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## CONTACT DETAILS

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Brochures for courses offered at the various campuses and application forms may be obtained 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  
P O Box 1906  
Bellville 7535

### STREET ADDRESSES

#### **Bellville Campus**

Symphony Way, Bellville  
Tel +27 (0) 21 959 6911

#### **Cape Town Campus**

Keizersgracht, District VI, Cape Town  
Tel +27 (0) 21 460 3911

#### **Granger Bay**

Beach Road, Mouille Point, Cape Town  
Tel +27 (0) 21 440 5700

#### **Mowbray Campus**

Highbury Road, Mowbray  
Tel +27 (0) 21 680 1500

#### **Wellington Campus**

Jan van Riebeeck Street, Wellington  
Tel +27 (0) 21 864 5200

**Website:** [www.cput.ac.za](http://www.cput.ac.za)

## GENERAL INFORMATION

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### INTRODUCTION

This guide is intended for students who wish to register for postgraduate (master's and doctoral) studies at the Cape Peninsula University of Technology.

The Master of Technology, *Magister Technologiae* (MTech), and Doctor of Technology, *Doctor Technologiae* (DTech) are evaluated by the Department of Education at the level of a senior certificate plus five years' tertiary education (M+5), and a National Senior Certificate plus six years' tertiary education (M+6), respectively. The Faculty of Education and Social Sciences offers the MEd and DEd degrees.

### 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

Prof M Mc Pherson, Tel: (021) 460 8333, Email: mcphersonm@cput.ac.za

#### FACULTY OF BUSINESS

Prof A Slabbert, Tel: (021) 460 3112, Email: slabberta@cput.ac.za

#### FACULTY OF EDUCATION AND SOCIAL SCIENCES

Prof R Chetty, Tel: (021) 680 1532, Email: chettyr@cput.ac.za

#### FACULTY OF ENGINEERING

Mrs T Green , Tel: (021) 959 6666, Email: greent@cput.ac.za

#### FACULTY OF HEALTH AND WELLNESS SCIENCES

Prof E Truter, Tel: (021) 959 6570, Email: trutere@cput.ac.za

#### FACULTY OF INFORMATICS AND DESIGN

Prof P van Brakel, Tel: (021) 469 1015, Email: vanbrakelp@cput.ac.za

### GUIDE TO POSTGRADUATE STUDIES

The Guide to Postgraduate Studies is available on the CPUT web site:  
<http://www.cput.ac.za>

Course information and an electronic application form (to be printed and completed by the applicant) are available on the University's web site: [www.cput.ac.za](http://www.cput.ac.za)

## MINIMUM ADMISSION REQUIREMENTS

### ***Magister Technologiae***

A BTech or an equivalent qualification in an appropriate discipline, with an aggregate of 65% 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 programme. In some disciplines relevant work experience after obtaining a BTech or similar degree is required.

### ***Doctor Technologiae***

An MTech or equivalent qualification in an appropriate discipline. Delivery of a paper at a conference as well as a paper submission for publication is a prerequisite in most disciplines.

### ***Approval by Higher Degrees Committee***

The title of the dissertation/thesis, as well as the names and qualifications of the appointed supervisors, must be approved by the Higher Degrees Committee.

### ***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.

## 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 in order to have them evaluated and equated to a South African 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

Web site: [www.saqqa.org.za](http://www.saqqa.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 the South African Qualification Authority in Pretoria.

In addition to the above, the candidate also has to apply to the SA Trade Representative closest to his/her home for a study permit if the candidate is not a South African citizen.

## AGRICULTURE

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### MAGISTER TECHNOLOGIAE

#### Course aim

The aim of this programme is to equip students with the necessary knowledge and skills to conduct research in agriculture, 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 follow career paths in agricultural research, extension, quality control, or the agricultural input and marketing industries, depending on their field of specialisation.

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#### Programme Structure:

Research project and dissertation

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#### Duration of course

Full-time: One year

Part-time: Two years

#### CONTACT DETAILS

##### Cape Town Campus

Faculty Office

Tel +27+21 460 3153

Fax +27+21 460 3217

Email: sciences@cput.ac.za

##### Wellington Campus

Head of Department

Tel +27 +21 864 5213

Fax +27 +21 864 5273

## CHEMISTRY

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### MAGISTER TECHNOLOGIAE

#### 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 understanding, application and evaluation of existing and new knowledge.

#### Career opportunities

The need for new products, new applications of existing products or raw materials is rapidly increasing. An 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.

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#### Programme structure

Research project and dissertation

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#### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

### CONTACT DETAILS

#### Bellville Campus

Faculty Office

Tel +27 +21 959 6523

Fax +27 +21 959 6118

Head

Tel +27 +21 959 6193

Fax +27 +21 959 6165

#### Cape Town Campus

Faculty Office

Tel +27 +21 460 3176

Fax +27 +21 460 3217

Email: sciences@cput.ac.za

Head

Tel +27 +21 460 3174

Fax +27 +21 460 3854

## CHEMISTRY

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### DOCTOR TECHNOLOGIAE

#### 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 understanding, 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.

