DUT DUT VIRTUAL SPRING GRADUATION 2020

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MONDAY 30 NOVEMBER 2020 12:00 pm





Order of Proceedings

Faculty of Engineering and the Built Environment

Opening Remarks

Mr Z Ngubane Director: Advancement and Alumni Relations

Constitution of the Congregation and Official Welcome

Ms N Nyembezi Chancellor

Presentation of Graduands

Professor B Twala Executive Dean: Faculty of Engineering and the Built Environment

Conferment of Degrees and Diplomas

Ms N Nyembezi Chancellor

Congratulatory Message and Vote of Thanks

Professor TZ Mthembu Vice-Chancellor and Principal

National Anthem

Durban University of Technology Chorale

Dissolution of the Congregation

Ms N Nyembezi Chancellor



MESSAGE FROM THE CHANCELLOR Ms Nonkululeko Nyembezi

Heartiest congratulations to the class of 2019/2020.

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-2019/ 2020.

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 Zizwe 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

uSolwazi Thandwa Zizwe 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 yabaneziqu 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 nemindeni 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, abaningi benu bedlule ekukhandlekeni belwa nezingqinamba kanye nezinselelo 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, okuyoqinisekisa imivuzo ngeziqu zenu, yiqophelo eliphezulu lobufundiswa benu, nolwazi namakhono eniwazuzile eniyowatshala avunwe yimiphakathi yenu.

Siyaninxenxa ukuthi nicabangisise ngefa lamagugu eniyolishiya ezinganeni zenu, kubazukulu benu nasezweni lonke. Kuyisifiso sami esijulile ukuthi ifa eniyolishiya kube ngelokunika ithemba kungabi ngelokudangalisa umphakathi, usale ukhexe imilomo ngani. Kumele libe ngelamagugu agxilile nokuziphatha ngobuqotho, hhayi elokucwasa kanye nenzondo. 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 zezinselelo 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 nenhlanhla eyochumisa yonke imizamo yenu.



MESSAGE FROM THE PRESIDENT OF CONVOCATION

Mr Siyabonga Vezi

Congratulations on your hard earned achievement!!

One's graduation is a time of celebration. A victory to be shared with family and friends. Sadly, Covid-19 has disrupted a number of our plans and operations, including the allimportant Spring graduation ceremonies. This is a situation nobody could have foreseen. Globally, we are undergoing immense adjustments. However, Covid-19 cannot take away from you, the immense sense of accomplishment and fulfilment of achieving your goals, for some under very trying circumstances. We applaud and commend your hard work and sacrifice that has culminated in you securing a place to being a productive, contributing member of society.

Remain positive. Remain steadfast in your goals. I am confident that the education and life skills acquired at DUT will hold you in good stead as you journey forward and carve out a successful career path. You have the power to shine brightly amidst challenging circumstances, including the likes of this pandemic. So go forth and conquer by being a beacon of hope and positive change in your communities. South Africa needs individuals like you to provide solutions to our societal challenges.

Your alma mater, DUT, has answered the call to provide assistance to the most vulnerable in the DUT community by establishing the Covid-19 Solidarity Fund: Committed, Compassionate. These funds will be utilized for care and support for those in the DUT community whose lives have been severely impacted by Covid-19. I encourage you to support this fund by pledging towards the DUT Covid-19 Solidarity Fund. Let's do the best we can, no matter how little it is. Collectively, it will make a difference. Together, we shall overcome the devastating effects of the virus. To donate go to the DUT website (www.dut.ac.za), click on DUT Solidarity Fund and follow the prompts.

The virus has forced us to reassess our priorities. Our health and those of our loved ones are of paramount importance. So I would encourage you to continue practicing social distancing, washing your hands thoroughly for at least 20 seconds and always put on a mask when you step out.

Current challenges should not destroy vision, instead they must empower, drive each one to be creative and encouraged to find solutions.

Stay safe. Stay blessed.

UMYALEZO OVELA KUMENGAMELI WE-CONVOCATION

uMnumzane Siyabonga Vezi

Halala ngomvuzo wokuzikhandla kwenu!

