

DISCOVER

ENGAGE

EMPOWER

DELIVER

SUSTAIN

SPIRIT

APRIL 2019 / ISSUE NUMBER 11



Mangosuthu
University of Technology

MUT - my first choice!



STUDY TOWARDS CAREER-FOCUSED QUALIFICATIONS

FACULTY OF ENGINEERING codes and qualifications

MN-M-DCE Diploma: Chemical Engineering
 MN-M-DCV Diploma: Civil Engineering
 MN-M-DSV Diploma: Survey
 MN-M-DBU Diploma: Building
 MN-M-DEE Diploma: Electrical Engineering
 MN-M-DME Diploma: Mechanical Engineering

MINIMUM SUBJECTS REQUIRED:

English I Maths I Physical Science
 All at 50% and above
 Further departmental screening processes

FACULTY OF NATURAL SCIENCES codes and qualifications

MN-M-BE4 Bsc - Environmental Health
 MN-M-BLS Bsc - Medical Laboratory Sciences
 MN-M-DAG Diploma: Agriculture
 MN-M-DBD Diploma: Biomedical Technology
 MN-M-DAN Diploma: Analytical Chemistry
 MN-M-DIT Diploma: Information Technology
 MN-M-DCN Diploma: Nature Conservation
 MN-M-DCX Diploma: Community Extension

MINIMUM SUBJECTS REQUIRED:

English I Maths I Maths Literacy I Physical Science I Life Sciences I Agricultural Science
 Further departmental screening processes

FACULTY OF MANAGEMENT SCIENCES codes and qualifications

MN-M-DAT DIPLOMA: ACCOUNTING
 MN-M-DMN DIPLOMA: COST & MANAGEMENT ACCOUNTING
 MN-M-DFP DIPLOMA: FINANCE & ACCOUNTING (PUBLIC)
 MN-M-DHR DIPLOMA: HUMAN RESOURCES MANAGEMENT
 MN-M-DMM DIPLOMA: MARKETING
 MN-M-DOT DIPLOMA: OFFICE MANAGEMENT & TECHNOLOGY
 MN-M-DPU DIPLOMA: PUBLIC ADMINISTRATION

MINIMUM SUBJECTS REQUIRED:

English I Maths I Maths Literacy I Accounting
 Minimum of 25 points and further departmental screening processes

HOW TO APPLY TO MUT

All first year applications are submitted through the Central Applications Office (CAO).
 Apply online www.cao.ac.za before 30 September.

Mid-year intake only available for the Faculty of Engineering.

Apply online www.cao.ac.za before 31 May.

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From the desk of the Editor-in-Chief, Mbali Mkhize

If there is an awareness that this publication needs to raise as we commence the new year, it is that 'no man is an island'. Many songs, movies, stories and poems have been written around this idea, which is also at the heart of ubuntu. Indeed, we are all in this life together, and success lies in understanding the power of collaboration.

Even the MUT Strategy 2025 makes no bones about working together. Collaboration is embedded throughout the strategy which sits on the bedrock of our values (otherwise known as DEEDS), which are: Deliver. Empower. Engage. Discover. Sustain. It would be impossible to deliver on these values if everyone just did their own thing in their little corner.

For example, MarComms, the Institute of Rural Development and Community Engagement (IRDCE) and the Office of the Vice-Chancellor have "targeting national and international engagement" as one of their key deliverables. This overlaps with the mandate of the faculties, meaning that our offices have to play a role in helping the faculties achieve their mandate. I could mention various other areas where we will see more collaboration across various disciplines, support services, academics and the executive function. Driven by increasingly healthy relationships within the campus, something big is shaping up at MUT, and will bring many islands together in a big sea. The MUT Strategy 2025 is not only inward-looking. It also provides a national and international perspective on how we can partner beyond MUT. Vice-Chancellor & Principal Dr Enoch Duma Malaza has spoken about MUT's "anchor strategy" at every public opportunity and is slowly integrating this strategy within the culture of MUT. For instance, he has challenged us to activate our DEEDS by posing questions of how we are making inroads into assimilating with Umlazi Township.



Mbali Mkhize

The Circle of Excellence awards, covered in this publication, gave the VC an opportunity to see what is currently underway as far as empowering and engaging our people from Umlazi is concerned. However, much remains to be done to revitalise the township. Community participation in the university still needs a boost and new ideas are being mooted. The bigger vision is for MUT not to be an "island" separating itself from the sea of the Umlazi Township, but to be firmly anchored in the township to empower its people.

On that note, 2019 has already begun with a bang! At the first session of the MUT Senate, our deans delivered landmark reports which provided a new perspective on what the faculties are doing. Between these and the stories in this publication, there is plenty of good news to sustain the momentous delivery that is starting to happen at MUT.

Message from the Vice-Chancellor

In our Strategic Plan for 2020-2025 we have articulated a vision to be

“a transforming, equitable, sustainable and academically excellent University of Technology anchored in its communities”.

This Vision is an expression of a commitment to:

- Grow in academic stature
- Be fair and inclusive
- Grow in harmony with our resources
- Grow together with our communities.

I have commenced a strategic journey to use every available platform to share this vision and I urge you to do the same, so that all our stakeholders may understand the journey we are embarking on.

One of the cornerstones of Strategy 2025 is to immerse ourselves with Umlazi Township through our Anchor Strategy. We have begun to strengthen existing collaborations and to find new partners that will help us realise our goal of being an "anchor institution". An anchor institution is an urban institution with significant infrastructure in a specific community that is therefore unlikely to move. In MUT's case the Anchor Strategy brings together "town" and "gown" for their mutual benefit.



Dr Malaza, MUT Vice-Chancellor & Principal

We will be activating our **Anchor Strategy** during the course of the year. Currently, local high schools are already receiving tangible benefits from MUT. I was heartened to observe during the Circle of Excellence Awards that MUT has, over the past five consecutive years, managed to recognise excellence in a range of schools (top performing schools, emerging winners and those succeeding despite significant obstacles) and to reward them with useful resources for further development. This power to harness better resources for our neighbours fits in with the values we have set for ourselves, namely:

- **DISCOVER** new ways of working with our people so that they are ready for the challenges of the fourth industrial revolution;
- **ENGAGE** our local communities regardless of their standing in Umlazi;
- **EMPOWER** our local communities;
- **DELIVER** a strategy that will speak to the vision we have for these communities; and
- **SUSTAIN** existing programmes that we have embarked on, and those we intend embarking on.

We should all commit to supporting local schools in producing learners who will be outstanding in their studies and will go on to study further, hopefully with us. As a University, we are considered a keystone for the establishment of a meritocratic society in which social justice is entrenched.



DISCOVER

Faculty of Engineering



Julia Baah, Acting Dean of the Faculty of Engineering

"The profile of the Faculty of Engineering, is traditionally judged based on the quality of their staff and graduates that they produce. The faculty qualification profile is constantly improving. The faculty currently has eight staff members with doctoral qualification. Additionally, 15 staff members are registered for doctoral studies and 11 for Master's degrees. This is a huge milestone for the faculty whose skills are highly sought out in the corporate world.

In order to make our qualifications more relevant; we engage with external stakeholders through regular advisory board meetings and participation in professional associations. Twelve Electrical Engineering staff represented our Faculty at SAIEE conference in Cape Town. The Faculty actively promotes MUT through external engagements. Chemical Engineering colleagues encouraged eThekwin Municipality employees to pursue further studies by conducting a presentation at the Women in Engineering information session on request of the Office of the Deputy City Manager.

The Faculty of Engineering strategically strives to create closer links with eThekwin Municipality and local industries. Current research partners include Umgeni Water, eThekwin Water and Sanitation Department and Dilex. We hope to expand these engagements in the future.

The most pressing issue on the Faculty agenda is preparation for the provisional accreditation visit by the Engineering Council of South Africa (ECSA) at the end of May 2019".

Jet fuel production using algae - a first for Africa and MUT

For many people algae is a sign of contaminated water in pools and other areas where water collects. This is not the case for one MUT lecturer in the Department of Civil Engineering.



Joseph Bwapwa

Joseph Bwapwa has formed an unlikely partnership with algae in his academic research. He recently completed his doctoral degree from the University of KwaZulu-Natal, where he was researching the possibility of producing jet fuel using algae. This is the first time in Africa and MUT that anyone has attempted to use algae to produce jet fuel.

Bwapwa explains that algae is especially important to his scientific work because when it grows, it constitutes a solid called biomass. This biomass contains chains of hydrocarbons which store oil. "Because that biomass has hydrocarbon that contains oil, we can extract that oil. The oil is similar to fossil oil in terms of quality, but it produces less carbon, which means lower carbon emission," says Bwapwa.

Using algae creates an opportunity to solve some of the challenges that the petroleum industry is facing. "Currently the petrol industry is facing two issues: protecting the environment, and the fluctuation of prices which affects cost."

This is not the first time that Bwapwa has used algae in his scientific work. He conducted numerous studies where he used algae to recycle waste water. His study on treating waste water has been presented in conferences around the world, including Japan. "Waste water is made up of contaminants and nutrients. Algae takes the contaminants in waste water because it needs the contaminants to grow," said Bwapwa.

So far, Bwapwa has six publications and he is currently working on finalising a book chapter and a journal article on waste water and green energy, which should be published next year.

Completing his doctoral degree also means that he can start supervising Masters and Doctoral students in Civil and Chemical Engineering. Bwapwa flies the MUT flag regularly at international conferences where he presents his research and chairs sessions in the United States and Canada.



Dr Papy Numbi

Bheki Hlophe of the Department of Marketing and Communications (MarComms) spoke to Dr Numbi about this latest development in his academic career.

