



# SPRING GRADUATION 2019



**FACULTY of  
ENGINEERING and the BUILT ENVIRONMENT**

**DATE:** Wednesday, 4 September 2019 | **TIME:** 09:00

**VENUE:** Fred Crookes Sports Centre, Steve Biko Road, Durban



# SCHEDULE OF 2019 SPRING GRADUATION CEREMONIES DURBAN

04 to 05 September 2019  
Fred Crookes Sports Centre, Steve Biko Campus, Gate 5

## DURBAN

WEDNESDAY, 04 SEPTEMBER 2019	
<b>SESSION 1</b> 09:00	<b>FACULTY of ENGINEERING and the BUILT ENVIRONMENT</b> Architectural Technology; Chemical Engineering & Pulp and Paper; Construction Management and Quantity Surveying; Civil Engineering and Geomatics (DBN & PMB); Industrial Engineering; Town and Regional Planning.
<b>SESSION 2</b> 14:00	<b>FACULTY of ENGINEERING and the BUILT ENVIRONMENT</b> Electronic and Computer Engineering; Electrical (Power) Engineering; Mechanical Engineering
<b>SESSION 3</b> 18:00	<b>FACULTY of ACCOUNTING and INFORMATICS</b> Accounting; Information Technology; Information and Communication Technology; Cost and Management Accounting; Financial Information Systems; Internal Auditing; Office Management and Technology; Taxation; Corporate Administration; Master of Management Sciences in Administration and Information Management
THURSDAY, 05 SEPTEMBER 2019	
<b>SESSION 1</b> 09:00	<b>FACULTY of MANAGEMENT SCIENCES</b> <b>Honorary Graduand: Mr B P Vundla</b> Management; Operations Management; Quality Management; Human Resources Management; Hospitality Management; Tourism Management; Business Law; Ecotourism Management; Marketing; Retail Business Management; Public Relations Management
<b>SESSION 2</b> 14:00	<b>FACULTY of APPLIED SCIENCES</b> Biotechnology and Food Technology; Chemistry; Clothing and Textile Studies; Food and Nutrition; Consumer Sciences; Horticulture; Maritime Studies; Sport Studies  <b>FACULTY of ARTS and DESIGN</b> Drama, Education, Fashion, Fine Art, Graphic Design, Interior Design, Jewellery Design, Journalism, Language Practice, Photography, Translation and Interpreting Practice, Video Technology.  <b>FACULTY of HEALTH SCIENCES</b> Biomedical and Clinical Technology; Chiropractic; Community Health Studies; Dental Sciences; Emergency Medical Care and Rescue; Homoeopathy; Nursing; Somatology; Radiography; Homoeopathy; Medical Orthotics and Prosthetics  <b>FACULTY of MANAGEMENT SCIENCES</b> DPhil and MPhil Management Sciences
<b>SESSION 3</b> 17:30	<b>FACULTY of MANAGEMENT SCIENCES</b> Public Management, Higher Certificate: Public Administration



## MESSAGE FROM THE **CHANCELLOR** Ms Nonkululeko Nyembezi

Heartiest congratulations to the class of 2018.

Today you have achieved what has been so far the driving ambition in your life. It is a monumental achievement and you have earned the right to feel good about it. It is your time, so stop and take a moment to savour it. Give yourself a pat on the back and share the special moment with your family and friends who have supported you along the way.

The real value of a good education goes way beyond amassing knowledge. Over and above knowledge, what DUT has hopefully imparted to you is awareness of what is real and essential to be a good person. As you leave the safe space of a university campus, there will be many twists and turns you have to navigate. In doing so, don't give up on your values but be willing to adapt to life's ever changing circumstances.

March to your own drum. In this world of social media, comparing yourself to others has become an occupational hazard. Have the courage to choose your own path based on whatever your intuition commands you to do. You will not always be sure what is the right path to choose. But if you are true to yourself, that inner voice will eventually come to your rescue and indicate the right one for you, however tentatively. Follow your heart even if it takes you away from the well-worn path. Dream big and honour your dreams.

As important as this is, it is unlikely to be the most important moment in your life. Other challenges will come. So you have to keep learning thus dedicating yourself to life-long learning. This takes commitment and may lead you to places you can hardly conceive of today. Naturally there are bound to be failures along the way as you push ever higher. At those times, it would be good to recall Churchill's timeless words: "Success is not final; failure is not fatal; it is the courage to continue that counts." And while you're at it, take the time to learn from those failures – they are by far the greatest teachers.

As you graduate today and embark upon the next phase of your life, what I wish for you is that you find work that you love. For it is only by doing so that your creative juices get stimulated so you excel and produce great results. Don't lose faith if at first you don't find this; keep looking. And remember above all else that life happens at the point of movement, not thinking, worrying, imagining, planning, talking or whatever else. So take action.

All of us at DUT are enormously proud of you.





# UMYALEZO OVELA KUSHANSELA

Nkz. Nonkululeko Nyembezi

Izilokotho ezinhle ezibhekiswe eklasini lonyaka wezi-2018.

Namuhla senihlomule ngalokho ebenikusebenzela empilweni. Kuwumhlomulo omkhulu lo futhi eninelungelo lokuthi niziqhenye ngawo. Yithuba lenu leli, ngakho—ke yekani yonke into bese niyalithokozela. Zimbambatheni emahlombe ngokuziqhenya bese niwuthokozela lo mzuzu okhethekile nemindeni yenu kanye nabangani akade beniseka indlela yonke.

Ubuhle bemfundo eseqophelweni eliphezulu buhamba buze budlule ulwazi oluzuziwe. Ngaphezu kolwazi, i-DUT enethemba lokuthi inihlomulise ngalo, iphinde yanifundisa futhi ukuthi yiziphi izinto ezibalulekile ezinganenza nibe ngabantu abaqotho. Njengoba seniphuma kula magceke aphephile ale Nyuvesi, zizoba ziningi izinselelo namajika enizohamba kuwo. Uma nibhekana nalezo zinselelo futhi nijika lawo majika nize ningadikibali bese nilahla lokho okubalulekile kinina kodwa nizijwayelanise nezimo zempilo ezihlale ziguquguquka njalo.

Yenza lokho okholelwa kukho. Sekuyingozi kakhulu ukuziqhathanisa nabanye kulesi sikhathi sezinkundla zokuxhumana esiphila kuso. Yiba nesibindi sokuzikhethela eyakho indlela kuye ngokuthi unembeza wakho ukutshela ukuthi yenzani. Ngeke uze ube nesiqiniseko ngaso sonke isikhathi ukuthi indlela okumele uyikhethe iyona yiphi, kodwa uma uneqiniso kuwena uqobo, unembeza wakho yiwona oyokutakula ngokukuhlonzela okumele ukwenze.

Yenza lokho okusenhliziyweni yakho ngisho noma ngabe kuthiwa lokho kukuqhelisa kulokho okujwayelekile. Yiba namaphupho nezifiso ezinkulu empilweni bese wenza isiqiniseko sokuthi lawo maphupho uyawafezekisa.