Ukwethweswa komuntu iziqu kusuke kuyisikhathi sokubungaza. Kuyimpumelelo okumele umuntu ayijabulele nomndeni kanye nabangani. Okubuhlungu yikho-ke ukuthi igciwane elaziwa nge-Covid-19 seliphazamise zonke izinhlelo zethu kanye nokusebenza, okubandakanya nemicimbi ebalulekile yokwethwesa abafundi iziqu evamise ukuba seNtwasahlobo. Okubuhlungu yikho-ke ukuthi igciwane elaziwa nge-Covid-19 seliphazamise zonke izinhlelo zethu kanye nokusebenza, okubandakanya nemicimbi ebalulekile yokwethwesa abafundi iziqu evamise ukuba seNkwindla. Lesi yisimo okungekho noyedwa obengakwazi ukusiqagula singakenzeki. Umhlaba wonke ungaphansi kwezinguquko ezithile.Yize kunjalo, leli gciwane i-Covid-19 ngeke silivumele ukuba linephuce umuzwa onzulu wokufinyelela nokufezekisa amaphupho enu kwabanye benu ngaphansi kwezimo ezinzima. Sikushayela ihlombe futhi siyakuncoma ukusebenza ngokuzikhandla nokuzinikela kwenu osekunibeke endaweni yokuthi nibe amalungu omphakathi akwazi ukwenza umsebenzi omningi, nonamagalelo amahle.

Hlalani ethembeni. Nigxile emaphupheni enu. Ngineqholo futhi anginanazi ukusho ukuthi imfundo kanye nempilo khono eniyifunde e-DUT kuzoba usizo njengoba nisaqhuba uhambo oluyaphambili nendlela enizoyithatha yokuqhubekela phambili emikhakheni yenu yemisebenzi. Ninawo amandla okuphumelela ezingqinambeni eningahlangabezana nazo, nesingabala kuzo leli gciwane i-Covid-19. Qhubekelani phambili ninqobe ngokuba inhlansi yethemba noshintsho olwakhayo emiphikathini eniphila kuyo. INingizimu Afrikha idinga abantu abanjengani ekunikezeleni izixazululo ezingqinambeni ezikhungethe imiphakathi yethu.

Inyuvesi ebenifunda kuyo, i-DUT isiphendulile ekhweleni lokunikezela ngosizo kulabo ababuthaka nabangavikelekile emphakathini wesikhungo i-DUT ngokuthi isungule iskhwama sesibonelelo esibizwa nge-DUT Solidarity Fund: Sizinikele, Sikhombisa uzwelo nokunakekela. Le mali izosetshenziselwa ukunakekela iphinde ixhase labo abathe impilo zabo zaphazamiseka ngenxa ye-Covid-19 emphakathini wesikhungo i-DUT. Ngiyanigqugquzela ke ukuba nixhase lesi sikhwama ngokuphosa esivivaneni esiyi DUT Covid-19 Solidarity Fund. Masenze konke okusemandleni ethu, ngisho ngabe kuncane kangakanani. Ngokubambisana sisonke singawenza umehluko. Sisonke sizoyinqoba imiphumela enomonakalo omkhulu edalwe yileli gciwane.

Ukunikela ngofisa ukukufaka ungaya kwiwebhusayithi yase-DUT (www.dut.ac.za), ungene kwi-DUT Solidarity Fund ulandele imiyalelo.

Leli gciwane lisiphoqe ukuba sihlole kabusha izinto ezimqoka. Impilo yethu kanye neyalabo abathandiweyo bethu yikhona okusemqoka kakhulu. Ngakho-ke, ngithanda ukugqugquzela ukuthi niqhubeke nokuqhelelana emphakathini, nigezisise izandla zenu okungenani imizuzwana engu-20 bese nihlezi nifake izamfonya uma niphumela ngaphandle.

Izingqinamba esibhekene nazo kulesi sikhathi mazingashabalalisi amaphupho enu, kunalokho mazinihlomise, nenze omunye ngamunye ukuba aqhamuke nomqondo ongajwayelekile futhi nikhuthazeke ekutholeni izixazululo.

Zigcineni niphephile. Nihlale nibusisekile.

DUT COUNCIL

COUNCIL MEMBERS

Mr N Z W Madinane	Chairperson of Council
Ms D Hlatshwayo	Vice-Chairperson of Council

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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	eThekwini Municipality
Dr N Makhanya	Ministerial Appointee
Ms D Hlatshwayo	Ministerial Appointee
Mr T Hlongwa	Ministerial Appointee
Ms B Masinga	Ministerial Appointee
Mr L Longwe	Ministerial Appointee
Mr L K T Mehta	ML Sultan Charitable and Education Trust

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Dr I Z Machi	Deputy Vice-Chancellor: People and Operations
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Mr M Estrice	Institutional Forum
Mr L Khumalo	Professional and Administrative Staff
Mr N Sangweni	Student Representative Council
Mr A Xayiya	Student Representative Council
Prof V Rawjee	Senate
Prof F Netswera	Senate
Mr S Rampursad	Support and Service Staff