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#### Programme structure

Research and thesis

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#### Duration of course

Full-time: Two years minimum, after completion of the MTech degree

#### CONTACT DETAILS

##### Bellville Campus

Faculty Office

Tel +27 +21 959 6523

Fax +27 +21 959 6118

Head

Tel +27 +21 959 6193

Fax +27 +21 959 6165

##### Cape Town Campus

Faculty Office

Tel +27 +21 460 3176

Fax +27 +21 460 3217

Email: sciences@cput.ac.za

Head

Tel +27 +21 460 3174

Fax +27 +21 460 3854



## CONSUMER SCIENCE: FOOD & NUTRITION

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### MAGISTER TECHNOLOGIAE

#### Course aim

Graduates conduct a research study in the consumer science (food and nutrition) fields to contribute to existing knowledge, generate new knowledge, evaluate and/or improve current practices to support growth and development in this applied sciences field. The research problem, including its justification, process and outcome, is reported in a thesis, which complies with generally accepted international norms at this level.

#### 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.

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#### Programme structure

Research project and thesis

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#### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

### CONTACT DETAILS

#### Cape Town Campus

Faculty Office

Tel +27 +21 460 3176

Fax +27 +21 460 3217

Email: sciences@cput.ac.za

Head

Tel +27 +21 460 3428

Fax +27 +21 460 3217

## ENVIRONMENTAL HEALTH

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### MAGISTER TECHNOLOGIAE

#### Course aim

Students conduct independent research finding the best solutions for environmental health problems in South Africa.

The programme equips students with the necessary knowledge and skills to conduct independent research in environmental and occupational health, and to contribute to knowledge production through the understanding, application and evaluation of existing and new knowledge. Students conduct independent supervised research and complete a dissertation.

#### Career opportunities

Graduates play an important, direct role in the field of environmental and occupational health, are employed in research and development and in the health and safety departments of companies or local authorities as well as in teaching positions at Higher Education institutions.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Full-time: Minimum of one year (Research-based) or two years (Course-driven)

Part-time: Minimum of two years

#### CONTACT DETAILS

##### Cape Town Campus

Faculty Office

Tel +27 21 460 3153

Fax + 27 + 21 460 3217

Head

Tel +27 +21 460 3199/94

Fax +27 21 460 3217

Email: sciences@cput.ac.za

# ENVIRONMENTAL MANAGEMENT

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## MAGISTER TECHNOLOGIAE

### Course aim

The aim of the course, a structured, course-driven Master's degree, is to train managers and researchers in the field of Environmental Management.

### Career opportunities

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

### Programme structure

#### Core subjects

Sustainability and Environmental Law  
 Environmental Resource Economics  
 Air Quality Management  
 Water Quality Management  
 Tools for Sustainable Development  
 Environmental Risk Assessment  
 Research Project and paper

#### Select three of the following electives:

Marine and Coastal management	Environmental Health and Safety
Environmental Planning (GIS)	Research and Advance Data Analysis
Urbanisation and Development	Environmental Management Systems, Reporting and Auditing

### Duration of course

Part-time: Two years

### CONTACT DETAILS

#### Cape Town Campus

Faculty Office  
 Tel +27 +21 460 3153  
 Fax +27 +21 460 3217  
 Email: sciences@cput.ac.za

Head  
 Tel +27 +21 460 9009  
 Fax +27 +21 460 3217

## ENVIRONMENTAL HEALTH

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### DOCTOR TECHNOLOGIAE

#### Course aim

The purpose of this programme is to develop the competence to conduct independent research under guidance in the relatively new field of environmental health technology. 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 thesis.

#### 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.

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#### Programme structure

Research and thesis

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#### Duration of course

Full-time: Two years

Part-time: Three years

#### CONTACT DETAILS

##### Cape Town Campus

Head

Tel +27 +21 460 3199/94

Fax +27 21 460 3217

Email: sciences@cput.ac.za

## FOOD TECHNOLOGY

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### MAGISTER TECHNOLOGIAE

#### Course aim

The aim of the course is to equip graduates with the necessary knowledge and skills to conduct independent applied and fundamental research in the fields of food production, food product development, food analysis, food safety and food microbiology.

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

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#### Programme structure

Research project and dissertation

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#### Duration of course

Full-time: Minimum one year

Part-time: Two years

#### CONTACT DETAILS

Head

Tel +27 +21 959 6176

Fax +27 +21 959 6095

Faculty Office

Tel +27 +21 460 3176

Fax +27 +21 460 3217

Email: sciences@cput.ac.za

## HORTICULTURE

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### MAGISTER TECHNOLOGIAE

#### Course aim

The aim of the course is to develop a skilled graduate 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 Master's 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 metro-poles. In addition, for those graduates with a desire to do research, the SA National Biodiversity Institute, the Agricultural Research Council and commercial plant development enterprises, are important employers.

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#### Programme structure

Research project and dissertation

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#### Duration of course

Full-time: One year

Part-time: Two years

#### CONTACT DETAILS

##### Bellville Campus

Faculty Office

Tel +27 +21 460 3153

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Head

Tel +27 +21 9596174

Fax +27 +21 9596095

##### Cape Town Campus

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Tel +27 +21 460 3153

Fax +27 +21 460 3217

Email: sciences@cput.ac.za

Headr

Tel +27 +21 460 3198

Fax +27 +21 460 3193

# NATURE CONSERVATION

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## MAGISTER TECHNOLOGIAE

### Course aim

Students undertake in-depth research and complete a dissertation in a specialist area of nature conservation.

The Master's degree in Nature Conservation equips students with the necessary knowledge and skills to conduct research in nature conservation, 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

Management of research, environmental education, ecotourism, law enforcement, protected areas and alien plant control.

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### Programme structure

Research project and dissertation

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### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

### CONTACT DETAILS

Head of Department

Tel +27 +21 460 3213

Fax +27 +21 460 3193

Email: sciences@cput.ac.za

Faculty Office

Tel +27 +21 460 3153

Fax +27 +21 460 3217

## OCEANOGRAPHY

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### MAGISTER TECHNOLOGIAE

#### Course aim

The aim of the programme is to equip students with the knowledge and skills to conduct research in oceanography, 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 are employed as senior oceanographers, researchers, or fisheries managers.