Yize lo mcimbi ubalulekile, kepha lesi ngeke kube yisigaba esibaluleke ukuzedlula zonke empilweni yakho. Zisazovela nezinye izinselelo. Ngako—ke, kumele uhlale ufunda futhi uzinikele ekutheni uyohlale ufunda impilo yakho yonke. Lokhu kusho ukuthi kumele ube nokuzinikela nokuzikhandla futhi kungakuthatha kukubeke ezindaweni ongakaze ucabange ukuthi uyoke ufinyelele kuzo. Kuzokwenzeka kube khona izingqinamba endleleni ngesikhathi uzama ukhuphukela phezulu. Uma izikhathi ezinjalo zikufica, kuyoba kuhle ukuthi uzikhumbuze amazwi angasoze abuna ka-Churchill athi, “*Impumelelo kayinaso isiphetho, ukungaphumeleli akusho ukuphela kwempilo; kepha yisibindi sokuqhubeka esibaluleke kunakho konke.*” Uma uhlangabezana nalezo zimo ezinjalo, zinike isikhathi sokuthi ufunde kulawo maphutha—yiwona ayokuqinisa ukhakhayi.

Njengoba nithweswa iziqu namuhla futhi nidlulela esigabeni esilandelayo sempilo, enginifisela kona ukuthi nithole umsebenzi eniwuthandayo, ngoba yikona lokho okuzothuthukisa ubuhlakani benu nibe yizingweti niphinde nikhiqize imiphumela emihle. Ningalilahli ithemba uma lokhu kungenzeki ngokushesha, niqhubeke nokubheka. Nikhumbule futhi ukuthi ngaphezu kwakho konke lokhu, impilo iqhubeka uma kunomyakazo oya phambili, hhayi ngokucabanga nje kuphela, ngokuzikhathaza, ngokuzindla, ngokuhlela, nangokulibala ukukhuluma nje kuphela. Ngakho—ke, sukumani nizithathe!

Sonke e-DUT siyaziqhenya ngani.



# MESSAGE FROM THE VICE - CHANCELLOR AND PRINCIPAL

**Professor Thandwa Mthembu**

Please accept my heartiest congratulations on what is a milestone in your life, your university graduation day. I am extremely proud of you and your achievements. You are, indeed, one of a very small group of about 20% of your peers who have diplomas and degrees. You are the cream of the crop!

The degree/diploma that is being conferred on you today will certainly help to broaden your horizons, open new opportunities and position you to play a meaningful and positive role in shaping your future and that of your family. With higher education being a public good, too, the investment you and your family have made in your education will also make a significant contribution to your community, our region, our country and the entire world.

The world will be looking towards you, armed with your knowledge, skills, innovation and entrepreneurial flair, to build on the achievements of those who opened the way before you, so that you continue the journey to make South Africa a better place. You will have to actively play your part to improve our country's economic performance, to enhance our political environment, to nurture our social cohesion and to prevent the degeneration of our society that is being exacerbated by violence, crime and corruption. We place a lot of faith in you. We are confident that you will not disappoint us.

Your graduation today means more than just receiving a piece of paper that confirms your academic prowess. Many of you have had to grapple with severe personal setbacks and challenges over the course of your study. However, you have become trailblazers in your families, villages and townships. Keep striving to grow and prosper. And, always remember to do things you are entrusted with the right way, with dedication, diligence, honesty, integrity, and with excellence and accountability.

Never forget that it takes a lifetime to build your reputation and only a moment to destroy your credibility. So, always try and ensure that you do not disappoint yourself.

Your qualification will be inconsequential, unless your knowledge and skills are employed to solve the problems that are evident in our communities and particularly, for the most vulnerable members of our society. As a result, our measure of student success cannot be limited to throughput rates alone. Ultimately, it is the quality of our graduates, the knowledge and skills that you have earned that will demonstrate the utility of your qualification.

We urge you to think carefully about the legacy that you will bequeath to your children and to your grandchildren, and to the country at large. It is my fervent wish that your legacy must be one of hope and not despair. It should be one of great values and ethics, and not bigotry and hate. It should be a legacy of peace, not violence. It should be a legacy of renewal, innovation and entrepreneurship, and not degeneration. It should be a legacy of development and not of wanton destruction. Let your efforts build South Africa, let them grow the African continent and let them guide our world into a safe and prosperous future.

As we unleash you to the world with your new knowledge and skills, innovations and entrepreneurial flair, we trust that you will choose to live and lead a value-driven, principled and ethical life. Despite whatever personal challenges you may face, always stay on the righteous path. Most importantly, always remember to savour this moment and the many other exciting ones that lie ahead.

This is your day! Congratulations to you, your family, your friends and to your community. You have made us proud. Here's to your continued success and good fortune...



# UMYALEZO OVELA KUSEKELA-SHANSELA

**uSolvazi Thandwa Mthembu**

Ngivumeleni ngedlulise ukuhalalisa kwami okuvela ekujuleni kwenhliziyo kulesisigaba esenifike kuso esiwusuku lokwethweswa kwenu iziqu. Ngiyaziqhenya kakhulu ngani ngokuhlabana kwenu. Niyingcosana kakhulu engamaphesenti athi awabe ngama-20 yabaneziqhu phakathi kontanga yenu bephelele. Ngalokhu-ke, niyizingqwele phakathi kwabo!

Iziqu enizethweswa namuhla nakanjani ziyonisiza kuntwele ezansi, zininike amathuba amasha futhi zinimise ngomumo ekubambeni iqhaza elifanelekile ekwakheni ikusasa elingcono kini nasemindenini yenu. Njengoba imfundo ephakeme ifanele ibe nomvuzo nasemphakathini, lokho okuyizindleko eningene kuzo kanye nemindenini yenu nikhokhela lemfundo, kuyoba ngumnikelo obalulekile emphakathini wenu, isifunda senu, kuleli lethu lengabadi kanye nomhlaba jikelele.

Umhlaba wonke umagange njengokuba senihlonyisiwe ngolwazi, amakhono, nobuchwepheshe ukunibona nakhela phezu kwalokho okuchunyiswe yizingqalabutho zenu ukuze niqhubeke njalo nenze iNingizimu Afrika ibe yizwe elingcono. Kumele nikhuthalele ukubamba iqhaza nifukule umnotho wezwe lethu, nijiyise ezombusazwe, ninakekele ubunye kwezenhlalo nilwe nokufekela komphakathi wethu okubhejezelwa wudlame, ubugebengu kanye nenkohlakalo. Lonke ithemba lethu lisemagxalabeni enu. Sifunga siyagomela sethembele ekuthenini ngeke nize nisiphoxe.

Usuku lwenu lokwethweswa iziqu lusho okungaphezulu kokwamukela nje isiqeshana sephepha esiqinisekisa ulwazi eniluzuzile. Ngenkathi befunda, abanengi benu bedlule ekukhandlekeni belwa nezingqinamba kanye nezinsalelo ezagadla zephukela kubo. Nokho, seniphenduke izinkombandlela zamaqhawe emindenini, emiphakathini nasemalokishini enu. Zimiseleni ukukhula ngokuphumelela. Futhi, nikhumbule njalo ukwenza enikwethwesiwe nikwenze ngokufaneleyo, ngobulungiswa, ngokuzinikela, ngokukhuthala, ngokwethembeka, ngobuqotho, ngokucola nangokulungela ukuziphendulela ngenikwenzile. Ningakhohlwa nanini ukuthi kuthatha impilo yakho yonke ukuzakhela igama kodwa kuba ngumzuzwana nje ukulinukubeza noma ukulibhidliza. Ngakho-ke zamani futhi niqinisekise ukuthi ningaziphoxi nizidumalise ngokwenu.