Bheki Hlophe: What does it mean to be a Y2 rated researcher?

Dr Numbi: According to the National Research Foundation (NRF), Y2-rated researchers (younger than 40 years) are those who held the doctorate qualification for less than five years at the time of application, and who are recognised as having potential to establish themselves as leaders in their research fields within a period of five years.

BH: How do you feel about earning the Y2 researcher status?

Dr Numbi: I feel great! It means that the quality and impact of my research output are being recognised by my peers nationally and internationally. This has boosted my confidence and increased my research ambition; I am planning to move to a higher NRF rating level in the next five years.

BH: What did you do to earn this status?

Dr Numbi: I worked hard during the past three years. As an academic, I had to do teaching, research and community engagement. Within the same period I produced three book chapters, eight journal articles and nine conference articles. I also benefited a lot from collaboration with Prof Kusakana at CUT, and from the MUT Research Directorate and Faculty of Engineering which also gave me immense support.

BH: What does your new status mean for MUT and the Department of Electrical Engineering?

Dr Numbi: I believe that my status will inspire and motivate my colleagues. It will also benefit our department since we are planning to develop postgraduate programmes in the near future. Most higher education institutions in South Africa use their NRF rating status to position themselves as top universities.

Engineering faculty member obtains Y2 rating

While the world was celebrating the first day of 2019, Dr Papy Numbi of the Department of Electrical Engineering had something extra to celebrate. January 1, 2019 was the first day that he would be officially regarded as a Y2 rated researcher by the National Research Foundation (NRF), as announced by the NRF's Lesley Di Santolo.

Faculty of Management Sciences



Staff members of the Faculty of Management Sciences, with guest speaker, Dr Fayth Riffin, seated

Faculty Research Day a springboard for success

Academics and other interested parties that attended the Faculty of Management Sciences' annual Research Day on 29-30 November 2018 must have felt that MUT's push to become a research-informed university had been given a big boost. Prof Sandiso Ngcobo from the faculty's Department of Communication said that presentations were of a high standard. "They were good - most of them were part of the Master's and PhD studies that colleagues are studying towards. But what was most important was that some of these presentations stand a good chance of finding their way into recognised journals. This will be a big plus for the University as it will not only attract some cash, but elevate MUT's research standing," said Prof Ngcobo, a well-published academic. Prof Ngcobo said the annual Research Day was a stepping stone to national and international forums, since it provides an opportunity for critique by fellow staff members. For instance, Thuli Duma (a lecturer in the Department of Human Resources and Management at MUT) has since submitted her paper on "Including parents in inclusive practice: supporting students with disabilities in higher education" to the Journal of Disability in Africa, and it has been sent for peer review.

Kedibone Phago, Research Professor in the Faculty of Management Sciences, said he received positive feedback from several staff members who took part in the Faculty Research Day. "They thought the event was a tremendous success. This was also because of our high level panelists, Prof Babatunde Agbola (Research Chair of Human Settlements), Prof Logan Naidoo and our invited guest, Dr Fayth Riffin from the University of KwaZulu-Natal. Dr Riffin is a prolific scholar who lived up to expectations by sharing some epistemological issues relating to research paradigms for social science researchers. Other members of the panel spoke on other core academic issues like writing academic papers and pitfalls for Master's and doctoral students," concluded Prof Phago.

Altogether, 12 MUT staff members presented papers on the day. These included the Department of Accounting's Kevin Ramsarghey and Lungani Makhathini, who presented papers on "Educator capabilities for teaching accounting" and "Reflexive praxis and systemic factors in teaching and learning in the accounting discipline in South Africa" respectively.

Management Sciences post-doc makes waves in Canada

Dr Go Ogunela, a post-doctoral fellow based in the MUT Faculty of Management Sciences, is currently doing research on 'soft power' and regional hegemony in Africa. "I am interested in studying the ideational value of soft power and the foreign policy of regional powers in Africa (South Africa and Nigeria). My study is focused on engaging the theoretical limitation of regional power conceptualisation in its application for Africa's context and the need to consider the analytical depth of the soft power variable in such conceptualisation," he said.

Dr Ogunela is currently visiting the Centre for Global Studies at the University of Victoria, Canada, where he is working on two manuscripts with the following titles: "Courting Hegemonic Influence in Africa: Lessons from South Africa" and "Pastorpreneurs and Faith Based Organisations: Setting the Stage for Nigeria's Religious Soft Power". He has already presented a paper at the Centre's Weekly Global Talk Series on the topic: "The Ideational Value of Soft Power and the foreign policy of regional powers in Africa".

Teaching and Learning

7th Annual Teaching and Learning Colloquium recognises outstanding teachers and students



Awards winners with MUT Management and Chair of Council, Mr Morallane Morallane, standing, third from left

Eight Mangosuthu University of Technology academics and three students were awarded at this year's Teaching and Learning Development Centre's (TLDC) Teaching and Learning Colloquium, which started on 27 March 2019 and ended on 29 March 2019.

Winners were recognised in the following categories: Best Established Teacher: Gold Award, Best Established Teacher: Silver Award, Best Established Teacher: Bronze Award, Best Emerging Teacher Award and Best Students in the Faculties.

The Colloquium, which was themed Re-imagining the Purpose of Higher Education for Social Justice, saw guests from various institutions locally and in the United Kingdom present papers in various topics related to learning. The two keynote speakers; Prof Monwabisi Ralarala, Director of the Fundani Centre for Higher Education Development (CHED) at the Cape Peninsula University of Technology and Chairperson of the African Language Association of South Africa (ALASA), and Professor Rajani Naidoo, Director of the International Centre for Higher Education Management at the University of Bath in the United Kingdom; focus on language in knowledge development and dissemination and how universities contributed to social injustice respectively.

The Awards continued to scan the entire MUT academic field; the winners included three students, one per faculty. The students were judged based on their 2018 final examinations, which was their first year. The top achieving students per faculty were Ntando Khuzwayo, a second year Accounting & Public Finance student, Phila Dlamini excelled in Information Communication Technology (ICT), while Vuyiswa Mazibuko of Electrical engineering topped the engineering faculty.

All the students were awarded a sum of R7 500 each. This cash will be deposited into the MUT student accounts. Khuzwayo said she took all her tests seriously as she built towards the final examinations. "I also worked with groups. I would ask my classmates the questions on things I did not understand," said Khuzwayo.

The staff winners were as follows along with their prizes:

BEST ESTABLISHED TEACHERS: GOLD AWARD

Prof Sandiso Ngcobo - Department of Communication - Faculty of Management Sciences, and Thobeka Makhathini - Department of Chemical Engineering - Faculty of Engineering. Among the prizes the winners received were a gold award trophy, a certificate, R65 000 cheque, R50 000 Research grant, all-expense paid for attendance of 2019 HELTASA conference and a student assistant to alleviate their teaching load.

BEST ESTABLISHED TEACHERS: SILVER AWARD

Prof M Coopoosamy - Department of Nature Conservation, Bethel Mutanga - Department of Information and Communication Technology, both in the Faculty of Natural Sciences, and Dr Misery Sikwela - Department of Public Administration and Economics, Faculty of Management Sciences. These academics received a silver award trophy, a certificate, R40 000 cheque, R25 000 Research grant and an all-expense paid for attendance of 2019 HELTASA conference.

BEST ESTABLISHED TEACHER: BRONZE AWARD:

Ana Bigara - Department of Environmental Health, Faculty of Natural Sciences, and Lungani Makhathini, Department of Accounting and Law, Faculty of Management Sciences. They each received a bronze award trophy, R25 000 cheque, R15 000 Research Grant and an all-expense paid for attendance of 2019 HELTASA conference.

BEST EMERGING TEACHER AWARD:

Sithembile Nkosi - Department of nature Conservation, Faculty of Natural Sciences. Sithembile received an award trophy, a R30 000 cheque and an all-expense paid for attendance of 2019 HELTASA conference.

ENGAGE

This is how we build our nation...one rainbow at a time



Taking the unity message to the streets of Umlazi

For MUT, nation-building isn't just an imperative in the 2030 National Development Plan. Nation-building is the lifeblood of the institution, starting with the community on its doorstep and the community within its gates.

Dr Enoch Duma Malaza, MUT Vice-Chancellor & Principal, regularly reminds the University community of its strategic advantage as articulated in the MUT Strategy 2025: "Being a residential university, largely serving previously disadvantaged communities with opportunities to educate and empower our students and communities and address the pressing transformation and multicultural issues facing the nation". He has also stated that "we want to develop global citizens" and that the University will become known for being non-discriminatory.

It is for this reason that MarComms, in collaboration with Student Affairs, is creating several nation-building projects for and with students in order to create a vibrant, inclusive campus. On 27 March, the University celebrated Human Rights Day with its own Rainbow Day - a dazzling and colourful event where over 500 students marched about five kilometres from the main campus gate to ComTech and then to Seme Hall. They were dressed in rainbow outfits and sprayed in rainbow colours, all in an effort to make a statement that "We are a rainbow nation. We don't see the 'other'. We celebrate diversity, the LGBTIQ and equality for all". The consistent message throughout was,

"It does not matter what your background is, what your life choices are or what beliefs you have; you can be a successful individual".

Gugu Ntinga's unforgettable day



Gugu Ntinga leading the charge against intolerance

The popular quote - "It's not about what you said or what you did, it's about how you made people feel" - captures what Gugu Ntinga, a third-year Office Technology student living with albinism, felt at MUT during the Rainbow Day celebrations. Her self-esteem was boosted, and she wasn't the only one who benefited. Third-year Marketing students Sizani Dube and Londiwe Dina both said, "We felt respected, recognised as similar to the other students and unhindered". There were many LGBTIQ students who expressed how they felt welcome. Co-MC Luyanda Mchunu, another third-year Marketing student from Montclair, was touched that people like him are welcome at MUT.