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EXECUTIVE AND SEN Professor T Z Mthembu	IOR MANAGEMENT Vice-Chancellor and Principal	PhD (Wits); MSc (Vanderbilt); BSc Hons (UFH)
Professor M N Sibiya	Deputy Vice-Chancellor: Teaching and Learning	D Tech (DUT); M Tech (TN); BCur Hons (UniZulu)
Dr I Z Machi	Deputy Vice-Chancellor: People and Operations	PhD (Wits); MSc (UKZN)
Professor S Moyo	Deputy Vice-Chancellor: Research, Innovation and Engagement	PhD (UND); M TEM (UniMelb); MSc (UND)
Dr T S Pillay	Registrar	D Tech (DUT); MPA (UDW)
Professor O Olugbara	Executive Dean: Accounting and Informatics	PhD (UniZulu); MSc (Unilorin)
Professor S Singh	Executive Dean: Applied Sciences	PhD (UDW)
Dr R A Smith	Executive Dean: Arts and Design	PhD (UKZN); MA (UND); BA Hons (Plymouth)
Professor B Twala	Executive Dean: Engineering and the Built Environment	PhD (OU); MSc (Southampton); BA (UNISWA)
Professor A H A Ross	Interim Executive Dean: Health Sciences	D Tech (DUT); M Tech (TN); PG Dip (SU); B Mus (UCT)
Professor F G Netswera	Executive Dean: Management Sciences	DPhil; (SU); PGDip (Buckinghamshire Chilterns); NDP (TSA); BA Hons (UWC); BA (UNIVEN)
Mrs N F Dhumazi	Chief Financial Officer	M Com (UP); PGDip; (UNISA); B Com (UNIVEN) CA (SA)
Dr Q PT Mtshali	Chief Information Officer	PhD (NSU); BSc (SUNY)
Mr S Nyangintsimbi	Chief Risk Officer	MPhil (UP); MBL (UNISA); B Com (WSU)
Dr J M Molete	Director: Midlands Campuses	PhD (PSU); MBA (UCT); MSc (HU); BSc Hons (Wits)
Dr D Mohale	Director: Special Projects	DLitt et Phil (UNISA); MM (Wits); BA (CUT)
Dr V L Mthethwa	Senior Director: Human Resources	PhD (UKZN)

HEADS OF DEPARTMENTS

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

A	Mall C du Dlassia	MAush (LIKZNI), SALA, Dr. Aush
Architecture	Mr L S du Plessis	MArch (UKZN); SAIA; Pr Arch
Chemical Engineering	Dr Y M Isa	PhD; MEng (Moscow)
Civil Engineering and Geomatics	Mr G M Hoosen	MTech (MLST)
Civil Engineering, Pietermaritzburg	Mr S Hay	MTech (DUT)
Construction Management and Quantity Surveying	Dr A O Aiyetan	MTech (CM); Pr CPM; Pr CM
Electrical Power Engineering	Prof I E Davidson	PhD (UCT); MEng (Unilorin); 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 O A Olanrewaju	DTech (TUT); MSc (Unilbadan)
Mechanical Engineering	Dr F M Mwangi	DTech (DUT); MTech (DUT) Pr Eng; CPA (K); MSAIMechE
Town and Regional Planning	Dr G M Lincoln	PhD (DUT); MTRP (UND)

Faculty of Engineering and the Built Environment

Degree of Doctor of ENGINEERING

RANE

Title of Thesis

Structural, Mechanical and Morphological properties of self-assembled poly (Lactic Acid) composites

Ajay Vasudeo

Summary

Polymer nanocomposite materials systems are widely used for a variety of engineering applications and as such are constantly subjected to numerous scientific engineering studies. Improved mechanical properties mainly due to the nano-particle inclusions are amongst the most frequently desired feature of the new material system. Equally the control of the tradeoff between stiffness and toughness is almost always a requirement. The two principal ways to achieve these goals include the development of completely new polymers or the modification of the existing ones. Different types, shapes and sizes of fillers enables one to alter the properties of the emerging polymer composites. In this study, poly (lactic acid), spherical carbon black, multiwalled carbon nanotubes and cellulose nanofibers were used to fabricate poly (lactic acid) and hybrid filler poly (lactic acid) composites using the oligomeric dispersion technique. Structural properties of the composites were analysed using ATR-FTIR Spectroscopy. UV-Visible Spectroscopy was done to analyse interphase and dispersion characteristics. Mechanical properties of poly (lactic acid) and hybrid poly (lactic acid) composites were determined using a variety of mechanical tests. For nanoparticle dispersion morphological studies were performed using TEM and AFM. An in-depth analysis for change in mechanical properties was reported with comparisons to structural and morphological analysis. The experimental results compared well with theoretical predictions. The study was successful in fabricating poly (lactic acid) composites with balance of stiffness and toughness. Five peer reviewed journal articles and two book chapters were published. Additionally the results of the study were well received at various at national and international conferences.