Iziqu zenu ziyoba yize uma ulwazi lwenu namakhono kungasetshenziselwa ukuxazulula izinkinga ezithe chithi saka emiphakathini yakithi ikakhulukazi kulabo bethu abantekenteke manxa onke ekuphileni nasekuhlaleni kwabo. Ngenxa yalokho, isilinganiso sethu sokuphumelela kwabafundi singekalwe ngokukhiqiza kwethu iziqu kuphela. Seziphelele zonke izinto, okuyiqinisekisa imivuzo ngeziqu zenu, yiqophelo eliphezulu lobufundiswa benu, nolwazi namakhono eniwazuzile eniyowatshala avunwe yimiphakathi yenu.

Siyaninxenxa ukuthi nicabangise ngefa lamagugu eniyolishiya ezinganeni zenu, kubazukulu benu nasezweni lonke. Kuyisifiso sami esijulile ukuthi ifa eniyolishiya kube ngelokunika ithemba kungabi ngelokudangalisa umphakathi, usale ukhaxa imilomo ngani. Kumele libe ngelamagugu agxilile nokuziphatha ngobuqotho, hhayi elokucwasa kanye nenxondo. Kumele kube yifa lokuthula; hhayi lodlame. Kumele kube yifa lokuvuselela, ukuchumisa nokwakha amathuba emisebenzi; hhayi lokufekelisa. Kumele kube yifa lokuthuthukisa; hhayi elokucekela phansi, nihliphiza, niblidliza. Imizamo yenu makube ngeyokwakha iNingizimu Afrika, mayikhulise izwekazi lase-Afrika futhi mayiholele umhlaba jikelele ekusaseni eliphephile nelinempumelelo.

Njengoba sesininikela siniphonsela emhlabeni nolwazi lwenu olujulile kanye namakhono, ubuchwepheshe nemiqondo yokusungula nokuchumisa kanye nokwakha amathuba emisebenzi, sinethemba lokuthi nizokhetha ukuphila impilo eluswe ngamagugu, imigomo yempilo nobuqotho. Nakuba ningabhekana nezingwadla zezinsalelo eziyonibheka ngqo, hlalani njalo endleleni elungileyo, enobuqotho nobulungiswa. Okubaluleke kakhulu, nikhumbule njalo ukulazisa nizitike futhi ngaleli thuba lanamhlanje lokwetheswa kwenu iziqu kanye namanye amathuba athokozisayo asazofika.

Lusuku lwenu lolu! Halala kini, emindenini yenu, kubangane benu nasemiphakathini yenu. Siyaziqhenya ngani. Sinifisela impumelelo engenamkhawuko nenhlalahlala eyochumisa yonke imizamo yenu.





# MESSAGE FROM THE PRESIDENT OF CONVOCATION

**Mr Siyabonga Vezi**

Congratulations on your achievement. The last few years have been arduous with some interruptions along the way but you have finally succeeded in completing your qualification. Today, we celebrate you and this wonderful accomplishment. Well done! Remember to honour and thank those that have supported you through your academic journey. You join the ranks of a number of illustrious alumni – Gordon Murray, Mbali Gcabashe, Jeremy Maggs, Kass Naidoo and Alan Khan to name a few..

As your alma mater we are confident that we have equipped you with the skills that will make you a global game changer and make strides towards eradicating some of the social challenges that we as a country face. Unlock your potential and reap the rewards that hard work, dedication and sacrifice have to offer. But also remember to extend a helping hand to those who require assistance. Pay it forward as others have done for you. Whether it's a donor, your parents or through some sort of financial assistance, give back. Continue with the legacy of Ubuntu.

As an alumnus of this prestigious institution, you are now a member of the Convocation of the Durban University of Technology – a statutory body to which all alumni of an institution belong. Your interests are represented by three Convocation representatives on Council – which is the highest governing body of the institution. Amongst Convocation's chief priorities, is the transformation of the Durban University of Technology, and much progress has been made in this area.

Student funding is a key challenge faced by many students wanting to acquire a tertiary qualification. Government subsidies are only able to assist a fraction of students and therefore it is reliant upon universities to seek alternative sources of funding to assist students attain this goal. We, therefore, call on you, our alumni, to help contribute by making an investment in the life chances of our students. Help them to achieve their dreams as you have successfully

achieved yours. To make a donation to DUT go to [www.dutalumni.com](http://www.dutalumni.com) and click on "Ways to Give". Select one of the three payment options. It is that easy.

I humbly request that you make contact by continuously updating your details so that you maintain your lifelong link with DUT, your *Alma Mater*. We also urge you to follow us on Twitter: @DUTAlumni, like us on Facebook, "DUT Alumni" and on LinkedIn at "@dutalumni". The Advancement and Alumni Relations Office arranges a number of events both locally and nationally. Your support of these events will ensure that you are kept updated on developments at your *Alma Mater*. You will be informed of events via our DevMan email system as well as through social media. Keep a look out for them.

Wherever your journey takes you, we are confident that you will hold dear to you, your years spent at DUT and the fond memories you created here. For those that have come back to continue with their post-graduate qualifications, thank you for coming back home. Convocation joins the rest of the University community in wishing you well and we are confident that we have created leaders who are distinguished in thought and deed and who will lead by example.



# UMYALEZO OVELA KUMENGAMELI WE-CONVOCATION

**uMnumzane Siyabonga Vezi**

Halala, ngempumelelo yenu. Iminyaka embalwa edlule ibihamba iba nezihibe thizeni kodwa ekugcineni senikwazile ukuthi niziphothule iziqu zenu. Namuhla sizonihalalisela ngale mpumelelo yenu enhle kangaka. Nisebenzile! Nikhumbule ukuhlonipha futhi nibonge labo akade beneseka ngesikhathi nifunda. Senifinyelele esigabeni salabo nabo ababengabafundi balapha ekhaya njengani asebedume yonke indawo - okungo-Gordon Murray, u-Jeremy Maggs, u-Kass Naidoo no-Alan Khan ukubala nje abambalwa.

Njengenyuvesi sinokuzethemba ukuthi sinihlomise ngamakhono azonenza ukuthi nibe ngabaethizinguquko emhlabeni wonke jikelele futhi nibambe iqhaza ekusonjululweni kwezinye zezinselelo zomphakathi esibhekene nazo njengezwe. Vukani nizithathe bese nivuna izithelo zokusebenza kanzima, ngokuzikhandla, nangokuzinikela. Kodwa nikhumbule futhi ukwelulela isandla kulabo abadinga usizo. Nisiqhubele phambili lesi senzo esihle njengoba nabanye bekwenzile kini. Qhubekani nomkhankaso wokwenza Ubuntu.

Njengomfundi osephothulile kulesi sikhungo esihle kangaka, manje usuyilungu le Convocation ye-Durban University of Technology – isigungu sabo bonke abake bafunda kulesi sikhungo. Izimvo zenu zimelwa ngamalungu amathathu eMkhandlwini wesikhungo – okuyisona sigungu esiphezulu kunazo zonke esilawula isikhungo. Enye yezinto eziseqhlwini ze-Convocation wukuqinisekisa uguquko e-Durban university of Technology, futhi-ke kuningi osekwenziwe kuyo le ndima.