Creating a vibrant campus



The march ended with a relaxing picnic at the University sport grounds

Student life is all about living the life to the fullest. Students want the vibes: they want a vibrant campus, they want to relax a bit, and they want to belong to an active community that supports their development and prepares them for academic, personal and professional success.

The Generation X contingent at MarComms is of the view that 2019 is the year that MUT must change and become more student-centred. This awareness has resulted in MarComms leading several campaigns over the last few weeks to help make students' stay more enjoyable, create a positive vibe and pre-empt potential dangers.

These include:

- Anti-scamming student campaign
- Hug Your Heart Campaign
- Cyber-crime campaign
- Corporate Identity Campaign
- Rainbow Day
- Chillas Tuesday

- a concept that has been making waves in MUT student life. Chillas Tuesday will be held during the weekly Forum Period and students will get a chance to get together and create their own entertainment.

US Consul-General visits MUT for the first time

On 12 March 2019, Dr Enoch Duma Malaza and his executive management team welcomed the US Consul-General, Sherry Zalika Sykes, and her Public Affairs Officer Felix Salazar (also known as Jabu, who speaks perfect Zulu). In her opening remarks, Sherry outlined current funding programmes and noted that MUT was not featuring in any collaborative activities with her office.

"Universities are important institutions within every society. They have a responsibility to advance society. It is for this reason that every investment that we are making, is made through universities. For example, MUT needs to participate in the PEPFAR and Fulbright programmes. I want to make the most of my 18 months left here in Durban, and looking at where MUT is based, I would feel good after my term to know that we have touched a university in Umlazi Township as well," she said.

Dr Malaza shared a vision of how the Consul-General could also consider assisting the University to enhance the exposure of its students in student leadership. Prof Marcus Ramogale, Deputy Vice-Chancellor: Teaching and Learning, added that "we would like to see our students look at entrepreneurship as a means to generate their own income instead of waiting for employment opportunities".

The conversation will be taken forward with the US Consul-General and a training session will be held in the near future.



MUT VC, right, with Sherry Zalika Sykes

Budding entrepreneurs make a grand entrée at Rainbow Day

The Rainbow Day event, held on 27 March in commemoration of Human Rights Day, showed that students bring with them many talents - and there is still a lot of untapped potential. From fashion designers to bakers, beauticians, hairstylists, second hand book sellers and typists (the list goes on), the budding entrepreneurs who displayed their wares proved that the 13,500-strong student community can flourish and thrive financially by doing business among themselves and creating home-grown MUT talent.

Meet Sabelo Shozi, creator of Brave clothing line

Brave is the new clothing label that is rocking MUT. Just stand at the main gate every morning as students arrive on campus and you will be mesmerised by the support the label is attracting.

The brand creator is Sabelo Shozi, a final-year Electrical Engineering student who hails from Ndwedwe. Sabelo learnt the trade from his mother who is a seamstress. He began making his own clothes and he would always stand out among his friends

whenever he attended anything. Over time they started asking him to 'make them something'. Today, he has set up his own small business in one of the Umlazi industrial areas and employs young people.

Within minutes of displaying his clothing line on Rainbow Day, he received four orders and the people wanted to wear their outfits on the spot.

Meet the young men behind the lens

"Anyone can take a picture. A person with a passion sees the picture before it is taken." (Anonymous)

Clive Mthembu and his friend Sphamandla Mchunu are second-year Marketing students who joined forces to invest in a good Canon camera.

Some of the pictures taken during the Rainbow Day event were taken by them, and they are awesome!

Clive Mthembu



Ntombenhle, standing, showing her confectionery work

Meet Ntombenhle Xaba, the baker

Ntombenhle is a first-year Accounting student. When her mother passed away, Ntombenhle was doing her first year at UCT and financial constraints forced her to return home to KZN. She had to find alternative ways of making a living and resorted to what her mother had taught her. Today, she gets business from Umlazi locals who enjoy her brownies, scones, biscuits and exotic desserts. She also does décor. Her stall was a hit on Rainbow Day.



Makhosana, left, showing off some of the books she is selling

Meet Makhosana Radebe, owner of the Lifestyle second hand bookshop

Her love for reading is still great in spite of the digital noise surrounding everyone. "There are many people like me, who still love reading books. We were borrowing from one another until I decided to start selling second hand books. I have been selling these books at DUT and I am so glad that MarComms has given me this platform," said Radebe.

Building a united MUT workforce - Wakanda style

MUT's end of year event is a team-building event on a grand scale. The theme of the 2018 bash, which attracted 400 staff, was Wakanda-Ankara (from the 2018 blockbuster, *Black Panther*). From executive management to entry level employees, the theme was embraced by all, with staff arriving in an array of African fashion - from traditional attire to fusions of African prints and fabrics, bright colours, eye-catching designs and patterns with a modern, yet classy twist. It was indeed Wakanda forever!

The event served as a great way to strengthen ties with employees, emphasise and showcase company culture and celebrate the accomplishments of the University. Just like in the Marvel movie, Wakanda represents a nation of different African cultures made up of several different tribes, each with their own distinctive style. This was visible at the event, through activities such as Battle of the Departments where departments (including the library, HR, IT and clinic) went head-to-head showcasing their hidden *iscathamiya* talents.



Dr Malaza having a light moment with some of the staff members at the event



Everyone rose to the occasion! MUT staff in Wakanda style



Like a professional *Isicathamiya* outfit! The Library staff gave a winning performance

A rare outing melts Umlazi senior citizens' hearts

True to its newly given mandate, MUT is entrenching itself deep within the hearts of its immediate communities. For the second year running, the University invited a group of local senior citizens from Khanana Place of the Aged in Umlazi's C Section to its annual 2018 end-of-year collegiality event.



Mrs Malaza, standing, with one of the esteemed guests

The MUT invitation has become a sweet headache for Bishop Bongani Mkhize, who manages Khanana. "Some complained about being left out. They have developed a habit of looking forward to the event," said Bishop Mkhize. Being taken out is not an everyday occurrence for the elderly at Khanana, and some of them looked a bit bewildered at the ICC. A number of them had a long chat with Mrs Yolanda Malaza, the wife of the University's VC Dr Enoch Duma Malaza, while she was giving them some presents from MUT. Mrs Malaza had to go back to another senior citizen who wanted to tell her more, and the others had to wait for a long conversation to finish before they could receive their presents and whisper their own important message to Mrs Malaza, who enjoyed the interaction.

MUT's relationship with the Khanana Place for the Aged has been going on for a number of years. MUT's Department of Community Extension visits to do gardening and has also trained its chefs and an assistant. "The 103 residents become very excited when they see the students. They regard them as their grandchildren," said Bishop Mkhize. He said that what MUT was doing for the aged was lifting their spirits and giving them much-needed love.

International partnership with YNU on the horizon



Dr Ajayi making a presentation to the interlocutors

Dr Oluyomi Ajayi, CEO of Siyacanda Energy (Pty) Ltd approached Prof Nokwethemba Ndlati (Executive Director in the Office of the Vice-Chancellor) with a proposal for an international partnership between MUT and Yunnan University, China. YNU wishes to establish relationships with MUT in research centres of excellence, student exchange programmes, staff mobility, joint PhD programmes, information exchange on best practices, cultural awareness programmes and the like. Prof Ndlati accepted the proposal with open arms as her current portfolio is responsible for identifying stakeholders with which the University should develop partnerships.

In fact, the suggested areas of collaboration form part of MUT's strategic objectives. A meeting was scheduled to "start the conversation" and after hearing what Siyacanda Energy (Pty) Ltd and YNU are all about, Prof Ndlati suggested a few key areas that MUT requires growth in, namely transformation, student exchange, faculty exchange and academic leadership.

Students jostle to apply at MUT

"It is not by accident that MUT received more than 86,000 applications for first-year students for 2019. We commence our student recruitment activities very early each year, so that by the time learners write their first quarterly examinations, they know very well that MUT is a number one choice for their university studies," said Zama Sishi, Director of Stakeholder Relations Management at MUT.

In just three months, the schools liaison team has criss-crossed the country and the SADC region in line with the Strategic Plan 2025 which, inter alia, aims to diversify the student body and bring an international flavour on campus.



MUT's Ayanda Bulose addressing learners at the Sofia International School, Lesotho

MUT looks beyond borders to boost diversity

MUT's Schools Liaison team recently went on an international student recruitment drive in Lesotho, Swaziland and Botswana. The purpose of this task was to ensure that the campus is diversified not only in terms of colour but also culture and ethnicity. Diversity is one of the foundational themes of MUT's Strategy 2020-2025, which envisages an MUT that is understanding and values differences among students and the University community as a whole.

MUT currently has students from Botswana, Congo, DRC, Lesotho, Nigeria, Swaziland, Zambia and Zimbabwe. "Although the number is not great, we are heartened by the reward that our brand is moving outside South Africa. We acknowledge the fact that the students currently enrolled at MUT are cash paying and the currency differential outside South Africa has an impact on these students," said Zama Sishi, Director of Stakeholder Relations Management. The student recruitment team has also prioritised recruitment within the borders of South Africa and KwaZulu-Natal. Recently they spent a week recruiting students in Vhembe district in Limpopo and will soon be in the Eastern Cape. "Our biggest selling point throughout these visits is the fact that our fees are highly competitive. Both in Lesotho and Swaziland, it was after we told learners about our fees that word spread and more learners started flocking to our exhibition stand. We gladly took potential students through the application process and the choice of either applying online or manually," concluded Ayanda.

