



Mangosuthu
University of Technology

PROSPECTUS





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Who are We?

We are uniquely located in a semi-urban setting at the heart of Umlazi Township, Durban, KwaZulu-Natal. Mangosuthu University of Technology (MUT) has distinguished itself as a diverse institution offering internationally recognised and fully accredited qualifications across the Faculties of Engineering, Management Sciences, and Natural Sciences. Opening its doors to only 15 students in 1979, MUT to date has more than 10 000 registered students and accommodates about 60% of its student population in its on- and off-campus residences. Our two campuses are on the public transport access route that can be reached through buses, taxis and trains.

MUT strives to offer students an unforgettable campus life by providing valuable academic programming, academic support services to enhance students' progress, leadership and entrepreneurial development programmes, an active sports culture, and a sense of community service. In 2014, the MUT campus was declared an alcohol-free zone.

Our students represent all nine South African provinces and beyond the South African borders.

MUT identifies teaching and learning as its core business and therefore seeks to excel in academic learning and achievement.



“MUT identifies teaching and learning as its core business and therefore seeks to excel in academic learning and achievement.”

Contacting MUT

Admission Enquiries – 031 907 7181

Email: info@mut.ac.za

Application and Admissions Call Centre – 031 819 9280/9282/9284/9286/9287

Faculty of Engineering – 031 907 7172

Email: sidudzo@mut.ac.za

Faculty of Management Sciences – 031 907 7452

Email: quilie@mut.ac.za

Faculty of Natural Sciences – 031 907 7678

Email: israel@mut.ac.za

Financial Aid Bureau – 031 907 7106

Email: andrew@mut.ac.za

Schools Liaison Office – 031 907 7194

Email: sarda@mut.ac.za/innocent@mut.ac.za

General Switchboard – 031 907 7111

www.mut.ac.za





How to Apply to MUT

All first-year applications are submitted through the Central Applications Office (CAO). This is a simplified way of applying for more than one programme, using one application form, and paying a single application fee. Use your unique CAO number as a reference when paying the application fee.

We advise prospective students to choose MUT as a first choice. Application forms can be downloaded from the CAO website, www.cao.ac.za.

You may also apply online by going to www.cao.ac.za, click on the apply tab, then click on apply now, and follow the easy application process. The CAO number appears in tear-off slip on the CAO application form.



Checking the Progress of your Application

You can track the progress of your application by going to www.cao.ac.za and enter your CAO number, or email engeneralcao@cao.ac.za or call 031 268 4444.

Important Closing Dates:

Faculty of Engineering – first semester applications	-	30 September
Faculty of Engineering – second semester applications	-	31 May
Faculty of Natural Sciences	-	30 September
Analytical Chemistry – second semester applications	-	31 May
Faculty of Management Sciences	-	30 September

Applications submitted after 30 September accumulate a late application fee, determined by the CAO.

Important Application Documents (for South African Applicants)

- National Senior Certificate or Statement of Results;
- Senior Certificate;
- Identity Document; and
- Students transferring from other universities should submit an original academic record and a certificate of good conduct.

Non-South African Applicants

- A valid passport and study permit;
- A valid medical aid/health insurance cover;
- Police clearance certificate – part of the requirements as from January 2015;
- SGCE, GCE, GCSE, IGCSE or Cambridge School Certificate;
- Five subjects at O Levels including Maths A/B/C, Physical Science A/B/C, English A/B/C, and Technical Drawing A/B/C; and
- Three of the five subjects must have been passed in the same exam sitting.





General Admission Requirements

Each faculty stipulates admission requirements based on a points aggregate calculated from the best six subjects presented by the prospective student. Over and above the points system, some departments administer a compulsory

entrance test. Not all applicants who meet the minimum requirements can be accepted due to limited space. The selection process prioritises the best qualified applicants and those who selected MUT as their first or second choice.

Minimum Entrance Requirements

- National Senior Certificate with a diploma pass or N3 with 50% pass in Mathematics and English;
- A minimum of six subjects with level 4 pass for Diploma study and level 3 for Access Courses;
- English Home Language or First Additional language, level 4 pass;
- Specific subject combination and pass level relevant to the qualification; and
- Minimum points as per faculty requirement and as listed in the CAO handbook.