Uxhasomali lwabafundi yiyona nselelongqangi ebhekene nabafundi abaningi abafuna ukuthola iziqu zemfundo ephakeme. Uxhaso oluvela kuHulumeni lukwazi ukusiza ingxenyana ethile kuphela yabafundi bese ngaleyo ndlela ingcabhayi isala namanyuvesi ukuhlwaya eminye imithomboxhaso ukusiza abafundi ukufezekisa le mpokophelo. Ngakho-ke, siyaninxenxa, njengoba seniphothulile, ukuthi nifake isandla ngokunikela ekuthuthukiseni impilo yabafundi bethu. Balekeleleni nabo ukuthi bafezekise amaphupho abo njengoba awenu seniwafezekise ngempumelelo. Uma ufuna ukwenza umnikelo e-DUT ungasebenzisa isizindalwazi esithi -

[www.dutalumni.com](http://www.dutalumni.com), bese ucindezela inkinobho ebhalwe ukuthi “Ways to Give”. Lapho-ke usungazikhethela indlelakukhokha eyodwa kwezintathu onikwe zona. Kulula kanjalo nje.

Nginyanicele ngokuzithoba ukuthi nihlale njalo nixhumana ne-DUT, okuyiNyuvesi yenu, ngokuthi nidamane nivuselela imininingwane yenu yezokuxhumana. Siyanicelela futhi ukuthi nisilande kuthwitha: @DUTAlumni, nithande nekhasi lethu lika-Facebook 'DUT Alumni', kanye nakwi-Linkedin ekhasini elthi: “@dutalumni”. Ibhovisi lezokuxhumana i-Advancement and Alumni lihlale imicimbi eminingi ezingeni lesifundazwe nelikazwelonke. Ukweseka kwenu le micimbi kuzoqinisekisa ukuthi nihlale ninolwazi mayelana nezinto ezinhle ezenzeka eNyuvesi yenu. Nizokwaziswa ngezinto ezenzeka eNyuvesi ngokuthunyelelwa imiyalezo ngohlelo lweposinyazi lwethu olwaziwa ngokuthi i-DevMan kanjalo nasezinkundleni zokuxhumana. Nihlale niyilindele-ke.

Kuyo yonke indawo la impilo inibeka khona, sinethemba lokuthi ngeke nize niyikhohlwe iminyaka eniyichithe e-DUT kanye nemicabango yezikhathi ezimnandi enibe nazo lapha. Kulabo ababuyele ukuzoqhuba iziqukwengeza zabo, sithi kubo siyabonga ngokubuya ekhaya. I-Convocation ngokubambisana nomphakathi wonke wakule Nyuvesi inifisela okumhlophe kodwa futhi sinethemba lokuthi sakhe abaholi abayizingcithabuchopho ngisho nangezenzo futhi abazohola ngokuba yizibonelo ezinhle emphakathini.



# COUNCIL MEMBERS

## COUNCIL MEMBERS

Mr NZW Madinane

Chairperson of Council

Ms D Hlatshwayo

Vice-Chairperson of Council

## EXTERNAL COUNCIL MEMBERS

Mr SH Vezi

Convocation

Mr M Shange

Convocation

Mr T Shezi

Convocation

Mr N Chonco

Council Appointee

Mr Z Gumede

Council Appointee

Ms B Chiliza

Council Appointee

Prof L Molamu

Council Appointee

Ms B Ntombela

Council Appointee

Mr S Sibiya

Council Appointee

Mr B Singh

Council Appointee

Ms GG Twala

Council Appointee

Cllr.W Mapena

eThekweni Municipality

Dr N Makhanya

Minister of Higher Education

Ms D Hlatshwayo

Minister of Higher Education

Mr T Hlongwa

Minister of Higher Education

Ms B Masinga

Minister of Higher Education

Mr L Longwe

Minister of Higher Education

Mr L K T Mehta

ML Sultan Charitable and Education Trust

## INTERNAL COUNCIL MEMBERS

Prof TZ Mthembu

Vice-Chancellor and Principal

Prof NS Gwele

Deputy Vice- Chancellor: Teaching & Learning

Dr I Machi

Deputy Vice-Chancellor: People & Operations

Mr P Moodley

Academic Staff

Mr M Estrice

Institutional Forum

Mr L Khumalo

Professional & Administrative Staff

Mr S Godlimpi

Student Representative Council

Ms Z Ngwabe

Student Representative Council

Prof SE Obono

Senate

Prof N Sibiya

Senate

Mr S Rampursad

Support & Service Staff

## OFFICE BEARERS

Professor TZ Mthembu	Vice Chancellor & Principal	PhD (Wits); MSc (Vanderbilt); BSc Hons (UFH)
Professor NS Gwele	Deputy Vice- Chancellor: Teaching & Learning	PhD (UND); M Ed; MS (Columbia-Missouri)
Professor S Moyo	Deputy Vice-Chancellor: Research, Innovation & Engagement	PhD (UND); M TEM (UniMelb); MSc; BSc Hons (UND)
Dr IZ Machi	Deputy Vice-Chancellor: People & Operations	PhD (Wits); MSc; BSc Hon (UDW)
Dr TS Pillay	Registrar	D Tech (DUT); MPA; UHDE (UDW)
Professor O Olugbara	Executive Dean: Accounting & Informatics	PhD (UniZulu); MSc (UDW)
Professor S Singh	Executive Dean: Applied Sciences	PhD; MSc; BSc Hon (UDW)
Dr RA Smith	Executive Dean: Arts & Design	PhD (UKZN); MA (UN); BA Hons (Plymouth/F.C.A,UK)
Professor P Musonge	Acting Executive Dean: Engineering & the Built Environment	PhD (Imperial College, University of London), D.I.C., MCSE
Professor MN Sibiya	Executive Dean: Health Sciences	D Tech (DUT); M Tech (TN); B Cur Hons (UniZulu)
Professor VP Rawjee	Acting Executive Dean: Management Sciences	DPhil (NMMU); MA; BA Hons (UND); NHD (MLST)
Mr S Kharwa	Chief Risk Officer	M Com (UKZN); M Tech (TN); B Com Hons (Unisa) Professional Accountant (SA); AGA (SA)
Dr RT Thabede	Interim Director: Midlands	PhD (Virginia Tech); MA( Appalachian,USA)
Dr D Mohale	Director: Special Projects	D Litt et Phil (Unisa)
Mr MR Mthethwa	Interim Chief Financial Officer	M Com (UKZN); B Compt Hons; B Com Hons (Unisa); CA SA
Dr VL Mthethwa	Senior Director: Human Resources	PhD; MA ; BA Hons (UKZN)

# ORDER OF PROCEEDINGS

**The Academic Procession enters the Hall**

**The Vice-Chancellor and Principal Constitutes the Congregation**

**Welcome**

Mr A Khan

Senior Director

Division of Corporate Affairs

**Musical Interlude**

DUT Chorale

**Presentation of Graduands and Diplomandi**

Acting Executive Dean of the Faculty of Engineering and the Built Environment

Professor P Musonge

**Conferment of Degrees and Diplomas**

Professor T Z Mthembu

Vice-Chancellor and Principal

**Closing Remarks**

Professor P Musonge

Acting Executive Dean

Faculty of Engineering and the Built Environment

**National Anthem**

DUT Chorale

**The Vice-Chancellor and Principal dissolves the Congregation**

**The Academic Procession leaves the hall**

**Please note:-**

- (i) Cellphones are to be switched off for the duration of the ceremony
- (ii) When the Academic Procession enters the hall, the congregation is requested to stand
- (iii) Only officially authorized persons may take photographs of and record the ceremony
- (iv) As a courtesy, you are requested to remain for the full duration of the ceremony
- (v) When the congregation is invited to stand and join in the singing of the National Anthem, protocol requires that males remove their headgear and that there is no applauding at the end