The Schools Liaison team was treated like royalty when they visited the Botswana Ministry of Education to forge a relationship between MUT and the ministry. The officials said they would like to see their students venturing out to MUT to gain more knowledge, and they invited MUT to be part of their next exhibition. "I am so happy to have met MUT as this relationship will help our students explore an international level," said Mrs K Kopi from the Botswana Ministry of Education. The team also visited libraries and did a mall activation at Game City Mall in Gaborone to ensure that even the parents got the message that MUT would like to have their children as part of the general student body. "During the visits to our neighbouring countries, we found that many learners were interested in coming to pursue their studies at MUT. Some saw it as an opportunity to see South Africa and experience living in a coastal area. Some were convinced only after seeing pictures of the campus and student residences. Most learners enquired about the Faculty of Engineering and the Faculty of Natural Sciences. Accommodation was another popular question, along with funding and financial aid," said Ayanda Bulose, Assistant Schools Liaison Officer.

EMPOWER

MUT makes the circle (of excellence) bigger

MUT's Vice-Chancellor and Principal, Dr Enoch Duma Malaza, could not contain his emotion at his first Circle of Excellence Awards ceremony since his arrival at MUT. The annual event, which was held on 15 March this year, aims to encourage Umlazi Township high schools to improve their Grade 12 results by recognising those that excelled, and requesting them to partner with those that are not doing as well. "Our view is that education should be the centre of life. We have seen over the years how countries of the world conquered every obstacle with education. The quality of education is the measure of any country's success. Umlazi schools are our neighbours. Investing in their education is worth the effort," said Zama Sishi, Director of Stakeholder Relations Management at MUT.



Menzi High Deputy Principal, Nosipho Mnguni, middle, with Dr Malaza, left, and Mr Nhlanihla Shandu, CES-Circuit Manager, Phumelela Circuit

High school mathematics is regarded as one of the most difficult subjects to learn. In spite of this, some schools did exceptionally well. The school that walked away with the first position in Maths was KwaMathanda High School, from Umlazi's BB section, which achieved 100% pass rate in Maths. The school's Chief Education Specialist (CES), Busi Mahambi, said teaching and excellence in Mathematics ought to be replicated with other subjects. She also acknowledged the need for well-performing schools to help struggling ones. Second place went to Menzi High, with a 92% pass rate, and third went to Dloko High School (77%).

As has now become the norm, Malibongwe Khumalo, a Menzi High School teacher, continued to lead his grade 12 learners to stardom in Physical Science. Menzi High achieved a 100% pass rate in Physics, ahead of Sishosonke High School and Dloko High School, who were placed second and third respectively. All schools achieved a 100% pass rate, but their positions were determined by the number of learners that wrote.

Umlazi schools did very well in English. Nine schools achieved a 100% pass rate in the subject. These were Enaleni High School, KwaMgaga High School, Menzi High School, Mafumbuka High School, Mason Lincoln School, Shumayela High School, Velabahleke High School, Zwellibanzi High School and Vukuzakhe High School. Each English FAL educator received a Woolworths voucher for R500, sponsored by Gem Schoolwear. Their schools received a certificate and 10 dictionaries sponsored by Iqraa Trust.

For the next 12 months the Mason Lincoln Special School, a newcomer, will be wearing the badge of being the "Most Improved School". The school received a certificate, 10 dictionaries and a R2000 Makro voucher. The school scored 100% pass in English and their overall results improved from 33.33% in 2017 to an impressive 67% in 2018. The principal of the school, Busisive Shoba-Morolong, said the awards were a motivation for them "to do even better".



Principal of Makhumbuzi High, Bonginkosi Dlomo, receiving a certificate from sponsors and MUT Management and Education department official

Celebrating the impact of the Circle of Excellence Awards

The Circle of Excellence Awards have made schools become more intentional in improving pass rates. Competing with 28 high schools for a coveted place in the 'circle of excellence', Umlazi principals are working hard to make a difference in their schools.

It is indeed surreal that schools with bare-minimum resources are able to produce a 100% pass rate and secure top positions in mathematics and science. Even one with a single matric class of over 500 learners still managed to attain a 87% pass rate! That would be more than five schools in some private colleges who yearly attain 100% and charge up to R250,000 per annum. Yet, there is a no-fee school that succeeds so overwhelmingly.

The efforts of MUT to add to this great improvement cannot be understated. Sourcing wide-ranging sponsors for the Circle of Excellence awards has had a significant impact on teaching and learning in Umlazi schools. Over years, schools have won mobile laboratories, laboratory consumables, mobile libraries and laptops - all in an effort to ensure that they are well-resourced for success.

.....A year later, nine schools attain a 100% pass in English Language



From left, Dr Malaza, Nomusa Shamase, Circuit Manager, and Nhlanihla Shandu, CES-Circuit Manager, both at Phumelela Circuit



From left, Elet CEO, Nareshini Ranganthan, Dr Malaza, and Dr Baker

The adage, "It takes a village to raise a child" has lived up to its expectations. This year was the first year in the history of the Circle of Excellence awards that nine schools managed to achieve a 100% pass rate in matric English Language. The investment by Elet at the beginning of 2018 shows that English teaching in Umlazi can indeed be improved with the right support.

"In next year's Circle of Excellence awards, this pass rate should grow higher and we will continue measuring the Return on Investment," said Nareshini Ranganthan, CEO, Elet.

MUT's Vice-Chancellor, Dr Enoch Duma Malaza, has tirelessly spoken of the Anchor Strategy which seeks to ensure MUT throws its might behind the marginalised, the downtrodden and people on the periphery to truly empower Umlazi Township. This is a classic example of how anchoring MUT in Umlazi will bring benefits to every stakeholder within it.



Umlazi District Leadership with MUT Management

Dr Malaza informed school principals, sponsors, learners and MUT staff that working with Umlazi as a whole, was part of the University's 2025 Strategic Plan. "With our Anchor Strategy, which is part of the 2025 Strategic Plan, I want to see MUT being at the forefront of revitalising Umlazi Township. Umlazi Township is known for producing great industry leaders such as Sizwe Nkasana, Sandile Zungu, the Mxenges, Peter-Paul Ngwenya, who owns Igagasi FM, and many more," said Dr Malaza. The VC stressed that he would like to see industry leaders assuming an active role in working with the schools and MUT to rebuild the township's youth ambitions. He added that learners needed to be given the correct information about what universities could do for them so they did not see them as welfare states.

The day's main attraction was the awards. This year the top performances in English were added to the traditional categories of Accounting, Mathematics and Physics. "English is the bedrock of almost every form of learning and communication in South Africa, with all due respect to the other languages," said Zama. Leading the top three Accounting schools was Menzi High School, with a 100% pass rate. Since the inception of the CoE six years ago, Menzi High School has received an award every year for being among the top three schools in Accounting. Behind Menzi were Zwellibanzi High School and Embizweni High who both achieved 92.31%, achieving second and third place respectively. They both received a Makro voucher of R1000, while Menzi received a R2000 voucher.

Iqraa Trust partnership empowers more than twenty schools



Iqraa Trust team with some principals and MUT staff at the libraries handing over

It has not even been a year since Iqraa Trust, through its Chairman Dr Mahmoud Youssef Baker, reached out to MUT as a possible partner in a number of teacher development and schools enhancement projects. Yet the partnership has seen over 25 schools from Umlazi Township benefiting already.

Iqraa Trust is a humanitarian organisation that has been investing in higher education through bursaries and interest-free loans to University students for many years. Their focus spreads across a number of areas including sustainability and green solar energy, capacity development in financial sustainability, teacher development, research and innovation as well as the Iqraa Trust Knowledge Centre. Noting that the Trust had not yet reached Umlazi Township, Dr Baker identified MUT as a strategic partner to ensure that Iqraa's work also impacts on Umlazi's local communities. He met with the MUT Vice-Chancellor, Dr Malaza where they discussed a number of areas of collaboration between the two institutions. Some areas identified included bursaries for MUT students and mentorship by Iqraa Trust when MUT establishes its own foundation. The spin-offs of the partnership have been instantaneous, with Umlazi Township schools being the biggest beneficiaries. Understanding MUT's vision 2020-2025 of growing together with the community of Umlazi, Dr Baker works closely with MUT's Marketing and Communications (MarComms) department to enhance MUT's stakeholder engagement programmes. Dr Baker is an economist who is very passionate about education and believes that building a strong foundation at an early age for learners is the key to building a successful nation.

On 13 September 2018 Dr Baker visited Khalipha Primary School in Umlazi's Z Section to donate library books to five primary schools in the township. This was the start of a very strong partnership. In February this year Iqraa Trust donated mobile libraries stocked with 150 books each, valued at R250 000, to ten primary schools. These mobile libraries can hold more than 1000 books each and Dr Baker refers to the 150 books as just a 'starter pack' for these schools - some of which did not have any reading materials for their learners at all.

Asked why he thought it was important for these schools to have libraries, Dr Baker said, "Imagine a nation that does not read: they will not be able to catch up with technology and the realities of the world. Even at work you will be a liability if you do not read and keep abreast with the world news. Even at universities, distinguished academics are those that read. Please use these libraries efficiently; we will visit with you to do a follow-up and assist with training."