“ The selection process prioritises the best qualified applicants and those who selected MUT as their first or second choice. ”

Point Calculation Matrix

National Senior Certificate:		
NSC-LEVEL RATING	NSC PERCENTAGE	POINTS
	90-100	8
7	80-89	7
6	70-79	6
5	60-69	5
4	50-59	4
3	40-49	3

Senior Certificate:		
Symbol	Higher Grade	Standard Grade
A	8	6
B	7	5
C	6	4
D	5	3
E	4	2





A Snapshot of MUT Qualifications

FACULTY OF ENGINEERING

Engineering programmes are about the design and production of useful products and services. Engineers convert scientific knowledge into technology and then technology into successful advancement. At MUT, we offer National Diplomas in Chemical, Civil, Surveying, Electrical, Building (Construction

Management & Quantity Surveying), and Mechanical Engineering. We also offer a Bachelor of Technology in Chemical Engineering. The Faculty of Engineering also offers bridging programmes designed to prepare students who could not fulfill all the diploma entrance requirements.

List of Engineering qualifications and CAO codes

Qualification	Minimum Requirements	CAO Code	Duration
Chemical Engineering	Mathematics 4 Physical Science 4 English 1st Additional 4	MN-M-CE3	3 yrs
Civil Engineering	Mathematics 4 Physical Science 4 English 1st Additional 4	MN-M-CV3	3 yrs
Surveying	Mathematics 4 Physical Science 4 English 1st Additional 4	MN-M-SV3	3 yrs
Building (Construction Management & Quantity Surveying)	Mathematics 4 Physical Science 4 English 1st Additional 4	MN-M-BU3	3 yrs
Electrical Engineering	Mathematics 4 Physical Science 4 English 1st Additional 4	MN-M-EE5	3 yrs
Mechanical Engineering	Mathematics 4 Physical Science 4 English 1st Additional 4	MN-M-ME3	3 yrs

Engineering Access (bridging) programmes and CAO codes

Qualification	Minimum Requirements	CAO Code	Duration
Chemical Engineering	English HL4/FAL 3 Mathematics 3 Physical Science 3	MN-M-CEB	6 months
Civil Engineering	English HL4/FAL 3 Mathematics 3 Physical Science 3	MN-M-CVB	6 months
Electrical Engineering	English HL 4/FAL 3 Mathematics 3 Physical Science 3	MN-M-EEB	6 months
Mechanical Engineering	English HL4/FAL 3 Mathematics 3 Physical Science 3	MN-M-MEB	6 months
Building	English HL4/FAL 3 Mathematics 3 Physical Science 3	MN-M-BUB	6 months
Surveying	English HL4/FAL 3 Mathematics 3 Physical Science 3	MN-M-SVB	6 months



Career Opportunities

National Diploma: Chemical Engineering

The course trains students to be technicians qualified to assist a chemical engineer or plant operator in the control, maintenance and functioning of processes involved in the production of chemicals. The technician's duties include research, economic evaluation and unit operations.

National Diploma: Civil Engineering

The course qualifies the technician for employment with civil engineering contractors, consultants, Government departments or municipalities, where he/she would form part of a team that is usually managed by a professional engineer or technologist. The technician could be involved in the design and construction of



civil engineering structures such as roads, bridges, dams, railways, harbours, buildings and airports.

National Diploma: Surveying

Scaled-base maps are essential to any construction planning or development of land. The course qualifies the student as a surveyor who has the ability to prepare maps of various scales set out for the required structures, transportation routes, industrial and residential properties.

National Diploma: Construction Management & Quantity Surveying (Building)

After completing the course, students specialise in either construction management or quantity surveying. The course provides essential skills and knowledge needed in the construction of housing, schools, community facilities and other building projects.

National Diploma: Electrical Engineering

The course equips the students with the knowledge and skills needed for working in electrical power generation and distribution environments, process control environments, and electronic communication environments. The course may include design, development and work on computer-based systems.

National Diploma: Mechanical Engineering

The diploma qualifies students for a wide range of occupations. There are employment opportunities in the manufacturing industry, motor industry, ship building industry, aircraft industry, at power stations and on the mines.