## HEADS OF ACADEMIC DEPARTMENTS OF GRADUANDS

### FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Architecture	Mr L S du Plessis	M Arch (UKZN); SAIA; Pr Arch
Chemical Engineering	Dr Y M Isa	PhD; MEng (Moscow)
Civil Engineering and Geomatics	Mr G M Hoosen	M Tech (MLST)
Civil Engineering, Pietermaritzburg	Mr T W McKune	M Tech (TN); HFSAICE; Pr Tech Eng
Construction Management & Quantity Surveying	Mr F C Fester	M Tech (CM); Pr CPM; Pr CM
Electrical Power Engineering	Professor IE Davidson	PhD (UCT), MEng (Unilurin), BEng Hons (UKZN), Pr Eng.; SEMAC (BCIT, Canada); FIET; FSAIEE; SMIEEE; MNSE; MCIGRE; MBCSEA; MWCGCE
Electronic and Computer Engineering	Dr S Reddy	PhD (UCT), M Eng (UP), BSc Eng (UND), SMSAIEE, MIEEE
Industrial Engineering	Dr OA Olanrewaju	D Tech (TUT); MSc (Unilbadan)
Mechanical Engineering	Dr FM Mwangi	D Eng (DUT); M Tech (DUT) Pr Eng; CPA (K); MSAIMEchE
Town and Regional Planning	Ms G M Lincoln	MTRP (UND)

#### Degree of Master of ENGINEERING

BHENGU Phakamani Humphrey  
(Full Research)

#### Title of Dissertation:

An investigation on the impact of lime variations to the strength parameters of various soil samples with different pH ranges

**Supervisor:** Prof D Allopi

MSIBI Sanele Enough  
(Full Research)

#### Title of Dissertation:

Application of deep eutectic solvents (DES) to the denitrification of transportation fuels: Insights from experimental liquid-liquid phase equilibrium data

**Supervisor:** Dr S Ramsuroop  
**Co-Supervisor:** Dr K Tumba

#### Degree of Master of the Built Environment

MADIHLABA Goodness Lerato  
(Full Research)

#### Title of Dissertation:

Adoption of intelligent transport systems for sustainable transportation in secondary cities of South Africa:  
A Case of Port Shepstone

**Supervisor:** Dr G Musvoto

#### Degree of Bachelor of Technology in ARCHITECTURAL TECHNOLOGY

MADURAY Uriel Christopher  
MNCUBE Brian Sandile  
SINGH Jashiel Jude

#### Degree of Bachelor of Technology in ENGINEERING: CHEMICAL

BLY Sinentlahla  
MDLULI Samkelo Innocent

#### Degree of Bachelor of Technology in ENGINEERING: CIVIL Specialising in Construction Management

CELE	Lungisile Lucia
DLAMINI	Zwelihle Bonginkosi
GOUNDEN	Poovern
HLATSHWAYO	Sandile Xolani
HLATSHWAYO	Thokozani Phindani Sizwe
KHANYILE	Msikeleni Raymond
KHUMALO	Nokulunga Pretty
KHUMALO	Wiseman Zamani
KUBONI	Zendane
LABASE	Dumisani Michael
LUCHMAN	Ashal
MADUNA	Patience Phumelele
MAJIYA	Raphael Msebenzi
MAKHANYA	Thamsanqa Trevor
MDUNGE	Thandeka Lungile
METH	Monwabisi
MIYA	Ntuthuko
MKHIZE	Nokukhanya Rosemary
MKHUNGO	Bongani Hopewell
MTHEMBU	Mlungisi Joseph
MTHEMBU	Nkosinathi Muziwandile
MTHETHWA	Charlotte Siphindile
MTHETHWA	Dalingcebo Alec
NKOMO	Thabang Brian Trivors

NKOMONDE  
NTLOKO  
PAKISI  
POTELWA  
SAIB  
SHANGE  
TSHONA

Siphamandla  
Nomahlubi  
Vuyokazi Primrose  
Miliswa Linabantu  
Junaid  
Thulisile Bridgette  
Phumela Thelma

**Degree of Bachelor of Technology in  
ENGINEERING: CIVIL Specialising in Structural  
Engineering**

KARRANSINGH	Sidhant	
MTHEMBU	Simphiwe Bongumenzi	
*PILLAY	Yegan Jackson	CUM LAUDE
RAMLUKAN	Merrill	
SIBIYA	Feziwe Dalisu Zama	

**Degree of Bachelor of Technology in  
ENGINEERING: CIVIL Specialising in  
Transportation Engineering**

BHENGU	Njabulo Andile	
BHENGU	Siyabonga Emmanuel	
DLADLA	Prudence Sthokoziso	
HLONGWA	Nokulunga Zibuyile	
KHANYILE	Phakamani	
*MABIZELA	Nkosikhona Christian	CUM LAUDE
MAKHATHINI	Nomakhwezi Nokubonga	
MBATHA	Nonkululeko	
MOODLEY	Jerushan	
MPEPETO	Mluleki	
MTSHALI	Bonisiwe Prisca	
MTSHOMO	Bonisile	
NGCAMU	Zandile	
ZOKO	Fikile	

**Degree of Bachelor of Technology in  
ENGINEERING: CIVIL Specialising in Urban  
Engineering**

CELE	Mxolisi Henry	
DHLAMINI	Bongani Nqobile	
*GAYADEEN	Sanisha	CUM LAUDE
GQOBO	Liso	
HLATSHWAYO	Bonga Wandile	
MKHIZE	Philile Portia	
MTHETHWA	Wanele Nkazimulo	
NTSHANGASE	Thabani Perfect	
NZIMANDE	Mzwakhe Douglas	
REDDY	Kimeshni	CUM LAUDE
SHEZI	Mthobisi Protas	

**Degree of Bachelor of Technology in  
ENGINEERING: CIVIL Specialising in Water  
Engineering**

BUNSI	Averia
CHETTY	Andria
DLAMINI	Meluleki
DUMA	Ntobeko
GOUNDER	Fabian
GOVENDER	Renolan
GQOBO	Thando Bridgett
HLOBA	Elethu
KUBHEKA	Nokuthula Nonhlanhla
MASANGO	Simekahle Cyprian

MASONDO  
MAVUNDLA  
MBATHA  
MKHONZA  
MOODLEY  
NDABA  
NDLOVU  
NGCOBO  
NGIDI  
NJAPHA  
NZIMANDE  
SHANDU  
SHELEMBE  
SITHOLE  
\*THAVER

Samukelo Lawrence  
Senzo Zethembe  
Njabulo  
Ndimiso Brian  
Niven  
Nombali Wendy  
Stanley Sphamandla  
Nkanyiso Remequis  
Mduduzi Siyabonga  
Monwabisi Kenneth  
Ntombifuthi  
Silindile  
Mlungisi Mfanelo  
Thobile  
Prenolan

CUM LAUDE

**Degree of Bachelor of Technology in  
ENGINEERING: INDUSTRIAL**

BASHALA	Tshishiku Glodi Ben
DAMANE	Andile Kwanele
DLUNGWANE	Siboniso
GOVENDER	Cavell Alan
HLOPHE	Thembelihle Siphesihle
JUGHOO	Bhanu
KABADI	Mbayo Deborah
KABONGO	Mbilayi Teddy
MANQELE	Nkazimulo Praiseenough
MBELE	Nduduzo Hopewell
MBONAMBI	Sabelo Austin
MKHWANAZI	Melindah S'Negugu
MNGOMA	Nothando
MUTAKAYA	Nyashadzashe Xavier
NAIDOO	Avashin
NGOBESE	Welani Sicoco
NKUNA	Nkosiyazi Arthur
NTSHANGASE	Samukelo Njabulo
NZUZA	Nkanyiso Nduduzo
RADEBE	Minenhle Thabiso Mnqobi
SAMDUTH	Mereece
SITELA	Papamani
VIKA	Zimasa
VUTELA	Vuyelwa Felicia Masentle
ZUNGU	Leko Musa