Supervisor	
Co-Supervisors	

Prof K Kanny Prof S Thomas Dr TP Mohan

Degree of Master of the BUILT ENVIRONMENT

HLOPHE Edith Nombuso (Full Research)

Title of Dissertation

Provision of private student accommodation within suburban residential neighborhoods and the impact on inclusive neighborhood land use management. A case study of Scottsville, Pietermaritzburg, Kwa-Zulu, Natal

Supervisor Dr G Musvoto

Degree of Master of ENGINEERING

ADEDEJI Jeremiah Adebisi (Full Research)

Title of Dissertation

Production of biomethane from industrial wastewater and sewage sludge using anaerobic co-digestion

Supervisor Dr M Chetty IGHODARO Osagie (Full Research)

Title of Dissertation

A study of Biogas generation from poultry litter and impurity removal

Supervisor	ProfIJLazarus
Co-Supervisor	Dr G K Reddy

MKHIZE Phumulani Lucky (Full Research)

Title of Dissertation

Impact of fuel sources on flue gas emissions, and abatement control technologies in Ethekwini Municipality chemical industries

Supervisor ProfSLKiambi

(1)

MOHAN Jerrin Varkey Zachariah

(Full Research)

Title of Dissertation

Comparative analysis, design and optimization of a 48 channel DWDM System using various design parameters

Supervisor Dr O Sokoya

MUTSVENE Boldwin (Full Research)

Title of Dissertation

Enhanced bio hydrogen production from carbohydraterich wastewater through anaerobic fermentation

Supervisor	Dr M Chetty
Co-Supervisors	Prof SK Pillai
·	Prof F Bux

NAIDOO Sherese (Full Research)

Title of Dissertation

Optimisation of rubber selection for the automotive filtration industry

Dr M Chetty Supervisor

RAMDEEN Prajan (Full Research)

Title of Dissertation

The effect of process variation on pristine carbon nanotube particle dispersion within glass fibrereinforced epoxy polymer composites and its resultant mechanical characteristics

Supervisor Co-Supervisors	Prof K Kanny Dr TP Mohan Dr OA Olanrewaju	
*SHEZI (Full Research)	Manqoba	CUM LAUDE

Title of Dissertation

A statistical evaluation of the performance of dynamic models for absorption columns

Supervisor	Prof P Musonge
Co-Supervisor	Prof S Kiambi
SOBETWA	Mila

(Full Research)

Title of Dissertation

Measurement analysis of indoor parameters for an indoor wireless propagation

Supervisor Dr O Sokoya **TSHIKOMBA** (Full Research)

Title of Dissertation

Technical analysis and mitigation of electricity theft for domestic and commercial end users

Salome Busisiwe

Supervisor	Prof IE Davidson
Co-Supervisor	Dr E Ojo

Degree of Bachelor of the Built Environment in **URBAN AND REGIONAL PLANNING**

Kwanele KHULUSE LUTHULI Phumla Snovuvo

Degree of Bachelor of Technology in **CONSTRUCTION MANAGEMENT**

DHANSEIM	Sivash
GONTSANA	Ntsikayethu
KHANYILE	Nompumelelo Wendy
MAGWENYANA	Princess Nomusa
MBELE	Siyanda Blessing
SANDALAMO	Zola Princess
SHANDU	Mxolisi Goodman

Degree of Bachelor of Technology in ENGINEERING: CHEMICAL MKHONTO Bhekuvise

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

CELE

DUBE

KHAN

MYEN

MYEZA

Nkos`Khona Sandile DA SILVA Iulian Claudio Nokuthula Sibongile Nontsikelelo DLAMIN Siyaduduzwa Sibongumenzi HADEBE Sibongeleni Nhlakanipho Brian Bryce HARRADINE Njabulo Mfanafuthi **HLABISA HLAMBISA** Mzomuhle Innocent **HLATSHWAYO** Gcinukwazi Bright Zafar Mehmood **KHANYILE** Ohamkile Zamani Bongani MABASO Thabani MADELA Njabulo Andile MAGUBANE MAKHOBA Bongmusa Sakhile MALULEKE Spartan Nomonde Ellaine **MBATHA** MHLONGO **Buyisile Precious Ntombenhle MPUNGOSE** Ngobile Nomvula MTHEMBU Nombuso Precious Jane Sithabiso Sithembiso MTHUL Nosipho MUTHWA Nolwazi Nonkululeko Nomkhosi Nomthandazo Vikelihle NDAMASE Mpondokazi Mpumelelo Thulani NDLOVU Theophilus Bonginkosi NGCAWENI Thenjiwe NGUBANE