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#### Programme structure

Research project and dissertation

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#### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

#### CONTACT DETAILS

##### Cape Town Campus

Faculty Office

Tel +27 +21 460 3153

Fax +27 +21 460 3217

Email: sciences@cput.ac.za

Head

Tel +27 +21 460 3766

Fax +27 +21 460 3193



## BUSINESS ADMINISTRATION

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### 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 speed 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.

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#### Programme structure

Strategic Management 5	Project Management 5
Organisational Dynamics 5	Entrepreneurship 5
Research Methodology 5	Research project and paper

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#### Duration of course

**Part-time: Minimum 18 months; maximum five years**

#### CONTACT DETAILS

##### Cape Town Campus

Ms Z Nkalitshana

Tel +27 +21 460 4251

Fax +27 +21 460 3716

Email [nkalitshanaz@cput.ac.za](mailto:nkalitshanaz@cput.ac.za)

## BUSINESS ADMINISTRATION IN ENTREPRENEURSHIP

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### 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. Students may choose one of two options to complete the MTech Business Administration in Entrepreneurship:

**Option 1 – Research-based degree:** Students conduct supervised research in a specialised area of entrepreneurship and complete a thesis.

**Option 2 – Course-driven degree:** This programme consists of course work (class attendance) and a research project and paper.

#### 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.

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#### Programme Structure

##### **Option 1 – Research-based degree**

Research project and dissertation

##### **Option 2 – Course-driven degree**

Entrepreneurship 5

Finance for Entrepreneurs 5

Entrepreneurship Techniques 5

Research Methodology 5

Research project and paper

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#### Duration of Course

Part-Time: Two years (Maximum period: Five years)

#### Venue of Offering

Cape Town Campus

#### CONTACT DETAILS

##### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### Programme Co-ordinator

Tel +27 +21 460 3028

# BUSINESS ADMINISTRATION IN PROJECT MANAGEMENT

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## MAGISTER TECHNOLOGIAE

### 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.

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### Programme structure

Project Management Process 5	Project Accounting 5
Project Quality 5	Project Resources 5
Project Ethics and Governance 5	Operation Research5
Research project and paper	

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### Duration of course

Part-time: Two years

### Venue of offering

Cape Town Campus

### CONTACT DETAILS

#### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

## BUSINESS INFORMATION SYSTEMS

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### MAGISTER TECHNOLOGIAE

#### Course aim

The Master's degree in Business Information Systems (BIS) is designed to provide business, management and technical expertise with a bridge between management and operations by incorporating the design, development, and implementation of integrated business systems – including information, financial, enterprise and web-based systems that support strategic decision making, e-Commerce, e-Government and e-Business.

#### 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.

Students may choose one of two options to complete the MTech Business Administration in Entrepreneurship:

#### **Option 1 – Research-based degree**

Students conduct supervised research in a specialised area of BIS and complete a dissertation.

#### **Option 2 – Course-driven degree**

This programme consists of course work (class attendance) and a research project and paper.

---

#### Programme structure

#### **Option 1 – Research-based degree**

Research and dissertation

#### **Option 2 – Course-driven degree**

#### Compulsory modules:

Information Technology in Business  
Business Process Design  
Project Management  
Integrative Industrial Thought  
Knowledge Management  
Database Systems and Data Management Business Systems  
Computer Models for Business Decisions Business Systems  
Research Methods / Writing / Proposal  
Software Systems Design and Development

Enterprise Resource Planning Systems: Business Systems  
Research project and paper

**Two electives from:**

Human Resource Information Systems  
Business Information Systems in – Marketing  
Business Information Systems in - Finance  
Applied e-Business  
Contemporary Issues In Business Information Systems  
Multimedia in Business  
Integrated Economic Policy

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**Duration of course**

Part-time: 2 years (2 x 4-day contact sessions per semester: February–June and July–November)

**CONTACT DETAILS:**

**CONTACT DETAILS**

**Faculty Office**

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

**Head of Department**

Tel +27 +21 460 3291

## **COST AND MANAGEMENT ACCOUNTING**

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### **MAGISTER TECHNOLOGIAE**

#### **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.

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#### **Programme structure**

Research project and dissertation

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#### **Duration of course**

Full-time: Minimum one year

Part-time: Minimum two years

#### **CONTACT DETAILS**

##### **Cape Town Campus**

##### **Faculty Office**

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### **Head of Department**

Tel +27 +21 460 3477

# FOOD AND BEVERAGE MANAGEMENT

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## 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 program 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 in-depth 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.

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### Programme structure

Research project and dissertation

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### Duration of course

Minimum Full-Time: 1 Year

Minimum Part-time: 2 Years

Maximum duration: 5 years

**Venue of offering**

Cape Town Campus

**CONTACT DETAILS**

**Faculty Office**

Tel +27 +21 460 4251/3876

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Email [business@cput.ac.za](mailto:business@cput.ac.za)

**Head of Department**

Tel +27 +21 440 5771



# HUMAN RESOURCE MANAGEMENT

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## MAGISTER TECHNOLOGIAE

### Course aim

Students may choose one of two options to complete the MTech Human Resource Management.

### ***Option 1 – Research-based degree***

Students conduct supervised research in a specialised area of human resource management and complete a dissertation.

### ***Option 2 – Course-driven degree***

This programme consists of course work (class attendance) and a research project and paper.