FACULTY OF MANAGEMENT SCIENCES

Management Sciences is concerned with developing and applying models and concepts that help to illuminate management issues and solve managerial problems. The Faculty offers

National Diplomas in Accounting, Cost and Management Accounting, Public Finance & Accounting, Human Resource Management, Marketing, Office Management & Technology, and Public Administration.

Qualifications and CAO codes for the Faculty of Management Sciences

Qualification	Minimum Requirements	CAO Code	Duration
Accounting	English Home Language 4 English First Additional Language 5, Accounting 4 Mathematics 3 OR Mathematics Literacy 6	MN-M-AC3	3/4 yrs
Finance & Accounting: Public	English Home Language 4 English First Additional Language 5 Accounting 4 Mathematics 3 OR Mathematics Literacy 6	MN-M-PF3	4 yrs
Human Resource Management	English Home Language 3 English First Additional Language 4 Accounting Mathematics 3 OR Mathematics Literacy 4	MN-M-HR3	3 yrs
Marketing	English Home Language 4 English First Additional Language 5 Mathematics 3 OR Mathematics Literacy 4 Accounting 3	MN-M-MM3	3 yrs
Office Management & Technology	English Home Language 3 English First Additional Language 4 Any other five accredited subjects 25 points A pass in Typing or Computer Studies will be an added advantage	MN-M-OT3	3 yrs
Public Administration	English Home Language English First Additional Language 4 Any other five accredited subjects 25 points	MN-M-PU3	3 yrs



Career Opportunities

National Diploma: Accounting, Cost & Management Accounting

Cost Accounting is part of Management Accounting, which establishes budgets, standard costs and actual costs of operations, processes departments or products in an organisation or enterprise. Cost Accounting includes the analysis of variances, profitability or social use of funds. Costing data provided by the cost accountant serves as a managerial tool for planning, controlling and decision-making.

The National Diploma: Cost and Management Accounting is geared towards providing students with a thorough understanding of the principles, techniques, methods and practice of Cost Accountancy, as well as the use of cost information for

planning, control and decision-making. Cost information is used for the preparation of reports required by management for such purposes as the formulation of policies, planning and controlling activities, decision-making, and disclosure of information to external entities and employees.

National Diploma: Human Resources Management

The human resources practitioner or manager has an important role to play in ensuring that an organisation has a suitably skilled and efficient workforce. The diploma qualifies students for a range of HR occupations in the areas of recruitment, employee benefits, talent development and management.

National Diploma: Marketing

Marketing involves researching consumer needs and formulating the means to promote and supply products and services to meet those needs efficiently and effectively. The diploma qualifies students for a wide range of occupations in the areas of marketing, advertising and public relations.

National Diploma: Office Management & Technology

The course provides students with the business and administrative skills and knowledge to understand how business operates and to administer an office efficiently. Completing the diploma qualifies a student for administrative positions in any industry.



National Diploma: Public Administration

The government provides many essential services to communities in South Africa, including housing, education, transport and the provision of municipal services through local government. A huge administrative infrastructure, employing thousands of public servants, organises the delivery of

these services through various government departments.

The National Diploma: Public Administration equips students with the theory and practical skills needed to administer and manage the provision of government services effectively and efficiently.

“

Management Sciences is concerned with developing and applying models and concepts that help to illuminate management issues and solve managerial problems

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FACULTY OF NATURAL SCIENCES

Natural Science is about studying anything that involves subjects such as Physics, Chemistry and Biology.

These subjects are a discipline in studying the physical and natural world or the events that happen in nature.

The Faculty of Natural Sciences offers a BSc in Environmental Health and National Diplomas in Agriculture, Biomedical Sciences, Analytical Chemistry, Community Extension, Information Technology and Nature Conservation.