Lindokuhle Scebi
Mcebo Ernest
Sinazo
Siyabonga
Ntokozo Vusumuzi
Bongumusa Wiseman

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

BADAT	Nabeel	
*NAIDOO	Dean Emmanuel Aldrin CUM LAUDE	<i>.</i>
NGWANE	Mhlonishwa Ivan	
SHABALALA	Prosper Njabulo	

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

Transportation Eng	gineering	
*DU PLESSIS	Biermann	CUM LAUDE
GENGAYAH	Nathisha	CUM LAUDE
MASEKO	Nokuthula Innocentia	
MAZIBUKO	Lungile Buhle	
NDLOVU	Simiso Sinethemba	
NGOMA	Sthembiso Erick	
PHUNGULA	Nhlanhla	
VUMBUNU	Lloyd Ropafadzo	CUM LAUDE

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

BHENGU Thulani GANYILE Mzingisi Zukile GOVENDER Sashnee Shane CUM LAUDE Simangaliso Siphosenkosi Lawrence GUMB HARIPERSAD Vishkar Sandile Cyprian **KAWULA** S'Phelele Lady-Fair **KHUMALO** Malusi Praisegod LUTHULI Nkosingiphile Vuyo MAHLOBO MAVUNDLA Nondumiso Carol Charity Thandukwazi MAZIBUKO Sthembiso Lucky MBOKAZI MCUNU Lindelwa Thembalihle **MZIMELA** Sizwe NAIDOO Dayini CUM LAUDE Blake Clintwood *NOLTE CUM LAUDE NTULI Samkelisiwe NZAMA Thembeka Casmeyer PAUL Kyle Wesley Siphamandla Melusi Gift SITHOLE Siphamandla Samson SIWELA Anisha SUNKER ZULU Andile Nokulunga Juliet ZWANE

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

0	0	
BHOLANATH	Rashika	CUM LAUDE
BUTHELEZI	Sandile Swelihle	
DLAMINI	Lindelani S'Thembiso	
MAVUNDLA	Siyabonga Prince	
	, 0	

MEMELA MOLOI *MUSTAPHA NDLOVU VERGOTINE Dumisani Ephraim Nonhlanhla Lerato Charity Lutfiyya *CUM LAUDE* Noxolo Peacefull Autrinah Darson

Degree of Bachelor of Technology in ENGINEERING: ELECTRICAL (HEAVY CURRENT)

GOVENDER MAJOZI MASIKANE MBHELE MTHEMBU MTHEMBU NAIDOO NCIKAZI SHANGE SINGH SIQHAZA ZAMA Hemeshan Kaylin Wesley Nqobani Kuphilakuni Isaac Siphesihle Siyanda Monica Makhosazana Nonsikelelo Thandolwethu Justin Poveshan S'Khumbuzo Morris Nkululeko Praveer Zimkita Ngobile

Degree of Bachelor of Technology in ENGINEERING: ELECTRICAL (LIGHT CURRENT)

DLAMINI GOOLAM GOVENDER GOVENDER GOVENDER GOVENDER **GOVINDARAJULU GUNPATH** HADUM IWARA **KHUMALO** LUCHAL MADLALA MAHABEER MAJOLA **MBEIE MCHUNU** MDLADLA **MIWARA** MKHIZE MSOM **MTHEMBU MTHIYANE** MYAKA **MZOBE** NAIDOO NAIDOO NAIDOO NAIDU NAIR **NCAYIYANA** NENE NGCOBO NKOS NKWANYANA NSINDANE NUNDKISUN PADAYACHEE PILLAY

Ayanda Zamantungwa Lucia Anisa Simin Demaine Dylan **Eugene** Joachim CUM LAUDE Preshen Thirushen Avishay Shazia Siphamandla Emmanuel Masiza lohnson Weslev Vuvisile Portia Sashmir Vinodh Sibusisi Duncan NJabulo Allan Philani Sthabile Yvonne Sandile Nkosinathi Praisegod Kholwani Mboniseni Moses Ntlantla Wiseman Selby Nkayiso Thubelihle Ntobeko Zwakele Nonhlanhla Neloshen Nevendran **Remone Oliver** CUM LAUDE Kerosha Iordan Wesley Nonsikelelo Princess Kwazikwakhe Emmanuel Simphiwe Mhlonishwa Adonis Msawenkosi Ishmael Thulani Siyabonga Melusi Dhiresh Kriben Diresh