### Admission requirements

In addition to the admission requirements on page 5, at least three years' relevant work experience after obtaining a BTech or similar degree, is required.

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### Programme structure

#### Option 1: Research-based degree

Research project and dissertation

OR

#### Option 2: Course-driven degree

Five core subjects as well as a research project and paper

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### Duration of course

Part-time: Two years

### Venue of offering

Cape Town Campus

### CONTACT DETAILS

#### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

#### Programme Co-ordinator

Tel +27 +21 460 3301

## HUMAN RESOURCE MANAGEMENT

---

### DOCTOR TECHNOLOGIAE

#### Course aim

The purpose of this programme is to develop the competence to conduct independent research in the field of human resource development. 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.

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#### Programme structure

Research and thesis

---

#### Duration of course

Part-time: Minimum of two years

#### CONTACT DETAILS

##### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### Programme Co-ordinator

Tel +27 +21 460 3301

## INTERNAL AUDITING

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### MAGISTER TECHNOLOGIAE

#### 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.

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#### Programme structure

Research project and dissertation

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#### Duration of course

Full-time: Minimum one year

Part-time: Minimum two years

#### CONTACT DETAILS

##### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### Head of Department

Tel +27 +21 460 3477

## INTERNAL AUDITING

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### DOCTOR TECHNOLOGIAE

#### 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.

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#### Programme structure

Research and thesis

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#### Duration of course

Full-time: Minimum two years

Part-time: Minimum two years

#### CONTACT DETAILS

##### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### Head of Department

Tel +27 +21 460 3477

## MARKETING

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### MAGISTER TECHNOLOGIAE

#### 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.

#### Programme structure

Research-and dissertation

Research Methodology 5 – including the development of a research proposal

#### Duration of course

Full-time: One year

Part-time: Two years

#### Venue of offering

Cape Town Campus

#### CONTACT DETAILS

##### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### Head of Department

Tel +27 +21 460 3306

## MARKETING

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### DOCTOR TECHNOLOGIAE

#### 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.

#### Admission requirements

An MTech in Marketing with an average of 60% (or an equivalent qualification) is required.

#### Programme structure

Research and thesis

#### Duration of course

Part-time: Minimum of two years

#### Venue of offering

Cape Town Campus

#### CONTACT DETAILS

##### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### Head of Department

Tel +27 +21 460 3306

## OFFICE MANAGEMENT & TECHNOLOGY

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### MAGISTER TECHNOLOGIAE

#### Course aim

The aim of this programme is to equip students with the necessary knowledge and skills to conduct independent research in office management and technology, and to contribute to knowledge production through the understanding, application and evaluation of existing and new knowledge. Students conduct independent supervised research and complete a dissertation. Students who have a research interest in any OMT field may apply for admission to the research-based degree.

#### 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.

#### Additional admission requirements

A BTech in Office Management and Technology (or equivalent qualification) is required. Students applying for the e-Business specialisation are also required to have a demonstrable interest in the information systems environment.

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#### Programme structure

Research project and dissertation

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#### Duration of course

Full-time: Minimum of two years

Part-time: Minimum of two years

#### Venue of offering

Cape Town Campus

### CONTACT DETAILS

#### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

#### Head of Department

Tel +27 +21 460 3113

## OFFICE MANAGEMENT & TECHNOLOGY

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### 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.

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#### Programme structure

Research and thesis

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#### Duration of course

Full-time: Minimum of two years.

Part-time: Minimum of two years.

#### Venue of offering

Cape Town Campus

#### CONTACT DETAILS

##### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### Head of Department

Tel +27 +21 460 3113



## PUBLIC MANAGEMENT

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### MAGISTER TECHNOLOGIAE

#### 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 (para-statal) and non-profit organisations, educational institutions, the diplomatic corps or in political journalism.

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#### Programme structure

##### Option 1: Research-based degree

Research project and dissertation

##### Option 2: Course-driven degree

Seven subjects as well as a research project and paper

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#### Duration of course

Part-time: Two years

#### Venue of offering

Cape Town Campus

#### CONTACT DETAILS

##### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### Head of Department

Tel +27 +21 460 3173

## PUBLIC MANAGEMENT

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### DOCTOR TECHNOLOGIAE

#### 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.

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#### Programme structure

Research and thesis

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#### Duration of course

Part-time: Minimum of two years

#### Venue of offering

Cape Town Campus

#### CONTACT DETAILS

##### Faculty Office

Tel +27 +21 460 4251/3876

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Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### Head of Department

Tel +27 +21 460 3173

## RETAIL BUSINESS MANAGEMENT

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### MAGISTER TECHNOLOGIAE

#### 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.

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#### Programme structure

Research project and dissertation

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#### Duration of course

Part-time: Two years

#### Venue of offering

Cape Town Campus

#### CONTACT DETAILS

##### Faculty Office

Tel +27 +21 460 4251/3876

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Email [business@cput.ac.za](mailto:business@cput.ac.za)

##### Head of Department

Tel +27 +21 460 3028

# SPORTS MANAGEMENT

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## MAGISTER TECHNOLOGIAE

### Course aim

The MTech Sports 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 evolution 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, research and technology development.

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### Programme structure

Research and dissertation

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### Duration of course

Part-time: Minimum of two years, maximum of five years

## CONTACT DETAILS

### Faculty Office

Tel +27 +21 460 4251/3876

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### Head of Department

Prof S Davies

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Fax +27 +21 680 1562

# TOURISM AND HOSPITALITY MANAGEMENT

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## MAGISTER TECHNOLOGIAE

### Course aim

The Master's 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.