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Qualifications and CAO codes for the Faculty of Management Sciences

Qualification	Minimum Requirements	CAO Code	Duration
BSc: Environmental Health	English Home Language 4 English First Additional Language 4 Mathematics 4 OR Mathematics Literacy 5 Physical Science 4 OR Life Science 4 (Geog and Agric Science 5 recommended)	MN-M-BE4	4 yrs
Agriculture	Agricultural Science 4 OR Life Science 4 English Home Language 4 OR English First Additional Language 4 Mathematics 3 OR Mathematics Literacy 4 Physical Science 3	MN-M-AG3	3 yrs
Biomedical Science	English Home Language 4 English First Additional Language 4 Mathematics 4 Life Sciences 4 OR Physical Science 4 Compulsory entrance test	MN-M-BD3	3 yrs
Analytical Chemistry	English Home Language 4 English First Additional Language 4 Mathematics 4 Physical Science 4	MN-M-AN3	3 yrs
Community Extension	English Home Language 4 And level 4 in one of these subjects; Agricultural Science, Consumer Studies, Life Science, Geography, Economics	MN-M-CX3	3 yrs
Nature Conservation	English First Additional Language 4 Agricultural Science 4 OR Life Science 4 Mathematics 3	MN-M- NC3	3 yrs
Information Technology	English Home Language 3 English First Additional Language 3 Mathematics 3 OR Mathematics Literacy 4 Minimum of 23 points in six best subjects including Maths/Maths Literacy and English Selected candidates will be called for a compulsory entrance test.	MN-M-IT3	3/4 yrs Access programme

Career Opportunities

Agriculture: Animal Production

Students are equipped with theory in all aspects of animal production and practical application of animal production in industry and extension contexts.

Agriculture

Students are prepared theoretically and practically for a career in the fields of agricultural development or extension and to promote the development of sound agricultural practice in the farming industry.



National Diploma: Biomedical Technology

The course qualifies the Biotechnologist for employment in a pathology laboratory. Alternate employment opportunities include positions in laboratories linked to the food or medical industry, or in sales divisions of the medical equipment and pharmaceutical industries.

National Diploma: Analytical Chemistry

The course prepares technicians for positions in analytical laboratories, where many types of analysis are made, using a variety of techniques, including classic wet chemical methods and sophisticated instrumental methods. Technicians may find work in

routine analytical quality control laboratories or in research laboratories that explore new processes and techniques of manufacture.

National Diploma: Community Extension

To train students to improve the standard of living of rural communities by:

- Motivating communities to participate in self-help projects, particularly in order to promote food security and alleviate poverty; and
- Effectively communicating improved functioning of rural and urban households by extending domestic, social and agricultural skills into the communities.

National Diploma: Information Technology

The National Diploma in IT prepares students for the development and management of IT systems in a distributed environment.

Current specialisation options are:

- *Software Development:* Students are empowered to design and produce software products and systems to meet specified needs so that they work reliably and their production and maintenance is cost-effective. Career paths include applications development, programming, systems development, systems analysis and database administration.
- *Communication Networks:* Students are provided with the knowledge and skills to design, develop, implement and manage networks by integrating knowledge of modern network topologies and protocols to create an appropriate and adequate environment of communication and information sharing. Career paths include network design, network administration, network technologist, etc.