*Dean's Merit Award for Academic Excellence

PILLAY QWABE	Nathanael John Xolani Fortune	
RAMPESI	Khahliso	
RAMPERTAB	Konal	
ROOPNARAIN	Shon	
SHANGASE	Nontokozo Sinethem	ba
*SINGH	Priyodh	CUM LAUDE
SIRUNATH	Asheel	CUM LAUDE
ZIKHALI	Nontobeko Zuzile	
ZUNGU	Sphamandla	

Degree of Bachelor of Technology in ENGINEERING: INDUSTRIAL

ENGINEERING: IND	USIKIAL	
BHARUTH	Yakeel -Raj Ashwin	
BHEBHULA	Busisiwe	
BLOSE	Zethembe Hloniphan	i
CHETTY	Anastacia	
СОКОТО	Masilakhe Ayabonga	
DAYANAND	Mishka	
GOUNDER	Ravani	
*GOVENDER	Prenisha	CUM LAUDE
HENDRY	Ross Dean	
INDERPAL	Nikitha	
KAZADI	Steven	
KHATHIDE	Ntombifuthi Zanele	
KHUMALO	Mandisa Winterrose	
KWEYAMA	Siphelele Andrias	
MAPHALALA	Sindisiwe Princess	
MAVUNGO	Jo?o Bumba	
MDLETSHE	Mfundo Shaun	
MTHETHWA	Mthokozisi Cliford	
MUNSAMY	Tashlin Ernest	
NDLOVU	Siyamukela Benton	
NSEYA	Vicky Mbuyi	
NTSHANGASE	Siduduzo	
NXUMALO	Sabelo Goodnews	
SEWLALL	Sumir	
SHABALALA	Gift Lihle	
SHABANE	Ntokozo Percival	
SHONGWE	Siyabonga	
SIBISI	Nelisiwe	
ZUMA	Nhlanhla Percival	

Degree of Bachelor of Technology in ENGINEERING: MECHANICAL

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Degree of Bachelor of Technology in PULP AND PAPER TECHNOLOGY

MFEKA NAICKER Sphiwe Andrea Janine

Degree of Bachelor of Technology in QUANTITY SURVEYING

BUTHELEZI	Dumisile Rejoice
CELE	Mpendulo Khethokuhle
DAMANE	Mzuvelile Gift
GUMEDE	Thobile Siphindile
HLOPHE	Leon Siyabonga

*Dean's Merit Award for Academic Excellence

MAGUBANE MBATHA NONDABULA RAMLALL Sinethemba Bongiwe Zinhle Anele Goodenough Zikhona Yeshteel

Degree of Bachelor of Technology in SURVEYING

BHENGU *KADER MABASO MDAKA MKHIZE NDLELA NGOBESE NTAKA RAMAISA ZULU Blessing Sihle Shivonne CUM LAUDE Zinhle Evidence Zamile Precious Nondumiso Gabisile Zabayeni Claudia Langelihle Eustus Phindile Nomcebo Felicia Mapule Temprance Zintle

Degree of Bachelor of Technology in TOWN AND REGIONAL PLANNING

MKHIZE	Nkululeko	Nhloso
	randicito	1411030

Diploma in Engineering Technology in CIVIL ENGINEERING

BHENGU **BIYELA** BUTHELEZI BUTHELEZI BUTHELEZ CELE DUBAZANA DUMA FROST HLONGWA IAMA KHANYILE KHOASE **KHUMALO KHUMALO** KING MABASO MABUYA MAIOLA MAJOLA MAJUBANA MAPHUMULO MCHUNU **MDLETSHE** MDUNGE MHLONGO MKHIZE MKHIZE MKHIZE **MKIZE** MLABA MNGAD MNGOMEZULU MNGUN MOTAUNG **MPIKWA MTHEMBU MTHEMBU**

Mlungisi Thulani Hlakaniphani Lindokuhle Martin Lungisani Zamsile Sizwawubani Samkele Snenhlanhla Pumelelo Suprise Wozani Welcome Evan Paul Hlalanathi Smangaliso Buhle Nombuso Cynthia Tsepo Emmanuel Hloniphile Mbaliyamantungwa Mbali Selwyn Charles Siphokazi Gloria Ntsoarelo Godbless Mzothule Sibongakonke Sabelo Monde Thobeka Phindile Singatha Silungelwe Nosimilo Sabeliwe Thandeka Sinothile Andiswa Nomfundo Bongekile Ntuthuko Sinethemba Sandile James Mdumiseni Siphesihle Londiwe Thabiso Lethokuhle Ntokozo Nhlakanipho Langelihle Relebohile Zusakhe Moosa Siphiwe

