at Higher Education institutions.

Programme structure
FIFTH YEAR
Research project and dissertation

Duration of course
Full-time: Minimum of one year
Part-time: Minimum of two years

Venue of offering
District Six Campus

Contact details
District Six Campus
Faculty Office
📞 +27 (0) 21 440 2200
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Design

DOCTOR TECHNOLOGIAE

Course aim
Graduates must provide proof of original and creative thinking and problem-solving, and make a real contribution to the solving of a particular problem in the design industry. This is an advanced qualification based on research, with a duration of at least two years (full or part time). It comprises an advanced research project with a thesis. The research problem, its justification, process and outcome is reported in a thesis that complies with the generally accepted norms for research at this level.

Students can specialise in any one of the following design disciplines: Fashion, Industrial Design, Interior Design, Jewellery Design and Manufacture, Photography, or Surface Design.

Career opportunities
Graduates follow a career in design research and development in industry, or may be employed in teaching and research positions at Higher Education institutions.

Programme structure
SIXTH YEAR
Research project and thesis

Duration of course
Full-time: Minimum of two years
Part-time: Minimum of two years

Venue of offering
District Six Campus

Contact details
District Six Campus
Faculty Office
+27 (0) 21 460 3392
+27 (0) 21 460 3553
Design

MAGISTER TECHNOLOGIAE

Course aim
Graduates conduct independent research under appropriate supervision in a design-related field, and contribute to knowledge production in that field. The research problem, its justification, process and outcome are reported in a dissertation that complies with the generally accepted norms for research at this level. The research problem, its justification, process and outcome is reported in a thesis that complies with the generally accepted norms for research at this level.

This programme encourages students to undertake research, not only across the lines of the different design disciplines, but to provide linkages between design and such diverse disciplines as mechanical and electrical engineering, management, marketing, information technology, and critical design theory. Students can specialise in any one of the following design disciplines: Fashion, Jewellery Design and Manufacture, Photography, or Surface Design. By expanding the applied technology and practical work of existing design degree programmes, the field of design research would be broadened to be more responsive to industry’s needs and changing circumstances, opening up new directions and developments.

Career opportunities
As a research-based qualification this degree allows for a more motivated intervention within the profession and industry, and also opens up broader applications across disciplines, as well as research and teaching positions at Higher Education institutions.

Programme structure
FIFTH YEAR
Research project and dissertation

Duration of course
Full-time: Minimum of one year
Part-time: Minimum of two years

Venue of offering
District Six Campus

Contact details
District Six Campus
Faculty Office
+27 (0) 21 460 3392
+27 (0) 21 460 3553
Interior Design

MAGISTER TECHNOLOGIAE

RESEARCH ONLY DEGREE
Not for professional registration purposes

Course aim
The aim of this programme is to equip students with the necessary knowledge and skills to conduct independent research, under appropriate supervision, in the discipline of interior design, and to contribute to knowledge production through the understanding, application and evaluation of existing and new knowledge. The research problem, its justification, process and outcome are reported in a thesis, that complies with the generally accepted norms for research at this level.

Career opportunities
Graduates play an important and direct role in interior design practices. They are also employed in research and teaching positions at Higher Education institutions.

Programme structure
FIFTH YEAR
Research project and dissertation

Duration of course
Full-time: Minimum of one year
Part-time: Minimum of two years

Venue of offering
District Six Campus

Contact details
District Six Campus
Faculty Office
+27 (0) 21 460 3392
+27 (0) 21 460 3553
Graphic Design

MAGISTER TECHNOLOGIAE

Course aim
The graduate is required to conduct independent research, under appropriate supervision, in the field of visual communication and contribute to knowledge production in that field. The research problem, its justification, process and outcome is reported in a thesis that complies with the generally accepted norms for research at this level.

Career opportunities
The main fields of employment are advertising agencies, design studios, printing and publishing houses. Employment opportunities also exist in government institutions such as museums, library services and medical institutions. Graduates may also be employed in teaching and research positions at Higher Education Institutions. After gaining practical experience, a graphic designer may decide to become self-employed as a freelance designer. Areas of specialisation include digital design, illustration, packaging, corporate identity and photography.

Admission requirements
In addition to the admission requirements (see page 5), prospective students should have achieved above average results in all relevant subjects of their undergraduate degree or, alternatively, must satisfy a panel of staff as to their competence to study at a higher level.