Dr Baker said Iqraa Trust supports any good cause. This was proven on 15 March 2019 when the Trust responded positively to a proposal by MUT to support the Circle of Excellence awards to recognise schools that achieved 100% for English First Additional Language in the 2018 matric exams. Although Dr Baker was not familiar with the CoE Awards concept, he knew that his Trust would want to be associated with the CoE after reading the proposal and noting how hard the teachers and learners of Umlazi Township schools push themselves to achieve great results with limited resources. He approved a donation of 100 dictionaries that were distributed to the nine schools that each achieved a 100% pass rate in English in 2018 - Enaleni High School, KwaMgaga High School, Menzi High School, Mafumbuka High School, Mason Lincoln School, Shumayela High School, Velabahlake High School, Zwelibanzi High School, and Vukuzakhe High School. The schools had indicated a need for dictionaries and specifically requested that MUT secure a donor to provide them. All these schools have learners from financially disadvantaged families and one of the schools is a school for learners with special needs. While a dictionary might seem like an easy purchase for some people, for many of these learners they are unaffordable. The donated dictionaries will enhance the learners' understanding of English which is a challenge for many learners transitioning from high school to university.

The MUT and Iqraa Trust partnership is set to grow as the two parties collaborate further to assist Umlazi educators to submit applications for the Fulbright Distinguished Awards in Teaching, for a possible opportunity to attend a six-week teacher development programme in the United States.



Dr Baker

DELIVER

MUT to strengthen governance through new divisional heads

"Good governance is at the heart of any progressive organisation. Once you sort out governance issues, you will succeed as an organisation." These were the words of Dr Enoch Duma Malaza when he first joined MUT as Vice-Chancellor and Principal less than a year ago. Today we salute the new managers that have been recruited to be part of decision-making and good governance at the University.

Meet the team tasked with ensuring optimal performance, inculcating a risk awareness culture and a passion for innovation:

Fozia Madhi, Senior Director: Legal Services

This seasoned University attorney brings with her 29 years' legal experience and 23 years' management experience.

Born and raised in Johannesburg, she left Johannesburg to work at Walter Sisulu University in the Eastern Cape in 2008. In December 2018, she relocated to Durban to join Mangosuthu University of Technology as Senior Director: Legal Services.

Fozia has a Bachelor of Arts (BA) and a Bachelor of Laws (LLB) qualification from the University of Witwatersrand, and was admitted as a qualified attorney in June 1994. She also has a Masters of Law (LLM) qualification from UNISA and she specialised in Labour Law, Human Rights Law, Family Law and Insurance Law.

Fozia says her "passion is education, in particular the education of disadvantaged students who through their qualifications can create a better life for themselves and their families and a better South Africa and world".

She had to hit the ground running in order to deal with student issues and various backlogs at the beginning of the year. The last time the University had an attorney was in 2014. She hopes that she will be able to reduce the University's legal bill as the university has had to source many different attorneys. "I intend mending relationships and ensuring constructive engagement even when there are disagreements by encouraging mediation and amicable resolution of legal matters," Fozia said.

Muzi Khumalo, Senior Director: Operations

Muzi has been seconded to the executive management team, where he made his mark using his project management experience during student fee negotiations. He has introduced new systems in procurement in order to allow an efficient and effective procurement system. "Transition may be difficult initially, but in the end, we will ensure a transparent and timely procurement system," he reassured executive management.

His responsibilities span across various departments, including Infrastructure Planning & Projects, Estate & Facilities Management, Safety & Security, Transportation & Circulation, and Printing & Postal Services. "These functions are instrumental in providing support services for effective academic activities at the university. A more responsive, accountable Operations directorate will support teaching & learning and culminate in the pipeline for MUT include establishing a Call Centre Help Desk for all University Operations, improving infrastructure investment spending to R40 million per month, establishing automated systems & work flow processes, as well as advocating a culture of professionalism.

Muzi says the first thing he thinks about when he wakes up is "my to-do list for the day". Muzi hails from Bergville and has two sons.

Jerome Mabaso, Director: Internal Audit, Enterprise Risk Management and Compliance

A PhD in IT has not deterred Jerome - the man tasked with MUT's Enterprise Risk Management, internal audit and compliance management - from being a sports fanatic, athlete, avid supporter of Kaizer Chiefs and Manchester United, Ukhozi listener and man of prayer.

His plans for MUT include "inculcating a culture of risk awareness and risk management throughout the University; enhancing and protecting organisational values by providing risk-based and objective assurance, advice and insight; as well as fostering a culture of ethics and compliance that is central to all of the University's operations and activities". He sees his role as contributing towards the achievement of University goals. "Whatever strategy the Institution implements, there must be systems of controls in place to ensure that the strategy achieves the mission".

In less than four months at MUT, he has impressed the Audit and Risk Committee with the systems he has put in place. "It is always fulfilling to be part of the winning team. I therefore would like to maintain a good reputation for MUT, and enhance its brand by being the guardian of governance across the University. I see myself as a 'game-changer', where I bring motivation, enhance risk management discipline, and promote good corporate governance," says Jerome.



Muzi khumalo



"To resolve legal matters amicably!"
Fozia Madhi



Welcome to MUT!
Dr Malaza, left, welcomes Dr Mabaso

Zolisa Gqamane, deputy registrar, academic

Mr Zolisa Gqamane is encouraged to wake up every morning and use his knowledge to contribute towards changing MUT for the better.



Dr Malaza, left, welcomes Gqamane

"The key focus areas our unit is to ensure that our processes are clearly guided by rules, regulations and policies. If our processes are clearly guided by the above aspects, it is going to be easy for us to identify and attend to gaps and challenges being faced by our units. Since we will compare our approved policies with our present practise which should talk to each other. Currently, we have just embarked on the benchmarking exercise which will ensure that we have the required and compliant rules, regulations and policies. We will not relax up until we are convinced that all our processes and their systems are seamless, user friendly and guided by policies. Our processes include, selection and admissions, registration, examinations and graduations".

He wants to ensure that every unit has its own policies developed and updated, in order to enforce compliance to MUT rules, regulations and policies. He would also like to implement a client-centred approach in as far as delivering our services to our clients. He is a Christian who prays for his family, relatives and his colleagues. He is here to contribute towards improving MUT and the quality of our graduates. His family is his pillar of strength; especially his wife and his kids.

Another DST recognition for Dr Njabulo Gumede

Dr Njabulo Gumede's attainment of his PhD in 2016 was not the end of his research journey. Two months later, he was awarded a R150,000 grant from SAB for his cancer research. This was immediately followed by a R1 million grant from the South African Medical Research Council. For this grant he collaborated with international researchers from the US, Spain, Dr Marcelo Bravo his mentor and CEO of Oxford Pharmascience PLC, as well as Prof Krishna Bisetty from DUT.

In March this year, he has yet again received an award from NIPMO in conjunction with the Department of Science and Technology (DST). "The award is mainly for the two patents that we lodged in the past four years. We started with one provisional patent in 2015. Then in 2016 we lodged a Patent Cooperative Treaty (PCT). This patent was protected globally during that time and was lodged in the Australian International patent office. The patents were resubmitted and the International search report (ISR), together with the Written Opinions (WO) rendered the claims as innovative, inventive and with industrial applicability," said Dr Gumede.

The two patents were further revised and underwent examination by the international patent office. All these stages took place in 2017 with the assistance of Moore Patent Attorneys and Dr Mienie's office. The two PCTs were published by the international patent office in April 2017. Then in 2018, the two PCTs were lodged in the national phases i.e. in RSA, USA, EU and Canada. The patents will be granted in these different due restrictions in 2020/21.

"The NIPMO and DST is now acknowledging and rewarding our efforts as we have reached a milestone that was not reached before. It is rare for a first patent to be rendered as innovative, inventive and with industrial applicability in due restrictions with stringent protocols like the US and the EU regions", said Dr Gumede.



Dr Njabulo Gumede

Faculty of Natural Sciences

Faculty of Natural Sciences on a new high

Prof Alfred Msomi, acting dean in the Faculty of Natural Sciences, speaks with passion when asked about his faculty. Just before the end of the year, a number of his faculty colleagues attained postgraduate degrees, and the 2018 MUT annual report attests to both the faculty's increased research output and its many national and international engagements.



Prof Alfred Msomi

"The Faculty of Natural Sciences is set to do even better. We are going to put plans in place to improve our research capacity and we will request our senior research staff, like Prof Roger Cooposamy and Prof Akash Anandraj, to run workshops on research for our staff. We want to grow our own timber. This may lead students from other institutions to approach our senior staff for supervision for their senior degrees. I am going to propose that their current workload be modified to accommodate the added responsibilities," said Prof Msomi. Prof Cooposamy, who has supervised and graduated students from other institutions, has already indicated that he is ready to take up the challenge.

Growth in the attainment of terminal degrees at the Faculty of Natural Sciences

- nGap Junior Lecturer Ms SI Nkosi completed a Master of Nature Conservation degree cum laude in December 2018.
- Mrs T Zikhathile completed an MSc in Environmental Science in October 2018.
- Mr SC Gumede completed an MSc degree summa cum laude in December 2018.
- Mr JJ Msane and Ms Z Sibaya obtained MSc degrees in Information Systems.
- Ms NP Ndlovu obtained an MSc in Food and Nutrition.
- Mr EN Mtshali achieved "Expert Level Instructor" with Cisco.
- A group of IT students was placed third in the National Hackathon.
- Ms NX Mkhize was awarded a Nuffic Fellowship Programme to attend a course on "Food security in an urbanising society" at the Wageningen Centre for Development Innovation, in the Netherlands in September 2018.
- Ms TR Kunene was awarded a Master's degree in Agricultural Extension & Rural Resource Management (MAgic AERRM) by UKZN in April 2018. Ms Kunene was also awarded a certificate from Wits Business School in Fundamentals of Project Management.

Dr Vuledzani Nico Ndou, an up-and-coming researcher in Natural Sciences

Dr Ndou completed his Doctor of Philosophy in Plant breeding (Biotechnology) at the University of KwaZulu-Natal in just three years. His research focused on conducting a genetic analysis of maize hybrids derived from temperate by tropical germplasm under low and high plant population density.