BSc: Environmental Health

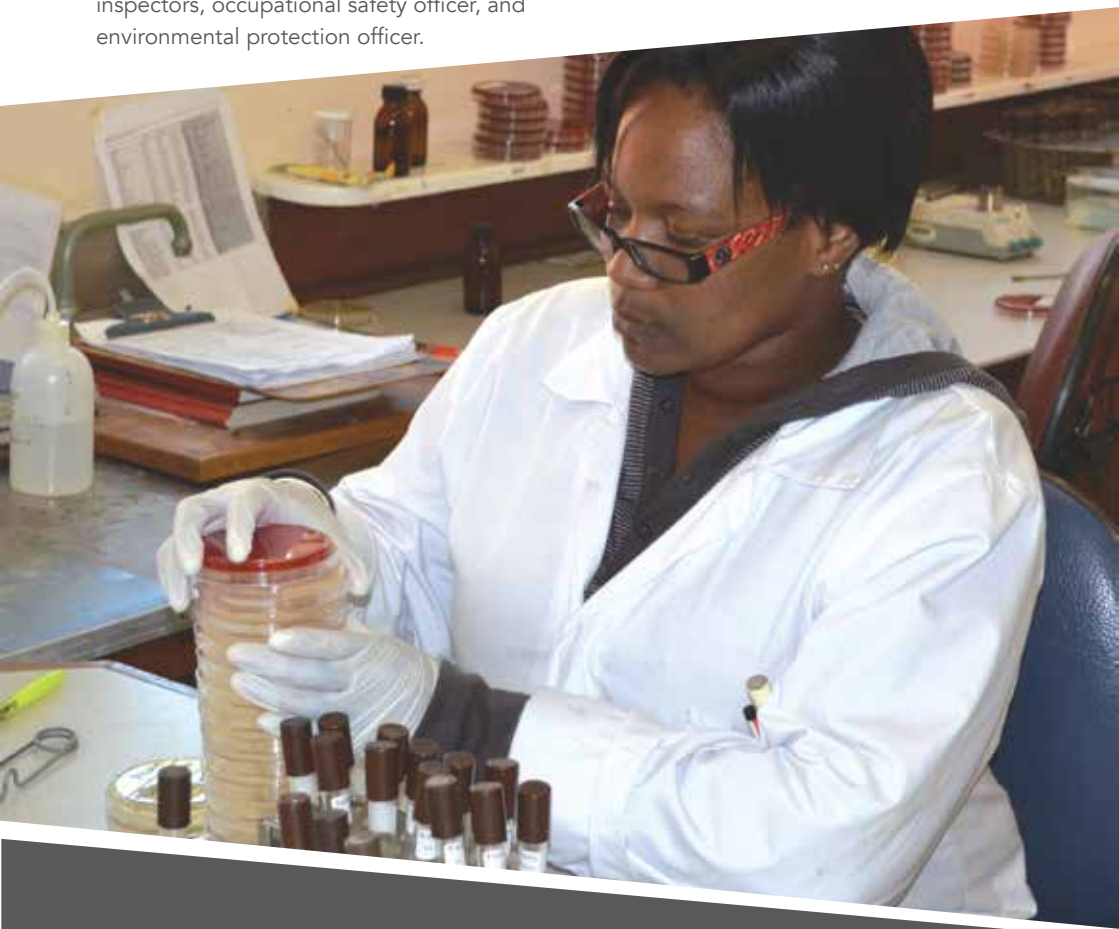
Environmental health officers are trained to inform, assist, advise and interact with the population in the workplace, at home, and in public recreational areas to promote the health and safety of all members of the community.

Job opportunities:

Safety, health, environmental and quality management officer; waste management officer, environmental management officer, veterinary public health officer, meat inspectors, occupational safety officer, and environmental protection officer.

National Diploma: Nature Conservation

To cater for the human resources needs of conservation organisations, and to initiate self-employment opportunities for students by providing theoretical and practical expertise in the field of conservation studies. This is a functional and well recognised qualification, which is a prerequisite for appointment and promotion as a nature conservator.





Financial Matters

Did you Know that you can Afford to Study at MUT?

Giving hope to students who excel academically is our main objective, and we believe that your financial circumstances should never stand in the way. That is why MUT offers the most competitive tuition fee structure, ranging between R4 530 and R15 350 per semester depending on the course and subjects. Residence fees range between R4 120 and R11 150 per semester. Travel expenses, meals, stationery and text books are not included in the tuition and residence costs. Our financial aid resources and policies ensure that MUT is affordable for all prospective students.

Awards for Academic Excellence

MUT offers Matric Aggregate Awards to first year students who achieve level 7 on any of their Grade 12 subjects with the exception of Life Orientation, which is considered to be a non-curriculum subject. The award may be used to finance your first year of study at MUT. This award is administered by the Financial Aid office.

Dean's Commendation Award

MUT's executive introduced the Dean's Commendation Awards to acknowledge excellent academic performance. The awards are offered to MUT students who achieve an aggregate of 75% or more in their exams. The incentive is a 100% remission of tuition fees for the next level of study.

National Student Financial Aid Scheme (NSFAS)

The scheme was established by the government to assist academically deserving students registered at tertiary institutions. Students who qualify for NSFAS receive loans of up to 40%, which may be converted into a bursary at the end of the academic year, should all courses be passed. Applications are limited to South African nationals.