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### Programme structure

#### Option 1: Research-based degree

Research project and dissertation

OR

#### Option 2: Course-driven degree

Three core subjects and three electives as well as a research project and paper.

Not all electives will be offered every year.

## **FIRST YEAR**

### **Core modules**

Overview of Tourism and Hospitality  
Marketing Strategies in the Tourism /Hospitality Field  
Resources Management in the Tourism/Hospitality Field

### **Electives**

Choose any three of the following modules:  
Entrepreneurship  
Hospitality and Tourism Operations Development  
Hospitality Operations Management  
Food and Beverage Management  
Accommodation Structure and Organisation  
Management of Events  
Quality Environmental Management  
Tourism Development and Planning  
Services Management  
Community and Cultural Tourism

## **SECOND YEAR**

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.

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### **Duration of course**

Research-based: One year  
Course-driven: Two years.  
Maximum: Five years

### **CONTACT DETAILS**

#### **Faculty Office**

Tel +27 +21 460 4251/3876  
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Email [business@cput.ac.za](mailto:business@cput.ac.za)

#### **Head of Department**

Ms M Silo  
Tel +27 +21 460 90673022

# TOURISM AND HOSPITALITY MANAGEMENT

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## 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.

### Admission requirements

The applicant must have a Magister in Technologiae in Tourism & Hospitality Management or an equivalent qualification. Special cases will be referred to the discretion of the Head of Department or the Research Committee of the Faculty of Business.

### 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.

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### Programme structure

Research project and thesis

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### Duration of course

Minimum: Two years

Maximum: Six years

### Venue of offering

Cape Town Campus

### CONTACT DETAILS

#### Faculty Office

Tel +27 +21 460 4251/3876

Fax +27 +21 460 3716

Email [business@cput.ac.za](mailto:business@cput.ac.za)

#### Head of Department

Ms M Silo

Tel +27 +21 460 9067/3022

## EDUCATION

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### MAGISTER EDUCATIONIS

#### Course aim

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

#### Career opportunities

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

#### Admission requirements

Applicants who wish to enrol for this qualification should be in possession of an honours degree or its equivalent at NQF7 level.

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#### Programme structure

Research project and dissertation

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#### Duration of course

Full-time: One year (Research project and dissertation only)

Part-time: Two years

### CONTACT DETAILS

#### Bellville Campus

Tel +27 +21 959 6362

Fax +27 +21 959 6068

#### Mowbray Campus

Tel +27 +21 680 1585

Fax +27 +21 680 1509

#### Wellington Campus

Tel +27 +21 864 5220

Fax +27 +21 864 5253



## EDUCATION

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### DOCTOR EDUCATIONIS

#### Course aim

The purpose of this programme is to develop the competence to conduct independent research under minimal guidance 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.

The Doctor Educationis is a postgraduate qualification 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.

#### Career opportunities

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

#### Admission requirements

Candidates for this qualification will already have demonstrated the necessary linguistic competence, theoretical knowledge and understanding and research ability required for study at this level.

More specifically, students at this level 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.

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#### Programme structure

Research and thesis

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#### Duration of course

Part-time: Minimum of two years

### CONTACT DETAILS

#### Bellville Campus

Tel +27 +21 959 6732/6245

Fax +27 +21 959 6068

#### Mowbray Campus

Tel +27 +21 680 1500/1585

Fax +27 +21 680 1509

#### Wellington Campus

Tel +27 +21 864 5220/5234

Fax +27 +21 864 5268

## CARTOGRAPHY

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### MAGISTER TECHNOLOGIAE

#### 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.

#### Career opportunities

Graduates are employed in research and development, as well as by government and in teaching positions in Higher Education institutions.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Part-time: Two years

#### Venue of offering

Bellville Campus

#### CONTACT DETAILS

##### Bellville Campus

Faculty Office

Tel +27 +21 959 6653

Fax +27 +21 959 6612

# CONSTRUCTION MANAGEMENT, CONSTRUCTION MANAGEMENT (FACILITY MANAGEMENT), OR QUANTITY SURVEYING

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## MAGISTER TECHNOLOGIAE

### Course aim

The course produces experts with integrated technical knowledge and skills, with advanced analytical and problem-solving capabilities, in specialised fields of construction, financial control, and policy formulation.

Students conduct supervised research in a specialised area of construction management, facility management or quantity surveying and complete a dissertation.

### Career opportunities

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

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### Programme structure

#### FIFTH YEAR

Research project and dissertation

#### Research areas:

Housing  
Project Management  
Facility Management  
Project Delivery  
Community Development  
Project Costing  
Maintenance Management

#### Acceptance into the programme is subject to:

- Availability of a supervisor
- Applicants meeting the academic requirements of the supervisor

#### Professional registration

Graduates may be eligible for particular categories of membership of the Chartered

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

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**Duration of course**

Full-time: Two years

Part-time: Three years

**Venue of offering**

Bellville Campus

**CONTACT DETAILS**

**Bellville Campus**

Tel +27 +21 959 6631

Fax +27 +21 959 6656

Email: [danielsch@cput.ac.za](mailto:danielsch@cput.ac.za)

## ENGINEERING: CHEMICAL

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### MAGISTER TECHNOLOGIAE

#### 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 chemical engineering knowledge.

#### Career opportunities

Graduates play an important role in the development of new products, new applications for existing products and raw materials, more cost effective ways of making existing products in the following areas which are also the research interests in the Chemical Engineering Department: bioprocessing, bioreactor technology, heterogeneous catalysis, hydrometallurgy, minerals processing, wastewater treatment, food processing, fuel cell technology, renewable energy, and oil and gas.