Dr Ndou

As a member of the Community Extension department at MUT, he is now focusing on boosting his research capacity in order to impart relevant knowledge and skills to students as required by the agriculture industry. "My professional mission with MUT is to improve the skills and knowledge of students in my department, and I intend to achieve this by working to reform the student mentality towards hard-to-improve knowledge, so that no students under my supervision leave the university without a knowledge content of their chosen careers. I will work hard to do my part," he says.

He has recently received a PhD Supervision certificate from Stellenbosch University and was also awarded an NRF grant for a teaching assistant, which will assist him to manage his teaching workload and pursue research, community engagement projects and other career growth and development activities.

Nature Conservation dominates MUT's 2018 accredited journal submissions

When MUT submitted its list of DHET-accredited journal submissions for auditing in 2018, the Department of Nature Conservation emerged as the top contributor. Out of 68 articles published by MUT staff in DHET-approved journals in 2018, 14 were by staff members of the Department of Nature Conservation. This constitutes 20.6% of the total articles published.



Leading the pack! From left, Prof Georgina Arthur, Prof Cooposamy, and Prof Small

The department head, Prof Peter Small, said it was his team's dedication that ensured their success. "Over the years our department has been leading in all three aspects of university life - research, teaching and community engagement. We took a decision that we would focus on these areas, and work as a team. Our department has the least turnover, and the biggest number of professors. We believe in ourselves and what we are doing," said Prof Small. He added that collegiality was central to the way staff members conduct their work, and that they worked extra hours so the department could achieve its aims.

Associate Professor, Roger Cooposamy, agreed that their main strategy was working together as a team. "We collaborate and work as a family in our department. Also, we keep moving the bar to the next notch for ourselves. This year we aim to publish more," said Prof Cooposamy, one of the serial award winners in the department.

Another NRF rating for MUT academic
 Prof Alfred Msomi, Acting Dean of the Faculty of Natural Sciences, proudly made an announcement at the last Senate meeting of Dr Lungi Kwitshana's rating as a C3 researcher by the National Research Foundation (NRF). MUT is also proud to see one of its first alumnus receiving this recognition. Dr Kwitshana is registered as a Medical Scientist with the Health Professions Council of South Africa (HPCSA) and is also a member of the South African Immunology Society.



Dr Kwitshana, foreground, with Prof Msomi

Armed with the MUT National Diploma in Medical Technology (Clinical Pathology) she received in 1987, Dr Kwitshana has come back to MUT full-circle. She returned to MUT in 2015 as Head of Department of Biomedical Technology and her research output has grown proportionally. Dr Kwitshana has published 16 peer reviewed journal articles, two book chapters, a book and 22 conference abstracts.

Dr Kwitshana has been a Principal Investigator in several research projects that looked at the intersection between immunity, nutrition and co-infections with HIV, and attracted millions in grant funding. Dr Kwitshana also serves as a reviewer for Master's and PhD protocols.

Dr Kwitshana has a national and international academic footprint. She was appointed by the Minister of Health to serve two terms as a Board Member of the South African Medical Research Council (SAMRC). Dr Kwitshana is an Editorial Board member of several international journals. She also serves as a reviewer of international journals. She is a recipient of the UK CIA Immunology Fellowship. Dr Kwitshana is a co-founder of the National Parasite Control. She has been appointed by the Director-General for Health to serve as a member of the NTD Forum. Dr Kwitshana has supervised to graduation Honours, Masters and PhD students. She serves as a reviewer for NRF, DHET and other national institutions.

In 2017, MUT recognised Dr Kwitshana during its Annual Research Awards evening with a Gold Award for the greatest number of publications and a Silver Award in recognition of a researcher with the highest funding in 2017. The NRF rating affirms years of hard work in research and research mentorship. Senate congratulated Dr Kwitshana for this great achievement.



The late Bongi Mkhize

Posthumous recognition - Mrs Bongi Mkhize (nee Masuku)

The late Mrs BT Mkhize organised the Agricultural Extension Summit in partnership with KZN Department of Agriculture, South African Sugar Association (SASA), University of Zululand and University of KwaZulu-Natal to focus on agriculture, extension, food security and the importance of the curriculum and professional registration by students. The summit was held at MUT's Faculty of Natural Sciences on 16 October 2018, with great success. Mrs Mkhize's spirit, energy and intellectual contribution will be sorely missed by all who knew and worked with her.

SUSTAIN

Growing Umlazi from the ground up: celebrating the schools that sow the seeds of greatness



Dr Dlamini, middle, receiving an award from Dr Malaza, left, and Mr Shandu

Dr Vusi Dlamini, principal of Ogwini High School - 35 years and counting

Hailed by many as a great teacher and leader, the principal of Ogwini Comprehensive High School, Dr Vusimuzi Dlamini, was honoured by MUT for his outstanding leadership during the Circle of Excellence Awards hosted at Umlazi Comtech High on 15 March 2019. Dr Dlamini has dedicated 35 wonderful years of his career to Ogwini, shaping the school into a giant international brand through his undying passion for choral music, sports, culture, and the ability to form partnerships with international institutions. At the COE Dr Dlamini received the coveted Felix Mshololo Brand Leadership Award, which recognises leadership and academic excellence by Umlazi Township principals.

Dr Dlamini encourages participation in cultural and choral competitions and Ogwini has certainly made a name for itself in the choral music space. Over the last five years the school has received 33 trophies for cultural competitions. Under Dr Dlamini's leadership the school also boasts a number of successful alumni who have a huge respect for him as a principal, a father and a mentor. He instils a sense of pride in the learners such that after completing their tertiary studies, they give back to the school by providing food for the Care Centre (where meals are provided for the less fortunate), buying uniforms, providing bursaries, and paying for renovations to the school's infrastructure.

Dr Dlamini is a hands-on principal with very strong networking abilities. His leadership style has enabled Ogwini to establish linkages with three schools in the UK. Perins Sports College has had a partnership with Ogwini for over ten years, dating back to a meeting of their two principals at a British Council Partnership Programme. Every two years, Perins learners and teachers come and give a two-day workshop on sporting codes to Ogwini learners. Twenty Ogwini learners and five management members have also visited Perins on a sports development programme. In addition, Dr Dlamini has also built partnerships through a chance meeting about 13 years ago with two schools in Scotland. Dr Dlamini met the principal of Saint James Gillespie High School, then networked with Gracemount High - resulting in another partnership that is in its twelfth year. In 2016 another school in Edinburgh joined the Gracemount group. The purpose of these exchanges and meetings is to see that the curriculum of Ogwini Comprehensive High School is an international one.

“Our school is authentic and lives by the mantra that 'the doors of teaching and culture shall be open to all’”.

Ogwini accepts all learners and proceeds with a teaching strategy to deal with differentiation. We were one of the few schools in Umlazi Township to have study in the afternoon. When I took over as principal, in consultation with the educators, we introduced afternoon study for grades 10, 11 and 12 until 5pm. The aim was to get learners used to self-study, where they engage with the textbooks and revise material learnt during the day. Another innovation that sets us apart was the introduction of nine subjects when the new syllabus was introduced after 1994. This innovation has assisted Ogwini learners to get the required points for tertiary education. It also opens up different career opportunities to learners,” said Dr Dlamini.

The Felix Mshololo Brand Leadership Award is a well-deserved honour for this exceptional leader who has played a major role in creating a great brand out of his school and has been key in maintaining relationships with the school's main stakeholders, its learners. He has not only elevated Ogwini Comprehensive High School but also Umlazi Township and South Africa as a whole.



Excellence in Maths!
From left, Thamsanqa, Bheki, and Sam

Velabahleke High School leads in Mathematics excellence

Student success is the mirror through which the excellent work of teachers is celebrated. Behind the notable mathematics results achieved by the matric learners of Velabahleke in the 2018 National Senior Certificate exams are two young men, Thamsanqa Vezi and Sam Mtshali. School principal Mr Bheki Mhlongo speaks very fondly of their excellent work. Thamsanqa has a BSc in Mathematics & Statistics from the University of Cape Town. He worked as an educator at Mqhawe High School in 2014 and has also worked for Sasria SOC Ltd as an Actuarial Analyst and for Nedbank Insurance. He joined Velabahleke High School as their mathematics educator in 2017 and is proud to be contributing to a township where he was born and grew up. Sam is from Empangeni in northern KZN and holds a Bachelor of Education from the University of KwaZulu-Natal. He worked as a tutor in the mathematics department at UKZN before joining Velabahleke in 2016.

In the NSC 2018 exams Velabahleke High School not only produced a learner who scored 100% for mathematics, but managed to achieve a total of 26 distinctions in the subject. This achievement is not to be taken lightly for a school that only offers pure maths to all its learners from grades 8 to 12. A total of 185 grade 12 learners wrote and all passed mathematics.

The school's overall achievement was a 100% pass with 128 Bachelor passes, 38 Diploma passes and 19 Higher Certificates. "I am very proud of the outstanding work of our educators. Through their hard work our school was awarded with top honours in the district with mathematics passes. Every educator at Velabahleke works hard to achieve the good results. We offer weekend mathematics lessons for all grades, not only to our own learners but also to learners from other schools including ex-model C schools. We have set a performance goal for ourselves and are working hand in hand with learners and parents to see to it that our 2020 target is achieved," said Mr Mhlongo. He joined Velabahleke as principal in 2016 and is confident that his vision for the school will ensure that its strong academic reputation is preserved for years to come.