MTSHALL MUNYU NALA NDAWONDE NDEBELE NDLOVU NENE NGCOBO NGCOBO NGIDI NGWANE **NTOMBELA** NTUL NYATH **NYUSWA** PAKADE RAMLUCKEN SHANDU SHAWULA SIKHAKHANE SISHI SITHOLE **SLOAN TSHAMBULE TSOTETSI** XABA ZIKODE ZOND ZUNGU **ZWANE**

Fortune Mthokozisi Fundisiwe Nkosingiphile Gift Thokozani Aphelele Zanele Nkosiyethu Thabo Nokwanda Nontethelelo Msizi Blessing Nokuvela Zamafuze Thobile Sanelisiwe Siphephelo Sibonelo Mlondi Khethokuhle Goodenough Siyabonga Sanele Sinelisiwe Victoria Senzo Lungelo Brightman Sakhile Dashveer Ntokozo Bayekhu Akhile Lisedi Precious Fisiwe Noluthando Kiara Tamia Namhla Amanda Lungelo Siyanda Bongani Malibongwe Nonjabulo Princess Sazise Mandisi

National Diploma in ARCHITECTURAL TECHNOLOGY

GINASabelo Siphephelo ZethembisoMBATHANtandoyenkosi Thabiso SphiweMBATHAWandile MinenhleMLAKALAKALonwaboMTHEMBUSenzo CyrilSINGHMicarae ChanteTHABEDESibuyiselo Gcina

National Diploma in

BUILDING

GAPPOO	Alwyn Ross
JACOB	Jonathan Brent
КНОМО	Vumani Handsome
MOSIBI	Shadrack
NKOSI	Khumbulani Harold
SIKAKANE	Amanda Nozizwe Thembekile

National Diploma in ENGINEERING: CHEMICAL

BHOMELA	Siphumelele
GOVENDER	Dhiresha
GOVENDER	Jarred
JAGGANATH	Shivanth
MAKHANYA	Noluthand Lorraine
MAZIBUKO	Nkazimulo Sakhumuzi
MOODLEY	Dayna
MUKANYA	Sarah Musau
NAIDOO	Kimone
NDAWONDE	Nontethelelo

NGCOBO RAVJEE SHEIK ABOO SIRARAMEN TULSHI Nompilo Fortunate Paayal Huzaifah Mariska Shernise Avishkar

National Diploma in ENGINEERING: CIVIL

BFFMSFN CFI F CHILIZA HLASA **HLATSHWAYO KHESWA** LUBANYANA MABASO MAIOZI MAPHISA MBHELE **MKHIZE** MNGAD **MTHEMBU MTHIYANE** MTSWENI NAIDOO NAIDOO NGEMA RAMAF **RIKHOTSO** ROBINSON SIBIYA ZONDI ZWEDALA

Avishkar Celokuhle Carol Mbuzo Sanele Kamohelo Nicholas Lifa Gift Sfiso Mluleki Tervin Debra Thembeka Amkele Sanele Siyanda Maphisa Sithokozile Thandeka Noniabulo Brenda Funani Samkelisiwe Nontobeko Noluthando **Zakhele** Themba Clement Preston Shaguille Lee Thulasizwe Rebaone Kgomotso Nhlamuselo Junaid Matthew Adam Nhlanhla Goodman Lungiswa Samkelo

National Diploma in

ENGINEERING: COMPUTER SYSTEMS

DUBEAyaKISTADOOJezMADONSELANqMTHEMBULwNYATHIKAZINoPILLAYMaRAJUNixSHONGWEBh

Ayanda Michael Jezreel Philip Nqobile Prisca Lwazi Sphamandla Nokukhanya Goodness Mageshan Nivesh Bhekokuhle Milton

National Diploma in

ENGINEERING: ELECTRICAL (HEAVY CURRENT)

BHENGU BHOOBUN COADY DHLAMINI EBRAHIM GAQA HIRALALL KAMBULE KHUMALO LAMULA MABASO MADLALA MAGAGULA MAPUMULO Thandoluhle Sachin Sheldon Bruce Phakamani Collen Fatima Unathi Joyce Nikel Thabiso George Lungelo Phakamani Ntando Nothando Siphamandla Jams Mlamuli Zwelihle Zwile Thabani Njabulo Innocent Precious Siphesihle Linda Lindokuhle MASWANGANYE MBATHA **MDAKANE MFUAMBA MKHIZE MKHIZE** MKIZE **MLIPHA** MNGAD **MTHEMBU** MTO NAIDOO NDLOVU NDUMO NGIDI NGXEKISA NXELE NYEMBE **NZIMANDE** RAMLAL SHANDU **TETHOO** YUSUF ZUNGU