Library Services

Library Services provide a wide range of instructional services to assist staff and students in the use of information sources and library facilities. MUT has two libraries – one in the main campus, and another in the Faculty of Natural Sciences campus. Our libraries provide comprehensive access to a wide range of material across our faculties and disciplines.

Student Health Services

The Student Health Services afford access to a fully equipped on-campus clinic where students are attended to by professional nurses and a part-time medical doctor from Monday to Thursday between 8am and 3pm, and between 8am and 12pm on a Friday. First aid care and ambulance transportation to the nearest hospital is also provided to students after hours.

Extracurricular Activities

Extracurricular activities can form a vital part of your experience and create unique opportunities for friendships and learning. At MUT, we aim to make your studies and social life as fulfilling and enjoyable as possible. We believe that students should aim for success by working hard in their studies, and taking time to make friends and developing interests outside the classroom. MUT offers a range of support services intended to give students a lifelong experience.





Sport

MUT recognises the value and importance of participating in sporting activities and encourages its students to get involved in sports. The Sport Department welcomes new and returning students to a variety of

sports, both competitive and recreational, so that students can excel not only academically, but also in other ways that will enhance their experience at MUT.

Available Sporting Activities

The sporting codes that one could look forward to at MUT are:

- Aerobics
- Athletics
- Darts
- Boxing
- Basketball
- Bodybuilding
- Chess
- Cricket
- Dance
- Golf
- Hockey
- Indoor Soccer
- Karate
- Netball
- Rugby
- Scrabble
- Handball
- Softball
- Tennis
- Table Tennis
- Volleyball
- Snooker
- Swimming
- Soccer

MUT Choir

Confirmed by NACMA as the best choir in the country in the higher education category, our choir provides students with a platform to explore their musical talent.



MUT Student Accommodation and Residence Life

It's a Home – a Place where you can Belong!

Students are sure to share a range of experiences and aspirations at MUT's residences. Students live in a diverse community and create lasting friendships. While each residence at MUT has unique features and amenities, all provide reasonable quality accommodation, facilities and resources.



Both on-campus and off-campus student residences offer similar access and control systems, have established governance, a formal management structure, as well as basic and reasonable accommodation that is conducive to living and learning.





Message From MUT Vice-Chancellor, Prof Mashupye Ratale Kgaphola

I'm happy to inform you that we remain the most accessible and credible university in the country, by heeding to the call by the Minister of Higher Education and Training to open our doors to previously disenfranchised communities.

This is evident by our diverse student body. Some of our students come from the most rural and impoverished communities, while others come from suburbs, townships and cities. Irrespective of where students come from, we as management want to help them to achieve their study goals. We are doing our best to transform the University and make it a place where dreams come true.

Speaking your language, U belong here!

Our Faculty Deans



Prof Senzo Malinga (CEM)

Dean: Engineering
Tel: 031 907 7236



Mr Gona Govender

Dean: Management Sciences
Tel: 031 907 7128



Prof Nokwethemba Ndlazi

Dean: Natural Science
Tel: 031 907 7601

Closing Statement

While studying at MUT, you will meet and get to know great people who will enrich your thinking and your career. MUT will give you an opportunity to explore, collaborate and to challenge yourself. Please feel free to request for a guided tour of our campuses by calling **031 907 7194**.

Important Dates to Note

19 February 2016	Circle of Excellence Awards
31 May 2016	Eskom Science Expo at MUT
31 May 2016	Closing date for applications for second semester 2016 registration for the Faculty of Engineering
28 July 2016	MUT Open Day
31 August 2016	Principals and Career Guidance Counsellors' Seminar
30 September 2016	Closing date for 2017 applications



Notes



A series of horizontal dashed lines for writing notes.

A person wearing a blue and white striped shirt and blue jeans stands in a library, holding a very tall stack of books that reaches their head. The background consists of wooden bookshelves filled with various books.

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**Mangosuthu
University of Technology**

511 Mangosuthu Highway, Umlazi, KwaZulu-Natal, 4031

P.O. Box 12363, Jacobs, 4026

Tel: +27 (0)31 907 7111

www.mut.ac.za

 **@MUTcampus**

 **MUTUmlazi**