Menzi High Principal, Muntu Ntombela, right, with former Umhlanga District Director, Bheki Ntuli, left, and MUT's DVC Teaching and Learning, Prof Marcus Ramogale

Menzi High School is still No.1

Four years after the death of Mr Felix Mshololo, who was principal at Menzi High School for more than twenty years, the school is still amongst the top achieving schools in KwaZulu-Natal. At the time of his passing Mshololo had created a brand that is known for academic excellence. Now led by Ms Muntu Ntombela, the school is still a force to be reckoned with. Since the commencement of MUT's Circle of Excellence awards in 2012, Menzi High School has been scooping awards as overall winner. In the 2018 NSC exams, Menzi High School not only achieved a 100% overall pass, it also achieved 100% passes in 10 out of the 12 matric subjects they offer. The strong message of academic excellence runs across from grade 8 up to grade 12 learners, educators and the school's administrative team. "No one person can claim this success; we achieve all this as a result of strong team work by all educators, including our grade 8 teachers. I am very proud of the entire team," said the soft-spoken and humble Muntu Ntombela.

A snapshot of Menzi High School's 2018 matric achievements:

Subject	No of learners who wrote	No of learners passed	% pass
Accounting	95	95	100
Business Studies	48	48	100
Economics	48	48	100
English	212	212	100
Geography	116	116	100
History	54	54	100
IsiZulu	212	212	100
Life Orientation	212	212	100
Life Sciences	164	162	99
Mathematics	158	147	92
Mathematics Literacy	54	54	100
Physical Sciences	110	110	100

*Overall Pass Percentage - 100%
Number of Bachelor Passes - 178
Number of Distinctions - 311

Congratulations! Master's degree in Nature Conservation Class of 2018

Meet the second cohort to graduate for this very one of a kind qualification. This is still the only qualification of this nature to be offered in the country at any University of Technology.

Simangaliso Mthombeni



Citation: Culverts a medium for promotion of freshwater fish population biodiversity: A case study in the Durban Metropolitan, South Africa.
Supervisor: Professor M. Coopoosamy (MUT)
Co-supervisor: Professor A. Anandraj (MUT)
Employer: Countryline Horticulture, Umhlanga, Durban

Feziwe Ndebele



Citation: Comparison studies on the efficacy of glyphosate and organic fertilizer for the control of Parthenium hysterophorus in the Zulu Nyala Safari Game Lodge.
Supervisor: Professor A. Anandraj (MUT)
Co-supervisor: Professor M. Coopoosamy (MUT)
Employer: Suikerbosrand Nature Reserve under the Department of Agriculture and Rural Development.

Musawenkosi Thami Cleopas Kunene



Citation: Investigation on the mortality trends of Celtis Africana (White stinkwood) at Hawaan Forest Nature Reserve: A case study in eThekweni Municipality, Umhlanga Rocks, KwaZulu-Natal, SA.
Supervisor: Professor A. Anandraj (MUT)
Co-supervisor: Professor GD Arthur (MUT)
Employer: eThekweni Municipality, Parks Recreation and Culture: Natural Resources Division

Torsten Shepherd



Citation: The Occurrence and Importance of Soil Microbes to the Ecological Restoration of Dune Forests in Northern KZN.
Supervisor: Prof M. Coopoosamy (MUT)
Goals: Restoring Previously Degraded Lands for Sustainable Use.
Employer: Currently employed in the Healthcare Sector.

Sithembile Nkosi



Citation: Ecophysiological studies of Anredera cordifolia and its control in Kwa-Zulu Natal, South Africa.
Supervisor: Dr K.K. Naidoo (MUT)
Co-supervisors: Professor GD Arthur (MUT) Dr W Otang-Mbeng (University of Mpumalanga).
Employer: Mangosuthu University of Technology, Department of Nature Conservation

Nkanyenzi Alfred Sigubudu



Citation: Validation for the use of medicinal plants for treating mental disorders in KwaZulu-Natal (uThukela District).
Supervisor: Professor M. Coopoosamy (MUT)
Employer: Ezemvelo KZN Wildlife

MUT graduate gives time to empower students

Joining MUT in 2012, Smanga Mathonsi was a young man full of dreams. He thanks MUT for propelling him towards achieving them, and he now says it's time for him to uplift other aspiring MUT students by offering them free extra tuition to help them complete their studies in record time, with distinctions just like him. Smanga, a young lad from KwaSithembe in Mandeni, completed both his diploma and BTech in Accounting at MUT.

"Pursuing my two qualifications opened a myriad of doors for me to achieve my career dreams. I was very fortunate to be given a rare opportunity to serve my articles before I actually graduated from my B.Tech. I was interviewed as the only diploma candidate to serve the articles, but that did not give me any challenges. I went on to pass my board exam in May 2018 and was immediately offered a job by Premier Professional Accountants. I am very grateful to my lecturers, especially Mr Francois Kenga, senior lecturer in the Department of Accounting."

He has a good way of showing students how to approach Accounting, and his standard is very high. Getting 50% in his class is worth about 90% in industry," Smanga said.

Smanga admits that his best times at MUT were mostly shaped by the type of friends he kept. His friendship with Nkosinathi Madlala and Sifiso Mbambo, who are now both employed by Transnet, was based on supporting one another to focus on their studies. The three young students created a policy of learning something new every day, which is what propelled them to achieve many distinctions and assist numerous fellow students with tutorials.



Smanga Mathonsi

Smanga understands very well how challenging it is to adapt to the tertiary environment, especially for students from under-resourced schools. For the past six years he has been an unrecognised tutor for MUT students. He has since established formal free tutorials in Accounting, Taxation, Auditing and Management Accounting, which includes a weekend accounting boot camp to prepare students for examinations. In 2018 he launched a competition for final-year accounting students in partnership with the South African Institute for Professional Accountants (SAIPA). The competition, which was open to all students regardless of their grades, was an overwhelming success, with students showcasing their knowledge of accounting to compete for prizes sponsored by SAIPA (trophies, prize money for the top three winners, and an overall prize).

The competition was hosted at Astra, an outsourced residence for MUT students. "After the competition we received many requests from students from other institutions who reside at Astra to also include them in the competition. Going forward the competition will be an annual event open to students from any institution. This gives us an opportunity to showcase our skills learnt at MUT and also to increase the number of students we impact upon," said Smanga.

Smanga's dream just keeps getting bigger as he achieves more and more milestones. He is also a co-owner of a non-profit organisation that trains accounting students on relevant accounting software to assist them to improve their chances of employment in the accounting sector. Smanga's ultimate goal is to open a company or own shares in an accounting firm while actively running his NPO.

MUT Convocation AGM zooms in on graduate unemployment

The Annual General Meeting (AGM) of the MUT Convocation, hosted on campus on 17 November 2018, took a serious look at matters of graduate unemployment and related social challenges affecting university students. Addressing Convocation, the MUT Vice-Chancellor Dr Malaza expressed concern at first-year students' lack of preparation for the tertiary environment, citing incidents of suicide and attempted suicide. He shared his vision and strategy to curb this pandemic. This includes refocusing the orientation of new students to include an orientation into the neighbourhood, as well as a stakeholders' summit early in 2019 to look into student under-preparedness and possible solutions.

Mr Kwenza Madlala, Convocation President, focused his address on the challenge of graduate unemployment and urged graduates to work together to find solutions.

"Your presence in this gathering is directly interpreted by the Convocation Executive Committee as a symbol of great commitment to institutional development and sustainability. By the same token, such a degree of commitment cannot be viewed in isolation from the harsh realities faced by our graduates. Amongst the 6.2 million unemployed South African citizens are our own graduates. These are students we shared a lecture room with, students we lectured and as an institution they are the people we skilled in the hope that their qualifications would give them a better chance to secure employment and better their lives and those of their families," he shared.



Mr Kwenza Madlala,
MUT Convocation President

Amidst the harsh realities of graduate unemployment, the President reminded Convocation of the potential that lies within them. He urged MUT alumni to group themselves and share opportunities to re-invest into this institution in various ways, and also to suggest solutions to government on issues of graduate unemployment. "As Convocation we have an enormous responsibility of ensuring that our institution stands and achieves pre-eminence. I challenge fellow graduates, especially those who graduated with the Department of Agriculture, to take the lead in seeking Public-Private Partnership MoUs with the Department of Agriculture to ensure that MUT plays a vital role in educating small farmers for the development and sustainability of subsistence and commercial farming. Agriculture plays a significant role in the country's economy and could provide a far greater opportunity for employment," said Kwenza. In order to curb the high rate of unemployment, he re-iterated the urgent need to develop entrepreneurs as one of the critical areas for the institution to invest in.

Moses Kotane Institute CEO remembers her challenging years as an MUT student

Coming from high school and not understanding a word in lectures because of the language barrier and content shock is one of the vivid memories Thandeka Ellenson, the acting Chief Executive Officer at the Moses Kotane Institute, shares about her first semester as an MUT student. Initially she wanted to study chemical engineering but could not make the admission requirements. She ended up studying for a diploma in human resources management, which she says was the start of her life. Although she always thought she wanted to be in a laboratory mixing chemicals or doing a job that involved calculations, she knew that one day she would run a company in one way or another. She confesses that by the end of the first semester the future looked bleak - but the thought of quitting and going back home to explain to her grandmother that she wasn't coping was even scarier.

She knew she needed to stick it out for at least one more term. One of her major subjects was business management, which turned out to be the first subject she fell in love with (and enjoyed so much that she completed the entire course in record time). She has since completed a number of post-graduate studies with other institutions in South Africa and abroad, focusing mainly on accounting, governance and operations. Her highest qualification is an MBA in Finance which she completed with Anglia Ruskin, an institution in the UK.