Programme structure
FIFTH YEAR
Research project and dissertation

Duration of course
Full-time: Minimum of one year
Part-time: Minimum of two years

Venue of offering
Bellville Campus

Contact details
Bellville Campus
Faculty Office
+27 (0) 21 959 6356
+27 (0) 21 959 6357
Graphic Design

DOCTOR TECHNOLOGIAE

Course aim
Graduates must provide proof of original and creative thinking and problem-solving, and make a real contribution to the solving of a particular problem in the design industry. This is an advanced qualification based on research, with a duration of at least two years (full or part time). It comprises an advanced research project with a thesis. The research problem, its justification, process and outcome is reported in a thesis that complies with the generally accepted norms for research at this level.

Career opportunities
This research-based qualification allows for a more innovative intervention in the graphic design profession and industry, and also opens up broader applications across disciplines, as well as research and teaching positions at Higher Education Institutions.

Programme structure
SIXTH YEAR
Research project and thesis

Duration of course
Full-time: Minimum of two years
Part-time: Minimum of two years

Venue of offering
Bellville Campus

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Faculty Office
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+27 (0) 21 959 6357
Industrial Design

MAGISTER TECHNOLOGIAE

Course aim
Graduates conduct independent research, under appropriate supervision, in the field of industrial design, and contribute to knowledge production in that field. The research problem, its justification, process and outcome is reported in a thesis which complies with the generally accepted norms for research at this level.

Career opportunities
This qualification, being research-based, allows for a more innovative intervention within the profession and industry, and also opens up broader applications across disciplines, as well as research and teaching positions at Higher Education institutions.

Programme structure
FIFTH YEAR
Research project and dissertation

Duration of course
Full-time: Minimum of one year
Part-time: Minimum of two years

Venue of offering
District Six Campus

Contact details
District Six Campus
Faculty Office
+27 (0) 21 460 3392
+27 (0) 21 460 3553
Information Technology

MASTER OF INFORMATION AND COMMUNICATION TECHNOLOGY (MICT)

Course aim
This is a taught masters programme for candidates that have a Bachelors Honours / NQF Level 8 qualification in Information Technology, Computer Science, Electrical/ Computer Engineering, Information Systems, and other core IT disciplines. Candidates will produce a mini-dissertation at the end of the two years programme. Students may choose one of three options to complete the MICT qualification.

Option 1: Application Development
Students who have a research interest in the broad fields of Software Engineering, Artificial Intelligence, and Data Science may apply for admission into this option.

Option 2: Communication Networks
Students who have a research interest in the fields of Data communication, Computer Networks, Information Technology Infrastructure, Internet of Things, and Distributed Systems may apply for admission into this option.

Option 3: Informatics
Students who have a research interest in the area of application of empirical methods in Information technology, Information Systems, Information Management, and Informatics for specific application domains may apply for admission into this option.

Career opportunities
Graduates may find employment at the senior levels in companies where they make contributions in research and development, operational or strategic aspects of IT/IS. They are also employed in research and teaching positions in Higher Education institutions.

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Faculty Office
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โทร: +27 (0) 21 469 1007
MASTER OF INFORMATION AND COMMUNICATION TECHNOLOGY (MICT) (continued)

Programme structure

FIFTH YEAR
Option 1: Application Development (Coursework and Mini-dissertation)

Option 2: Communication Networks (Coursework and Mini-dissertation)

Option 3: Informatics (Coursework and Mini-dissertation)

Duration of course

Full-time: Minimum of one year
Part-time: Minimum of one year

Venue of offering

District Six Campus
Information Technology

MASTER OF INFORMATION TECHNOLOGY (FULL-THESIS)

Course aim
Graduates will conduct independent research, under appropriate supervision, in the field of Information Technology and Information Systems (IT/IS), and contribute to knowledge production in the fields of Information Technology and Information Systems (IT/IS). Students may choose one of three options to complete the MTech Information Technology.

Option 1: Application Development
Students who have a research interest in the broad fields of Software Engineering, Artificial Intelligence, and Data Science may apply for admission into this option.

Option 2: Communication Networks
Students who have a research interest in the fields of Data communication, Computer Networks, Information Technology Infrastructure, Internet of Things, and Distributed Systems may apply for admission into this option.

Option 3: Informatics
Students who have a research interest in the area of application of empirical methods in Information technology, Information Systems, Information Management, and Informatics for specific application domains may apply for admission into this option.

Career opportunities
Graduates may find employment at the senior levels in companies where they make contributions in research and development, operational or strategic aspects of IT/IS. They are also employed in research and teaching positions in Higher
MASTER OF INFORMATION TECHNOLOGY (FULL-THESIS) (continued)

Education institutions.