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National Diploma in

ENGINEERING: ELECTRICAL (LIGHT CURRENT)

DEEPNARAIN DLAMINI FAKUDE GAMEDE GOVENDER GUMB **KHUZWAYO** LATHA LUSHOZI MAHAYE MAKAMB MBELE **MCHUNU MDLETSHE MEHTAB** MKHIZE **MNCWANGO** MNGUNI MTUL **MYEZA** NCAYIYANA NDLOVU PHAKATHI REDDY SIBIYA SINGH SITHOLE **SULEMAN** VERE XABA

Sahil Sanjay Sbongmenzi Hleziphi Cebile Ntuthuko Percyval Shalin Dean Siyabonga Sfiso Thobeka Cynthia **Fikile Happyness** Ndumiso Senamile Evidence Njabulo Brice Babongile Thobeka Lungani Abdullah Zophiwa Thimasomke Simphiwe Zwelihle Malusi Nduduzo Phumelele Assertor Lungelo Ntobeko Zulvah Thabiso Innocent Kirsten-Faye Thandokuhle Marvellous Suhail Thembelihle Eunice Mohamed Nabeel Leon loseph Mzwandile Kusanda

National Diploma in ENGINEERING: INDUSTRIAL

ATCHUTHAM CELE CELE CHETTY **CWELE** DLAMINI GANSA GIRDHARI GOVENDER **GUMEDE GUMEDE GUSHMAN** HLAMBISA **HLEKWAYO KRUGER** MABUNDA MACALA MAJARA MAIOLA MAKHOMBOTHI MALELA MAMBA MBOKAZI **MFIHLO** MOTHAPO MUNILAL NAICKEN NGCONGO NGQULUNGA NGWENYA NKADIMENG PILLAY OWABE SHEZI SIBISI VARA ZIKHALI ZULU

lamie Santon Mpilwenhle Mybaby Thabiso Calah Danielle Fezile Sylvia Thobani Lizwi Sithandiwe Akhilesh lustin Simphiwe Sanele Thembinkosi Sphamandla Siphesihle Celumusa Mduduzi Professor Sabelo Mfanafuthi Charl Mfumo Government Yanelisa Luyanda Malcom Nomcebo Pamela Sinethemba Busisiwe Hopefull Mutamba Sithandile Yenzile Zama Sethemba Lusindiso Pitsi Thabiso Dave Joel Jeremy Sai Sangithan Phindile Nomkhosi Prudence Asande Philasande Tokello Kotole Lehlogonolo Tamsvn Nhlalenhle Simangaliso Nokwethemba Precious Sanele Nomaphelo Nzuzo Kwazi Thembalethu Mthisazwe

National Diploma in ENGINEERING: MECHANICAL

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ZUNGU

Anas Mohammed Mosco Brendon Lee Hloniphani Nkanyiso Mhlanguli Cyril Suhail Rosina Kedibone Sibongakonke Wandile Sizwe Kabelo Aaron Phetolo Kolobakae Simo Luleka Nikhil Thrishul Darius Thuso Sibusiso Elisee

MAVIMBELA MCHUNU MOONSAMY MPOY MUNIEN NAIDOO NGCOBO **NHLENYAMA** NKOMENI NKOS NTSHOBANE PATEL PILLAY REDDY RUGHBEER SCHROEVEN SILAWULE SITHOLE **SUTHRAIH** TANOGUEM **TSHUMA** WALLJEE

Phiwokuhle Cyprian Mondli Jared Alexander Amiral Claude Luren Khusharlen Mthobisi Siyabonga Sanele Ayanda Zingile Nobuhle Sicelo Sanelisiwe Anikwa Divesh Levaticus Kershen Shaun Suresh Jose Andre Xalani Pedro Thulani Sanele Revash Randolphe Totso Nyiko Teressa Rashid Junaid

National Diploma in PULP AND PAPER TECHNOLOGY NGOBESE Nkanyiso Sandile

National	Diploma	in
SURVEVI	IG	

JONALIHAG	
MBOKAZI	Njabulo Christian
NGCOBO	Nkosingiphile

DURBAN UNIVERSITY OF TECHNOLOGY Inyuvesi yasethekwini yezobuchwepheshe

CONGRATULATIONS SIYAKUHALALISA