**Degree of Bachelor of Technology in  
PULP AND PAPER TECHNOLOGY**

NAIDOO	Sugendharan Muthuvalloo
--------	-------------------------

**Degree of Bachelor of Technology in  
SURVEYING**

MKHIZE	Zamambo Joy
NAIDOO	Genvil
NKOMONYE	Sanm Andile
ZIKHALI	Velile Nomfundo

**Diploma in Engineering Technology in  
CIVIL ENGINEERING**

BUTHELEZI	Buhle Marilene
BUTHELEZI	Njabulo Pleasure
DLAMINI	Lindumusa
DLAMINI	Muhlephethe Vuyo
DUBE	Londeka Princess
GWALA	Smanga PraiseGod



ISMAIL	Talia
JOYI	Khanyisile
MADELA	Mntomuhle Sanele
MADONDA	Siyethemba Lethukuthula
MAHOMED	Sumnoon
MBEJE	Noluthando
MBONA	Nelisiwe Prisca
MBONA	Swelihle Anele
MDITSHANE	Lerato
MDLALOSE	Khanyisani Lucky
MHLONGO	Sduduzo
MMBO	Mfundo
MSIMANGO	Nothile Nosipho
MSOMI	Andile
MTHEMBU	Phumla
MWELASE	Vuyani Aubrey
MZILA	Nonzuzo
NDLOVU	Nomvuyo Happiness
NENE	Lwazi Nduduzo
NGQULUNGA	Andile
NKADIMENG	Makgope Oscar
NKOSI	Busisiwe Felicia
NKWANYANE	Khayelihle S'Bongumenzi
NOBELA	Antonet
NTUSI	Zanoxolo Nkululeko Psychology
NXUMALO	Dumisani Sbonelo
NXUMALO	Londeka
NZIMANDE	Phumelele Portia
PHETHA	Nelisiwe
RADEBE	Dumsani Nhlalanhle
ROSELT	John Hemry
SETI	Sivuyisiwe
SIMELANE	Londiwe Nkosingiphile
THUSI	Hlokomelani Paulos
TSHABALALA	Bomikazi
XIMBA	Mzomuhle Kwethemba
ZAMISA	Vuyiswa Bongekile
ZONDI	Mhlengi Dalisu
ZONDO	Sibahle Siyamthanda
ZUMA	Nkosenye Langelihle

#### **National Diploma in BUILDING**

MOKGOBU	Kgabo Aibie
NGCENGULA	Ziyanda
NSIBANDE	Nomathamsanqa
OMAR	Muhammad Rayhaan
PULING	Popo Zandiswa Bonisile Katiso
SHAIK	Muhammad Zakaria

#### **National Diploma in ENGINEERING: CHEMICAL**

CHETTY	Avril
DLUNGWANE	Nolwazi
GOVENDER	Keegan
ISMAIL	Wasim
KHAN	Ummeh Rumaan
MDUKISA	Mthuthuzeli
MKHIZE	Sithembile
NAIDOO	Darona
NAIDOO	Seshlin Lee
NAIDOO	Taleah Tiara

RAMABUTO  
SIMJEE

Keneuwe Michelle  
Aaliyah

#### **National Diploma in ENGINEERING: CIVIL**

ABDULLA	Muhammad Abdus Sammad
ABOOBAKER	Ismaeel
BHENGU	Njabulo Bright
BIYELA	Thabani Qiniso
BUSANA	Mlondi Sphesihle
BUTHELEZI	Ayanda Tsepo
CELE	Mthokozisi Welcome
CELE	Sibusiso Langelihle
CHABAARI	Muriithi
DLAMINI	Ayanda
DLAMINI	Mfundo
DLAMINI	Mkhululi Brian
DLAMINI	Nothando Bright
DLAMINI	Welcome Lungisani
DUBE	Chwepheshe Sinre Denzil
ERAMAN	Mekyle Paul
FUNEKA	Lindelani Blessing
GANESS	Sherwyn
GOBA	Senzeka Emphasize
GOVENDER	Andrea
GOVENDER	Daren
GOVENDER	Laven
GWALA	Sabelo Innocent
HADEBE	Mahlubandile
HARIRAM	Bradley
HLUNGWANI	Leonel Ntalo
HOosen	Noorain
KHUMALO	Mnqobi Michael
KUBHEKA	Nokulunga Xolile
KUBHEKA	Sifeziwe Nosidingo Ntombizamakhathide
KUBHEKA	Siyanda
KUNENE	Lindelwa Nontuthuko Nokubonga
KUNENE	Nonhlelo Precious
LUTHULI	Nhlanhla
MAFULEKA	S'Phokuhle Precious
MAGCABA	Samukelo Thobani
MAGOSO	Siphesihle Elton Fana
MAGWA	Lutho
MAHOMED	Haseera
MAHOMEDY	Ahmed
MALINGA	Phindile Princess
MANSA	Kinesh
MANYONI	Sinethemba Yvonne
MASINGA	Tevin Thubelihle
MATHONSI	Sandisiwe Fikisiwe
MATHY	Atuta Mwehu
MAYEZA	Zethembiso Peacemaker
MAZIBUKO	Ntuthuko Perseverance
MBAMBO	Minenhle Thobeka
MBAMBO	Theodoric Mfundo
MBANJWA	Lungisani Nkosinathi
MCHUNU	Sboniso
MDLALOSE	Saziso Velemseni Malibongwe
MDLULI	Lindelani
MEMELA	Brandon Thobani
MGABHI	Celumusa Sibusiso
MHLONGO	Thobile Patience
MITCHELL	Kyle

MKHIZE	Nkululeko
MKHIZE	Nomfundo Truelove
MNCWABE	Khwezi Sibaliwe
MNCWABE	Mlondi
MNISI	Sizakele Patience
MNYANDU	Owami Lifa
MOGAKI	Thomas
MPUNGOSE	Nhlahla
MSHENGU	Sanele Joshua
MZOLO	Mbali Mafungwase
NAIDOO	Jason
NARAIN	Preshan
NDHLOVU	Luyolo
NDLELA	Mbali Boniswa
NDLOVU	Brian Khayelihle Njabulo
NENE	Bongumenzi Thembenkosini
NENE	Thokozani
NGCOBO	Dumisile
NGCOBO	Mandisa Nkanyezi
NGCOBO	Nokukhanya Vuyiswa
NGCOBO	Philani
NGCOBO	Thembeke Wendy
NGOBESE	Langelihle Londeka
NGQULUNGA	Londeka Antonality
NGUBANE	Buhle Charles
NGUBO	Mfanelo Ngcebo Fortune
NJOKO	Simphiwe Caroline
NTETHA	Nonsikelelo Nomfundo
NTOMBELA	Ziphezinhle Bulelwa Thando
NTSELE	Samukelisiwe Sinothile
NZIMANDE	Senzosenkosi Maqhawe
PADAYACHEE	Kivania
PHAKATHI	Lungelo Innocent
PHIRI	Nonhlanhla Nomkhosi Potia
PILLAY	Gino
PILLAY	Vishnu Masulan
PREMRAJ	Deepika
QWABE	Siphehile Sibusiso
RADEBE	Sandile Lesley
SALAJEE	Abraar
SHABALALA	Thembelani Arnold
SIKHAKHANE	Minenhle Lovemore
SILANGWE	Yonela Siphokazi
STEADY	Brendon Adrian
THEMBELA	Sanele Minenhle
VAN WYK	James Anthony
VILAKAZI	Nomzamo Peaceful
VINCENT	Bevan Randall
WALSTROOM	Delvin Edgar
ZAKWE	Bonelaphi
ZIBULA	Mthobisi
ZIMU	Sandile Sydney
ZONDI	Philani Welcome
ZONDI	Sphelele
ZONDO	Osiphayo Siqiniseko Wandile
ZULU	Ntokozo Leon
ZULU	Thembelihle
ZUMA	Sphamandla
ZWANE	Thobekile Fortunate