Graduates are employed in research and development in industry, as well as in teaching positions at Higher Education Institutions.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

#### Research areas: (MTech and DTech)

##### Environmental Engineering and Bioproducts Technology

- Chemical process risk assessment
- Membrane, ion exchange and biological process developments in environmental and process applications
- Pesticide and heavy metal analysis
- Waste water treatment
- Water re-use with membrane technology
- Food Processing and bioproducts (Rheology, Food properties, Dehydration processes)
- Biosorption of heavy metal removal in water treatment

##### Hydrometallurgy, Biotechnology and Mineral Processing

- Sorption of base and heavy metals on porous adsorbents
- Membrane Bioreactor technology
- Bioleaching of solid mineral
- Extraction of precious metals from aqueous solution in supercritical fluids

**Oil and Gas Technology**

- Fuel cell technology
  - Analysis and modeling 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
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**Duration of course**

Full-time: Minimum one year

**Venues of offering**

Bellville Campus

Cape Town Campus

**CONTACT DETAILS**

**Bellville Campus**

Faculty Office

Tel +27 +21 959 6523

Fax +27 +21 959 6118

Prof Tunde Ojumu

Tel +27 +21 959 6083

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**Cape Town Campus**

Faculty Office

Tel +27 +21 460 3043

Fax +27 +21 460 3706

Prof Tunde Ojumu

Tel +27 +21 460 3162

Fax +27 +21 460 3282

## ENGINEERING: CHEMICAL

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### DOCTOR TECHNOLOGIAE

#### 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.

#### Career opportunities

Graduates play an important role in the development of new products, new applications for existing products and raw materials, more cost effective ways of making existing products in the following areas which are also the research interests in the Chemical Engineering Department: bioprocessing, bioreactor technology, heterogeneous catalysis, hydrometallurgy, minerals processing, wastewater treatment, food processing, fuel cell technology, renewable energy, and oil and gas.

Graduates are employed in research and development in industry, as well as in teaching positions at Higher Education Institutions.

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#### Programme structure

##### SIXTH YEAR

Research and thesis

**Research areas:** See page 45

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#### Duration of course

Full-time: Minimum two years

#### Venues of offering

Bellville Campus

Cape Town Campus

#### CONTACT DETAILS

##### Bellville Campus

Faculty Office

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Prof Tundu Ojumu

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Fax +27 +21 460 3282

## ENGINEERING: CIVIL

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### MAGISTER TECHNOLOGIAE

#### 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.

#### 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.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Full-time: Minimum one year

Part-time: Two years

#### Venue of offering

Bellville Campus

#### CONTACT DETAILS

##### Bellville Campus

Faculty Office

Tel +27 +21 959 6653

Fax +27 +21 959 6612

Ms A Kamalie

Tel +27 +21 959 6650

Fax +27 +21 959 6660



## ENGINEERING: CIVIL

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### DOCTOR TECHNOLOGIAE

#### 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.

#### 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.

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#### Programme structure

##### SIXTH YEAR

Research and thesis

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#### Duration of course

Full-time: Minimum of two years

#### Venue of offering

Bellville Campus

#### CONTACT DETAILS

##### Bellville Campus

Faculty Office

Tel +27 +21 959 6653

Fax +27 +21 959 6612

Ms A Kamalie

Tel +27 +21 959 6650

Fax +27 +21 959 6660

## ENGINEERING: ELECTRICAL

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### MAGISTER TECHNOLOGIAE

#### Course aim

The course equips students with the necessary knowledge and skills to conduct research in electrical engineering, and to contribute to knowledge production through the understanding, application and evaluation of existing and new knowledge.

#### 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.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

The University has entered into an agreement with the French South African Institute of Technology to offer MTech students who have completed the MTech research degree, the option to complete additional coursework and to graduate with an MTech (issued by CPUT) and a Master of Science in Electronic Engineering (issued by Groupe École Supérieure d'Ingénieurs en Électronique et Électronique) – recognised in Europe.

The coursework in space technology and associated fields for the additional qualification is offered at the Bellville Campus only.

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#### Duration of course

**MTech only:** 12 to 18 months

**Dual course:** 18 to 24 months.

#### Venues of offering

Bellville Campus

Cape Town Campus

#### CONTACT DETAILS

##### Bellville Campus

Ms Cindy Engel

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Email: engelcl@cput.ac.za

##### Cape Town Campus

Ms Judy Rogers

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Fax +27 +21 460 3705

Email: rogersj@cput.ac.za

## ENGINEERING: ELECTRICAL

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### DOCTOR TECHNOLOGIAE

#### Course aim

Graduates develop the competence to conduct independent research in the field of electrical engineering, and contribute significantly to the body of knowledge through the understanding, application and evaluation of existing knowledge.

#### 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.

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#### Programme structure

##### SIXTH YEAR

Research and thesis

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#### Duration of course

Full-time: Three years

#### Venues of offering

Bellville Campus

Cape Town Campus

#### CONTACT DETAILS

Ms Cindy Engel

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## ENGINEERING: MECHANICAL

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### MAGISTER TECHNOLOGIAE

#### 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. Students may choose one of two options to complete the MTech: Engineering: Mechanical.

**Option 1: Research-based Degree:** Students conduct supervised research in a specialised area of mechanical engineering and complete a dissertation.

**Option 2: Course-driven Degree:** This programme consists of course-work (class attendance) and a research project and paper.