Programme structure
FIFTH YEAR
Option 1: Application Development (Research and dissertation)

Option 2: Communication Networks (Research and dissertation)

Option 3: Informatics (Research and dissertation)

Duration of course
Full-time: Minimum of one year
Part-time: Minimum of one year

Venue of offering
District Six Campus
Information Technology

DOCTOR OF INFORMATION AND COMMUNICATION TECHNOLOGY (DICT)

Course aim
Graduates must provide proof of original and creative thinking, and problem-solving skills, and make a real contribution to the solving of a particular problem in the Information Technology (IT) industry. This is a professional doctorate qualification that is based on applied research in the field of Information and Communication Technology (ICT), with a duration of at least two years (full or part-time). It comprises an advanced applied research project with a thesis. An academic background in a core IT discipline at the Bachelors and Masters levels is a prerequisite for admission into the DICT qualification.

Career opportunities
Holders of the Doctor of Information and Communication Technology (DICT) qualification may function as academics at Higher Education institutions, or leaders in research and development, both in commerce and industry and in the public sector.

Programme structure
SIXTH YEAR
Research and Thesis

Duration of course
Full-time: Minimum of two years
Part-time: Minimum of two years

Venue of offering
District Six Campus

Contact details
District Six Campus
Faculty Office
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✉ +27 (0) 21 469 1007
Information Technology

DOCTOR OF PHILOSOPHY IN INFORMATICS

Course aim
Graduates must provide proof of original and creative thinking, and problem-solving skills, and make a real contribution to advancing theoretical knowledge or professional practice in any of the academic fields of Information Technology (IT), Information Systems (IS), Applied Computing. This is a doctorate qualification that accommodates the pursuit of both basic research and applied research in the field of Information Technology, Information Systems, and Applied Computing in general. The programme has a duration of at least two years (full or part-time). It comprises an advanced research project with a thesis. An academic background in a core IT or IS discipline at the Bachelors or Masters level is a prerequisite for admission into the PhD Informatics qualification.

Career opportunities
Holders of the Doctor of Philosophy in Informatics qualification can function as academics at Higher Education institutions, or leaders in research and development, both in commerce and industry and in the public sector.

Programme structure
SIXTH YEAR
Research and Thesis

Duration of course
Full-time: Minimum of two years
Part-time: Minimum of two years

Venue of offering
District Six Campus

Contact details
District Six Campus
Faculty Office
+27 (0) 21 469 1044
+27 (0) 21 469 1007
Rural and Regional Planning

MASTER OF URBAN AND REGIONAL PLANNING
(NQF LEVEL 9)

Course aim
The purpose of the Masters degree in Urban and Regional Planning is to equip students with advanced disciplinary knowledge and research capabilities requisite for comprehending complex societal problems. The qualification particularly aims to equip graduates in areas of planning, development, and research methodology by integrating coursework with research.

Programme structure
Coursework and thesis
The programme comprises the following modules: Advanced Development Theory & Discourse (15 credits); Advanced Planning Theory & Policy (15 credits); Research Training & Methodology (30 credits); and Research Project & Report (120 credits).

Admission requirements
HEQF qualifications
A BTech in Town and Regional Planning or a related field with a minimum aggregate of 60%. The candidates will be required to complete additional prescribed modules at NQF Level 8.

HEQSF qualifications
A postgraduate diploma in Urban and Regional Planning or an equivalent NQF Level 8 qualification in a related field with a minimum aggregate of 60%.

Duration of course
Full-time: One year (minimum)
Part-time: Two years (minimum)

Venue of offering
District Six Campus

Contact details

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Faculty Office
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Department
Thandiswa Madadasana
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Media Studies

MASTER OF PUBLIC RELATIONS AND COMMUNICATION MANAGEMENT (COURSE WORK AND DISSERTATION)

Course aim
To develop effective and strategic professional-industry experts who can identify trends and provide innovative solutions for the Public Relations and Communication industry. The course seeks to produce innovative and dynamic leaders who contribute towards the advancement of knowledge in the field of Public Relations and Communication and are equally prepared for advanced and specialised professional employment.

Career opportunities
Graduates usually follow a career in Public Relations and Communication management.

Admission requirements
A minimum of two years relevant experience. A relevant qualification on NQF Level 8 (either Postgraduate Diploma or Honours degree) with a 60% academic average.

Programme structure
Course work subjects
- Managing communication strategy
- Managing stakeholder communication
- Positioning Organisational relationships
- Technology, communication and stakeholders
- Advanced research Methodology

After completion of the coursework subjects students register for the Research Project in order to complete the qualification.

Duration of course
Full-time and Part-time: Minimum 2 years and maximum 5 years

Venue of offering
District Six Campus

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