### National Diploma in ENGINEERING: INDUSTRIAL

BHARUTH	Yakeel -Raj Ashwin
BHEBHULA	Busisiwe
BLOSE	Zethembe Hloniphani
BOTHA	Dewald
CHETTY	Anastacia
COKOTO	Masilakhe Ayabonga
DAYANAND	MISHKA
DLAMINI	Mbusi Ian
DLUNGWANE	Nqobile Stephen
GOUNDER	Ravani
HENDRY	Ross Dean
HLOMUKA	Ntandoyenkosi Khanyisile
INDERPAL	Nikitha
KABONGO	Matshitshi Chris
KAZADI	Steven
KHUMALO	Mandisa Winterrose
KWEYAMA	Siphelele Andrias
LANGA	Sandra Esperansa Silva
LINDA	Silindile Nonkululeko
LUVUNO	Siphehile Mbali
MAHAYE	Mphilonhle
MALINGA	Thabiso
MATHONSI	Sithabiso Mbulelo
MAVUNGO	Joao Bumba
MBATHA	Thubelihle Willheart
MTHEMBU	Fezile Wiseman
MUNSAMY	Tashlin Ernest
NEMAKONDE	Thanzielo Reinhardt
NGCOBO	Silindokuhle Lusanda
NTSHANGASE	Siduduzo
NXUMALO	Sabelo Goodnews
SHONGWE	Siyabonga
ZULU	Sibonelo

### National Diploma in PULP AND PAPER TECHNOLOGY

HOHO	Phindi Valencia
MBATHA	Bonginhlanhla Nicholars
MKHATHINI	Simphiwe Brilliant
MKHIZE	Mthokozisi Harrison
MNYANGO	Njabulo Gift
NKOSI	Mandla Sihle

### National Diploma in SURVEYING

HEATHMAN	Richard Stuart
ILUNGA	Ilunga Jean Luc
JOKO	Celani Kwanele

### National Diploma in TOWN AND REGIONAL PLANNING

MFENQA	Bulela Yongikamva
MLAMBO	Mxolisi Andile
MNEMBE	Mfundo

# DUT'S EBRAHIM ASMAL

## NAMED 2019 QUARTERLY REGIONAL SPOTLIGHT AWARD WINNER

In appreciation of his Information Technology teaching contributions and his excellent leadership skills, the Durban University of Technology's (DUT's) Senior IT lecturer Ebrahim Asmal, has been named a 2019 Quarterly Regional Spotlight Award winner by the prestigious Cisco Networking Academy.

The Cisco Networking Academy is an IT skills and career building programme for learning institutions and individuals worldwide. Self-paced courses are designed to take at your own pace, at any point in your career journey.

The Cisco Networking Academy's Regional Spotlight Award was created to recognize instructors, academics, and partners in each region whose recent efforts on behalf of Cisco Networking Academy have led to significant results. Asmal was selected from a list of regional nominees for this award in appreciation of his contributions.

Asmal is DUT's resident network expert and one of the most popular lecturers in Information Technology. He is a committed serial teacher who works at explaining complex evolving concepts in layman's terms.

Speaking on his achievement, Ebrahim Asmal said: "To place DUT as a market leader in the field of IoT and preparing learners for 4IR (Fourth Industrial Revolution), a number of initiatives have been started like the setting up of a fully specked IoT lab, Schools IoT Bootcamp, Raspberry Pi project for teachers, to name but a few, to achieve this."

Omar Shaban, Director, Operations and Services at the Cisco Networking Academy, said the award recognises the valuable contributions of academies such as DUT and the impact it has on the students of Cisco Networking Academy and the programme overall.

"Your efforts at DUT have created tremendous opportunities in Africa, efforts and support leading to the IoT Expansion and IoT Community Outreach, and Outstanding leadership and going above and beyond expectations. We understand that the success of

Networking Academy depends on our partnership with academies such as yours, and your accomplishments are essential to our shared goal to build a bridge to the possible," he said.

Pictured: Senior IT lecturer Ebrahim Asmal.

Waheeda Peters





# STUDENTS LED LEVEL SIX PROJECT


## SHOWCASED AT DESIGN INDABA



Thabiso Joyisa is determined to see the realisation of Level Six project – a student led initiative that he showcased during the prestigious Design Indaba Festival earlier this year.

The Design Indaba Festival is an annual celebration of design and creativity, showcasing the hottest and most relevant talents across the creative sectors. Conference attendees are privy to the absolute vanguard of the industry, experiencing the work, ideas, thought leadership and design thinking that permeates a cross-section of current creativity.

“I was selected as the Emerging Creatives Class of 2019, which was an opportunity for me to be among world's best designers and creatives. My participation was to exhibit my work and ideas that I was selected for, which was a project called Level Six that I started back in 2015 when I was doing my second year at the Durban University of Technology (DUT). My participation in South Africa's and international prestigious platform was a dream for me to share my ideas with the world,” said Joyisa.



The DUT Architectural Technology alumnus said he was inspired and empowered by the exposure and valuable knowledge that he acquired through his participation in the Design Indaba Festival. “I have always wanted to be part of these creative, explorative, engaging stories that push boundaries of innovation, with the attempt to make the world better through design. Besides the architectural part of Design Indaba, it is also a platform of multidisciplinary process, which has been close to my heart because design is complex but centred around essential core fundamentals which is nature and humans,” he stressed.

Joyisa said the Level Six project is an Architectural student movement aimed at transforming the current academic and social space within our Institutional surroundings. He added that this project is synergistic with the Department of Architecture's Long-term vision in addressing the social problems and lack of collaboration in the Department, particularly between the students in the different years and across different disciplines.

“Our vision is to build a new Floor on the existing S block at DUT connected to the University's DNA strand of student centeredness and the Strategic Plan's Strategic Focus Area, which is to improve facilities and infrastructure. We believe that this is an innovative idea, and with the right sponsorship it can improve the students experience and offer more opportunities and resources to create a conducive environment for the broader DUT community,” he said.

He added that even though this project is still at the preliminary stage, they are encouraged by the support they are getting from DUT management. “We are pleased to know that our vision was considered by the Deputy Vice-Chancellor of People and Operations, Dr Isaac Machi. We are pleased that our project was approved and included in the master plan of the institution. We also want to acknowledge Dr David Mohale, he was very helpful at the early stages of the project, to get us where we are,” he added.

He also added that they are working with the University's Advancement and Alumni Relations department to consolidate fundraising efforts for this project.