#### 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.

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#### Programme structure

##### FIFTH YEAR

##### Option 1

Research project and dissertation

##### Option 2

Strength of Materials 5

Theory of Structures 5

Metallurgical Thermodynamics 5

Research project and paper

Engineering Mathematics 5

Information Technology 5

Engineering Management 5

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#### Duration of course

Full-time: Minimum of one year

Part-time: Two years, including 18 months of course work

#### Venue of offering

Bellville Campus

#### CONTACT DETAILS

##### Bellville Campus

Tel +27 +21 959 6496

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## ENGINEERING: MECHANICAL

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### DOCTOR TECHNOLOGIAE

#### 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.

#### 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.

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#### Programme structure

##### SIXTH YEAR

Research and thesis

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#### Duration of course

Full-time: Minimum of two years

#### Venue of offering

Bellville Campus

#### CONTACT DETAILS

##### Bellville Campus

Tel +27 +21 959 6496

Fax +27 +21 959 6104

## QUALITY

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### MAGISTER TECHNOLOGIAE

#### 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.

#### 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 industry and 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.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Full-time: One year

#### Venue of offering

Bellville Campus

#### CONTACT DETAILS

##### Bellville Campus

Mr Patrick McLaren

Tel +27 +21 959 6225

Fax +27 +21 959 6073

## BIOMEDICAL TECHNOLOGY

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### MAGISTER TECHNOLOGIAE

#### 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.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

#### Venues of offering

Bellville Campus

#### CONTACT DETAILS

##### Bellville Campus

Faculty Office

Tel +27 +21 959 6569

Fax +27 +21 959 6118

## BIOMEDICAL TECHNOLOGY

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### DOCTOR TECHNOLOGIAE

#### 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.

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#### Programme structure

##### SIXTH YEAR

Research and thesis

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#### Duration of course

Full-time: Minimum of two years

Part-time: Minimum of two years

#### Venues of offering

Bellville Campus

#### CONTACT DETAILS

##### Cape Town Campus

Faculty Office

Tel +27 +21 959 6569

Fax +27 +21 959 6118



## DENTAL TECHNOLOGY

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### MAGISTER TECHNOLOGIAE

#### 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.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Full-time: One year

Part-time: Two years

#### Venue of offering

Tygerberg Hospital Campus

#### CONTACT DETAILS

##### Tygerberg Hospital Campus

Mr Louis Steyn

Tel +27 +21 +933 4664

Fax +27 +21 +933 1048

Ms Maureen Anthony

Tel +27 +21 +933 4664

Fax +27 +21 +933 1048

## NURSING

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### MAGISTER TECHNOLOGIAE

#### 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 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, 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.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

#### Venues of offering

Bellville Campus

#### CONTACT DETAILS

##### Bellville Campus

Faculty Office

Tel + 27 +21 959 6569

Fax + 27 +21 959 6118

# RADIOGRAPHY

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## MAGISTER TECHNOLOGIAE

### 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 education. Employment is available in academic hospitals, community health centres, private and public practice both nationally and internationally, research institutes, as medical representatives. Graduates in radiography can apply to the HPCSA for the right to start a private practice. Other opportunities include post-graduate study:

- Doctor Technologiae Radiography
- Specialised short courses
- Higher education qualification

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### Programme structure

#### FIFTH YEAR

Research project and dissertation

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### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

### Venues of offering

Groote Schuur Hospital Campus

Tygerberg Hospital Campus

### CONTACT DETAILS

#### Groote Schuur Hospital Campus

Dr P Engel-Hills

Tel +27 +21 442 6162

Fax +27 +21 447 2963

#### Tygerberg Hospital Campus

Mrs Carol le Roux

Tel +27 +21 932 7320

Fax +27 +21 932 0056

## RADIOGRAPHY

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### DOCTOR TECHNOLOGIAE

#### 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

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#### Programme structure

##### SIXTH YEAR

Research and thesis

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#### Duration of course

Full-time: Minimum of two years

Part-time: Minimum of two years

#### Venues of offering

Supervision dependent on where supervisor is and research is being conducted but mainly at Groote Schuur or Tygerberg Campus

#### CONTACT DETAILS

##### Groote Schuur Hospital Campus

Prof P Engel-Hills

Tel +27 +21 442 6162

Fax +27 +21 447 2963

##### Tygerberg Hospital Campus

Mrs Carol le Roux

Tel +27 +21 932 7320

Fax +27 +21 932 0056

# ARCHITECTURAL TECHNOLOGY

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## 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.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

#### Venue of offering

Thomas Pattullo Building  
19 Jan Smuts Street  
Foreshore, Cape Town

#### CONTACT DETAILS

##### Cape Town Campus

Faculty Office

Tel +27 +21 440 2200

Fax +27 +21 440 2202

## DESIGN

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### 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.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

#### Venue of offering

Cape Town Campus

#### CONTACT DETAILS

Faculty Office

Tel +27 +21 460 3392

Fax +27 +21 460 3553

## DESIGN

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### 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.

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#### Programme structure

##### SIXTH YEAR

Research project and thesis

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#### Duration of course

Full-time: Minimum of two years

Part-time: Minimum of two years

#### Venues of offering

Cape Town Campus

#### CONTACT DETAILS

##### Cape Town Campus

Faculty Office

Tel +27 +21 460 3392

Fax +27 +21 460 3553

## GRAPHIC DESIGN

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### 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.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

#### Venues of offering

Bellville Campus

Cape Town Campus

#### Contact details

##### Bellville Campus

Tel +27 +21 959 6356

Fax +27 +21 959 6357

##### Cape Town Campus

Tel +27 +21 460 3392

Fax +27 +21 460 3553



## GRAPHIC DESIGN

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### 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

#### Venues of Offering

Bellville Campus

Cape Town Campus

#### CONTACT DETAILS

##### Bellville Campus

Tel +27 +21 959 6356

Fax +27 +21 959 6357

##### Cape Town Campus

Tel +27 +21 460 3392

Fax +27 +21 460 3553

## INDUSTRIAL DESIGN

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### 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.