"MUT opened my eyes to a world of possibilities both for my career and life in general. I got an opportunity to mingle with different students from different backgrounds, and I learned two key lessons as a student: you are the consequence of your choices, and you can't achieve what you cannot visualise. I have worked in various sectors and companies, including MUT, UKZN, SASA, CIDB, Land Affairs, SABC, and currently at the Moses Kotane Institute of Research. I have also worked in various portfolios including research, marketing, accounting, finance, projects, compliance, governance, human resources, operations and more. I see myself as an all-rounder and do not confine myself to one specialisation," said Thandeka.



Thandeka Ellenson,
Acting CEO, Moses Kotane Institute

Making a conscious decision to give back, Thandeka established a bursary fund in 2017. The fund supports students with registration fees because sponsors and NSFAS are often slow to process applications. The bursary enables new students to register and reserve spaces with tertiary institutions so that they do not lose out due to financial challenges. Thandeka also mentors women who are starting businesses in communities, guiding them in what doors to knock on for funding, what documentation to prepare for company registrations and so on. She also runs a short-term loans business called Ellen Invest and a Company Secretarial consulting service under the name ACCSEL. As if these roles didn't require all of her time, she is also an examiner for the Risk and Compliance module at CSSA.

"I am currently acting Chief Executive Officer at the Moses Kotane Institute, but my normal role is that of Chief Financial Officer at the same institute. These roles require vision, dedication, discipline, integrity, honesty and hours of serious thinking and implementation. You must be able to see the bigger picture to craft the direction of the company while solving problems daily," Thandeka said.

Although her transition from high school to university was not an easy one, she has crafted a very lucrative career and advises the youth to use their passion to start businesses. She strongly believes that creating one's own economy is the most guaranteed means of achieving economic freedom.

Marketing graduate provides engineering solutions

Thabang Mofokeng, chief executive officer of SAMAC Engineering Solutions (Pty) Ltd, has always been a strong support to his peers by providing innovative ideas for any sort of challenge. In his years as a marketing student at MUT, he never aspired to join the student representative council but was the main go-to person for advice and support to wishful SRC candidates. This solutionist desire ultimately resulted in the founding of SAMAC Engineering Solutions - a mechanical engineering solutions company focusing on technological research & development and component fabrication. The company's services include the supply of thermal energy storage air conditioning, tooling and component fabrication and design services. On 29 November 2018, SAMAC received an award for being the Most Innovative company at the SAB Kickstart awards: a great endorsement for the work that Thabang and his teammates are doing.

"What sets us apart is that we are a green company; we support clean energy and zero carbon emissions in all our inventions. One of our award-winning patented inventions is the first African designed and manufactured thermal mobile air-conditioning unit, launched during the Business Fair in 2017. This air-conditioning system reduces electricity cost by up to 30%. Its distinctive feature is its ability to generate thermal energy during off-peak period when electricity is at the lowest billing rate, thereby offering a load shifting advantage. We believe that through our energy saving products we contribute greatly to environmental sustainability," said Thabang.

With his vast experience and professional training in Marketing & Business Management (he holds strategic positions such as chairperson of the SME Forum and business advisor/mentor for the Umsobomvu Youth Fund), it made sense for Thabang to team up with experts across various engineering streams. The result is the power-packed team that is the brains behind the SAMAC Engineering Solutions brand. This team of innovators is working tirelessly to spread their wings beyond South African borders through participation in international conferences and exhibitions. SAMAC was recently selected by SEDA KZN as one of the few companies to attend the Manufacturing Best Practices Tour in India in December 2018.

Amidst his very busy schedule, Thabang is a regular visitor to MUT, his alma mater. His company has many joint projects with MUT's Research Office and the Faculty of Engineering. The collaboration includes knowledge sharing and testing of inventions. There is also the possibility of Thabang doing presentations and mentoring MUT students on entrepreneurship. This would be a welcome contribution to enable MUT students to rise above the challenges of graduate unemployment.



Thabang, right, with Dr Malaza



Mapule Sikhosana

Juggling a post-grad qualification and weight loss? No sweat for Mapule

Mapule Sikhosana, Senior Secretary in MUT's Directorate of Institutional Planning & Research (DIPR), is graduating with a Post-graduate Diploma in HRM (PDHRM) - one of only 20 people to attain this after 16 dropped out. The PDHRM is offered at NQF Level 8 and therefore it articulates horizontally into an Honours degree or vertically into a Master's degree.

Mapule undertook the course full-time, which meant she left the University at 8pm from Monday to Friday. "This course couldn't have come at a better time for me. I always wanted to further my career. I had attempted to register with DUT and UKZN but it was not going to be easy leaving work and going to another campus to attend lectures," she said.

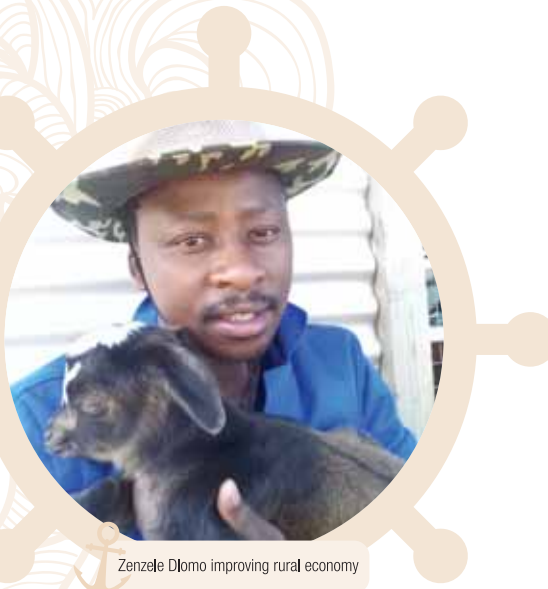
Over and above ensuring that she completed her studies, Mapule also had to undergo a weight loss programme. "I have been on many weight loss programmes and I am well aware about obesity in this country, hence I had to take the challenge to lose weight. I read articles on obese and overweight people and how they are at risk of contracting Type 2 diabetes, various cancers and musculoskeletal disorders like osteoarthritis, a highly disabling degenerative joint disease which is what I suffered from. We need to be aware of all these ailments that could affect us, and awareness needs to be created even at our workplaces. We need to prioritise a healthy and active lifestyle," said Mapule.

Zenzele's passion for agriculture outweighed three years of training

Zenzele Dlomo (28) applied at MUT to study for a diploma in Agriculture in 2008, but to his disappointment he was not admitted for his first choice. However this did not discourage him: he had done his research and knew that MUT was going to give him a strong foundation to pursue any career. Zenzele accepted MUT's offer of a place in the Public Finance and Accounting diploma, but he never lost sight of his passion - to learn more about agriculture so that one day he could contribute to the development of the rural economy through farming.

In his first year at MUT, Zenzele would go across to the Natural Sciences faculty to interact with agriculture students and lecturers to obtain basic information about career options and how he could transfer to agriculture after completing his accounting diploma. What may have looked like mere curiosity has contributed to a ten-year long farming career. In 2009 Zenzele opened a small goat farming business called Gayede Goat Project in his home village of eMakhabeleni in Kranskop. Juggling his studies and a business was never a challenge for Zenzele because he was driven by a passion for farming and was armed with plenty of research about the path he wanted to take.

"The business started very small, but the dream was too big for me to settle for what it was. Three years into the business I needed to move to a bigger farm which also required more financial injection. I was fortunate to get financial investment in 2013 from the National Youth Development Agency (NYDA). This funding enabled the dream to grow bigger and the business footprint to expand throughout KwaZulu-Natal," said Zenzele. His desire for the business to make a difference to the lives of rural communities was amongst the founding principles for the Gayede Goat Project. Local communities are now also benefiting through the Goat Investment Programme which provides an opportunity for them to breed goats on their own.



Zenzele Dlomo improving rural economy

"The Goat Investment Programme started in 2017 and is open to everyone who has the desire to be a goat farmer. Our members make monthly contributions for a period of twelve months, during which time we breed goats on their behalf. By the end of the year-long contract we give them ten goats to start their own goat farms. This programme makes it easier and more affordable to buy goats. Although the government is doing its best to invest in agriculture and farming, funding is very scarce; it is important that we also create opportunities and empower one another so that the rural economy improves," explains Zenzele.

This passionate young goat farmer says he "eats, lives and dreams goat". Although Gayede Goat Project is located in a deep rural setting, it is managed very professionally. It has a well-structured ten-year rolling plan and has established partnerships with other goat farmers to share knowledge and also ensure proper governance.



Zenzele's flock of goats

MUT programme offering is getting better and better. Year 2019 has seen the first cohort of students graduating with the inaugural Postgraduate Diploma in Human Resources and Management.



The pioneers! Some of the first students to graduate with a Postgraduate Diploma in Human Resources and Management

As the saying goes,
"It takes a village to raise a child."

Graduates and willing friends of MUT are welcome to support the alumni donate-a-bench project or the alumni bursary fund.

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 Reference: 9263/60306 Alumni Relations

Contact: alumni@mut.ac.za / zama@mut.ac.za

Mission

Our mission is to provide advanced, technology-based programmes and services that are career and business-oriented in the broad fields of engineering, natural and management sciences for the upliftment of talented but mainly disadvantaged individuals. By so doing, the University shows its commitment to social redress.

It contributes to creating an equitable and prosperous Southern Africa in which individuals have the opportunity to achieve their full potential.

Vision

The vision of mangosuthu University of Technology (MUT) is to be a pre-eminent higher education institution of technology that fosters socio-economic advancement through the scholarships of teaching and learning, applied research, technology development and transfer and community engagement.

Produced by the Department of Marketing and Communications

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