Pictured: An artistic impression of the proposed Level Six project that was showcased at Design Indaba Festival earlier this year.

Nduduzo Ndlovu



# HIGH-TECH BOOST FOR DUT WATER RESEARCH

South Africa may have narrowly averted Day Zero in Cape Town, but the near-disaster is a wake-up call that an adequate supply of clean water to meet the needs of our developing nation is no longer a given. We cannot afford to be complacent about the ever-increasing threats worldwide to water reserves, both in terms of quantity and quality.

As the effects of climate change intertwine with rapid urbanisation to exacerbate development challenges, research in water quality and maintaining excellence and skills in this field have arguably never been more crucial for the sustainability of future societies.

A leading light in this area has been the Institute for Water and Wastewater Technology (IWWT) at the Durban University of Technology (DUT). Adopting a multi-disciplinary approach with the combination of biotechnology, chemistry, environmental health and various engineering disciplines, the IWWT has been at the forefront of research and skills advancement in water and energy technology developments. In a further impetus to its game-changing work, the institute will be housed in a new state-of-the-art facility at DUT. Officially launched at the Steve Biko Campus on 18 July 2019, the new four-storey building is the culmination of many years of dedicated research and collaborations with local and international partners. It will house 14 laboratories, and several other high-end features.

The dedicated laboratories are equipped with sophisticated instrumentation (including gas chromatographs, an elemental analyser, ion chromatograph, flow cytometer, atomic absorption spectrometer, droplet digital PCR and sanger sequencer) supported by a UPS and a backup generator. A 100 square metre greenhouse containing 4 x 3 000L raceway ponds for algae experimentation features on the rooftop. Two floors contain offices, a seminar room, a boardroom and a 49-seater Postgraduate student seating facility.

The facility, said Vice-Chancellor and Principal Professor Thandwa Mthembu at the launch, was evidence of DUT's desire to increase its innovation and research capacity. "We want to become the first port of call in the region on matters of innovation and entrepreneurship, and certainly on matters of water and wastewater, not only in the region but in the world," he said. The facility will also be open to the public, said Deputy Vice-Chancellor: Research, Innovation and Engagement, Professor Sibusiso Moyo. "It will not only provide training to our students and staff, but it will also provide specialised services in collaboration with our partners that goes beyond testing the quality of water we drink. The IWWT will also provide evidence-based research

to inform interventions and to develop appropriate technologies to address the needs of society," she said.

At the helm of the high-tech facility is Professor Faizal Bux, Head of the IWWT and a leading researcher on wastewater treatment technology, algal biotechnology and environmental health. Professor Bux, the National Research Foundation SARCHI (South African Research Chair Initiative) Chair from 2018, has supervised 64 Masters and Doctoral students, hosted 23 Post-Doctorate Fellows and received numerous awards. Bux received the 2018 National Research Foundation's "Champion of Research Capacity Development and Transformation at South African Higher Education Institutions" Award and the 2017 Water Research Commission Knowledge Tree Award. He is also National Coordinator and Chair of International Thematic Group (ITG): Water Resource and Pollution Research of the BRICS Networks University. CEO of the National Research Foundation. Dr Molapo Qhobela, announced at the launch, that following a rigorous review of the SARCHI, a panel has unanimously agreed that the IWWT at DUT will be awarded another cycle of five years as SARCHI Chair. "This is testimony to the quality of research that has been undertaken in this University.

We need to debunk the myth that only certain institutions can produce cutting-edge research," he added. Over the past five years IWWT has published in excess of 126 journal articles and 83 conference presentations, nationally and internationally.

## OUR WORK:

### Consultation Services

Analytical support for research projects conducted by industry, government entities and other research labs, including heavy metals analysis, nutrient analysis, emerging pollutants, light and fluorescence microscopy, solids concentration, total organic and inorganic carbon and nitrogen, biogas analysis, microbiological quality testing (faecal coliforms and Escherichia coli counts) and identification of pathogenic organisms in water and wastewater samples.

### Wastewater Treatment Technology

IWWT has undertaken research in the area of wastewater treatment technology for more than 25 years. In the past six years, this has included a National Research Foundation SARCHI Chair.



Cutting the ribbon with Professor F Bux (Director of the Institute for Water and Wastewater Technology), Professor T Z Mthembu (Vice-Chancellor and Principal of DUT), Professor S Moyo (Deputy Vice-Chancellor: Research, Innovation and Engagement of DUT), Dr M Qhobela (Chief Executive Officer: National Research Foundation).



The Molecular Biology Laboratory at IWWT.



Institute for Water and Wastewater Technology.

### **Anammox Technology**

The anaerobic ammonium oxidation (anammox) is an emerging biological process for wastewater treatment. This has great potential in the current world's scenario of energy crisis as it requires 50% less energy compared to the conventional process. This process requires further optimisation to emerge as an efficient and stable process to replace the existing technologies.

### **Antibiotic Resistance**

Research on the prevalence and fate of antibiotics and possible derivatives in sewage treatments and the impact on the receiving environment.

### **Environmental Health**

The institute has embarked on numerous projects using an integrated Water Resource Management approach aimed at developing Catchment-based Risk Assessments of water and land use management.

### **Algal Biotechnology Research**

The algal biotechnology research group focuses using algal technology to sustainably address environmental challenges, wastewater beneficiation and generation of high-value products.

### **Microalgae and Wastewater Treatment**

An important area of research at IWWT involves the development of algae-based technologies for the resource, recovery and remediation of domestic, industrial and agro-industrial waste streams.

### **Aquaculture**

Aquaculture is one of the fastest growing agriculture industries in the world. Commonly produced aquaculture feed does not always meet the full dietary requirements of the fish. Algae represent natural food sources and can be successfully used as a protein source in fish feed to enhance both the morphological characteristics and biochemical composition. Preliminary research has shown promising results.





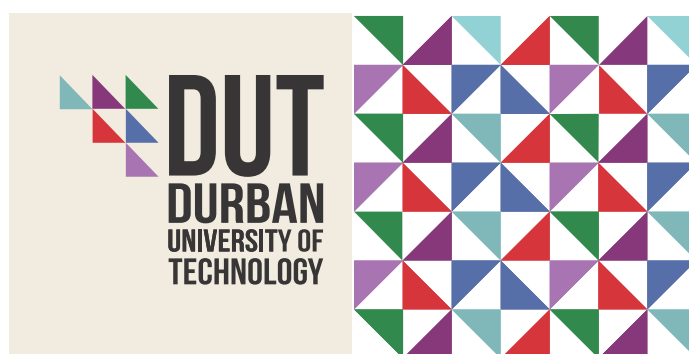
## NATIONAL ANTHEM

Nkosi sikelel' iAfrika  
Maluphakanyisw' uphondo lwayo,  
Yizwa imithandazo yethu,  
Nkosi sikelela, thina lusapho lwayo.

Morena boloka Setjhaba sa heso,  
O fedise dintwa le matshwenyeho,  
O se boloke, O se boloke setjhaba sa heso,  
Setjhaba sa South Afrika - South Afrika.

Uit die blou van onse hemel,  
Uit die diepte van ons see,  
Oor ons ewige gebergtes,  
Waar die kranse antwoord gee,

Sounds the call to come together,  
And united we shall stand,  
Let us live and strive for freedom,  
In South Africa our land.



# CONGRATULATIONS SIYAKUHALALISA

SPRING GRADUATION 2019