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#### Programme structure

##### FIFTH YEAR

Research project and dissertation

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#### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

#### Venues of offering

Cape Town Campus

#### CONTACT DETAILS

Tel +27 +21 460 3392

Fax +27 +21 460 3553

# INFORMATION TECHNOLOGY

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## MAGISTER TECHNOLOGIAE

### Course aim

Graduates conduct independent research, under appropriate supervision, in the field of information technology and informations systems (IT/IS), and contribute to knowledge production in that field, namely Information Technology and Information Systems (IT/IS). Students may choose one of two options to complete the MTech Information Technology.

### **Option 1: Information Technology**

Students who have a research interest in any IT field may apply for admission to the research-based degree.

### **Option 2: e-Business Specialisation**

The e-Business specialisation is aimed at students with a background and/or interest in the application of IT/IS in the e-Business environment. Students participate in a structured study programme. The programme consists of a series of compulsory components, in preparation for the research dissertation.

### Career opportunities

Graduates find employment at senior level 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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### Programme structure

#### FIFTH YEAR

##### **Option 1: Information Technology**

Research and dissertation

#### OR

##### **Option 2: e-Business Specialisation**

Research and dissertation

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### Duration of course

Full-time: Minimum one year

Part-time: Minimum of two years

### Venue of offering

Cape Town Campus

### CONTACT DETAILS

Tel +27 +21 469 1044

Fax +27 +21 469 1007

## INFORMATION TECHNOLOGY

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### 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 information technology 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.

#### Career opportunities

Doctors in Information Technology are usually academics at Higher Education institutions, or leaders in research and development, both in commerce and industry and in the public sector.

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#### Programme structure

##### SIXTH YEAR

Research and thesis

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#### Duration of course

Full-time: Minimum two years

Part-time: Minimum two years

#### Venue of offering

Cape Town Campus

#### CONTACT DETAILS

Tel +27 +21 469 1044

Fax +27 +21 469 1007

## INTERIOR DESIGN

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### 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.

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##### Programme structure

##### FIFTH YEAR

Research project and dissertation

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##### Duration of course

Full-time: Minimum of one year

Part-Time: Minimum of two years

##### Venue of offering

Thomas Pattullo Building  
19 Jan Smuts Street  
Foreshore, Cape Town

##### CONTACT DETAILS

Faculty Office

Tel +27 +21 440 2200

Fax +27 +21 440 2202

## PUBLIC RELATIONS MANAGEMENT

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### MAGISTER TECHNOLOGIAE

#### **Course structure**

Students may choose one of two options to complete the MTech Public Relations Management.

#### ***Option 1: Research-based degree***

Students conduct independent research, under appropriate supervision, in a specialised area of public relations management or communication, and contribute to knowledge production in this 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.

#### ***Option 2: Course-driven degree***

This is an innovative personal and professional development course in strategic communication, for professionals who want to acquire advanced knowledge and skills.

The course combines an e-learning environment and residential weeks. Each module is offered over a ten week period. The first four weeks consist of e-learning contact and interaction, followed by a residential week and concluded with another five-week e-learning contact, during which period final assessments take place.

A minimum of three residential weeks are scheduled. During each residential week two modules may be covered. In addition, a residential week for Foundations of Public Relations is scheduled to accommodate students from other disciplines who may be required to complete this module.

#### **Career opportunities**

Effective and strategic communication is the key to the success of any organisation and there is a demand for specialists in this field. Public Relations Management also provides entrepreneurial opportunities.

#### **Admission requirements**

Students who enter the programme via another discipline may, in addition to the minimum admission requirements (see page 5), be required to do the module Foundations of Public Relations in addition to the other modules.

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#### **Programme structure**

##### **FIFTH YEAR**

##### **Option 1: (Research-based)**

Research project and dissertation

**OR**

**Option 2: (Course-driven)**

Foundations of Public Relations (Elective for students from non-PR background)

Managing Communication Strategy

Positioning Organisational Relationships

Technology, Communication and Stakeholders

Planning Stakeholder Communications

Research Methodology

Plus

Research project and paper

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**Duration of course**

Full-time:

Research-based MTech: One year

Course-driven MTech: Two years

Part-time: Minimum two years

**Venue of offering**

Cape Town Campus

**CONTACT DETAILS**

Prof Nirvana Bechan

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Tel +27 +21 460 3673

Fax +27 +21 460 3553

## TOWN AND REGIONAL PLANNING

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### 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 town and regional planning, 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. This research-based qualification allows for more innovative interventions within the profession, and also opens up broader applications across disciplines.

##### Career opportunities

Graduates play an important and direct role in the field of town and regional planning and are employed in research and development. They are also employed in research and teaching positions at Higher Education institutions.

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##### Programme structure

###### FIFTH YEAR

Research project and dissertation

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##### Duration of course

Full-time: Minimum of one year

Part-time: Minimum of two years

##### Venue of offering

Thomas Pattullo Building  
19 Jan Smuts Street  
Foreshore, Cape Town

##### CONTACT DETAILS

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