



**VAAAL UNIVERSITY
OF TECHNOLOGY**

Inspiring thought. Shaping talent.



AUTUMN GRADUATIONS - 2026

MOKETE WA DIKAPESO TSA BAITHUTI WA SEHLA SA LEHWETLA - 2026

DIKAPEŠO TŠA BAITHUTI TŠA SEHLA SA LEHLABULA - 2026

THE 60TH GENERATION OF VUT GRADUATES

APR · 15 · 2026



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VAAL UNIVERSITY
OF TECHNOLOGY

**ENGINEERING &
TECHNOLOGY**

WEDNESDAY,
APR · **15** · 2026

VUT Road to 60 campaign

The VUT Road to 60 campaign is an exciting initiative leading up to the university's diamond jubilee in June 2026. Running from August 2025 to June 2026, the campaign is designed to:

- Celebrate VUT's 60th anniversary by honouring its history and legacy.
- Strengthen institutional pride and identity among staff, students, alumni, and external stakeholders.
- Mobilise resources and partnerships to support the university's long-term sustainability and growth.
- Enhance VUT's reputation and visibility locally, nationally, and internationally.

The campaign includes a series of activations, events, and communications across the university, such as alumni engagement, donor mobilisation, student and staff activations, and outreach to external stakeholders. It is not only a commemorative activity but also a strategic positioning platform that aligns VUT's brand with its long-term ambitions.

CAMPAIGN LOGO



FLOW OF LEGACY 1966–2026

Designed by Ms Lerato Makhetha, a student in the Department of Visual Arts and Design, this emblem celebrates 60 years of strength, unity, and purpose at the Vaal University of Technology. The '6' and '0' are seamlessly connected by a ribbon, symbolising an institution that has stood firm and connected for six decades. Incorporating the VUT shield, the four lines complement the original logo. The ribbon, inspired by the Vaal River, flows from the '0' to the base of the '6', representing a gateway to the future. The design captures VUT's forward-looking vision while honouring its enduring legacy.

Join us as we celebrate the university's past, present, and future.



SESOTHO

Letsholo la VUT la Tsela e lebisang dilemong tse 6o

Letsholo la VUT la Tsela e lebisang dilemong tse 6o ke mohato o thabisang o lebisang ho jubile ya taemane ya yunivesithi ka Phuptjane 2026. Ho tloha ka Phato 2025 ho isa Phuptjane 2026, letsholo le etseditswe ho:

- Keteka sehopotso sa bo6o sa VUT ka ho hlompha nalane le lefa la yona.
- Matlafatsa boikgantsho le boitsebahatso ba setheo hara basebetsi, baithuti, baithuti ba kgale le bankakarolo ba kantle.
- Kopanya disebediswa le dilekane ho tshehetsa yunivesithi e tsitsitseng le kgolo ya nako e telele.
- Ntlafatsa serithi le ponahalo ya VUT sebakeng sa heno, naheng ka bophara le matjhabeng.

Letsholo lena le kenyelletsa letoto la tshebetso, diketsahalo le dikgokahano ho pholletsa le yunivesithi, jwalo ka boitlamo ba baithuti ba kgale, ho bokella bafani, tshebetso ya baithuti le basebetsi le ho fihlella bankakarolo ba kantle. Ha se ketsahalo ya sehopotso feela empa hape ke sethala sa maemo a leano se hokahanyang letshwao la VUT le ditabatabelo tsa lona tsa nako e telele.

LETSHWAO LA LETSHOLO



PHALLOYA LEFA 1966–2026

Letshwao lena le entswe ke Mof. Lerato Makhetho, moithuti Lefapheng la Bonono le Boqapi ba tsa Pono, le keteka dilemo tse 6o tsa matla, bonngwe le morero Yunivesithing ya Thekenoloji ya Lekwa. '6' le 'o' di hoketswe ka lente, ho tshwantsha setheo se ileng sa ema se tiile mme se hokahane ka dilemo tse mashome a tsheletseng. Ho kenyelletsa thebe ya VUT, mela e mene e tlatsana le letshwao la mantlha. Lelente, le buduletsweng ke Noka ya Lekwa, e phalla ho tloha 'o' ho ya botlaaseng ba '6', e emelang monyako wa bokamoso. Moralo ona o hapa pono e shebileng pele ya VUT ha o ntse o hlompha lefa la wona le tshwarellang.

E ba le rona ha re ntse re keteka yunivesithi ya nakong e fetileng, ya hona jwale le ya bokamoso.

SEPEDI

Lesolo la leeto la VUT la go ya mengwageng ye 60

Lesolo la leeto la VUT la go ya mengwageng ye 60 ke kgato ye e kgahlišago yeo e lebišitšego go taemane ya jubilee ya yunibesithi ka kgwedi ya Ngwatobošego 2026. Go tloga ka kgwedi ya Phato 2025 go fihla ka kgwedi ya Phupu 2026, lesolo le le hlametšwe go:

- Go keteka segopotšo sa ngwaga wa bo 60 sa VUT ka go hlomphe histori le bohwa bja yona.
- Go tliša boikgantšho le boitšhupo bja setheo magareng ga bašomi, baithuti, baithuti ba kgale, le bakgathatema ba ka ntle.
- Go kgoboketša methopo le ditirišano go thekga go tšwelapele le kgolo ya nako ye telele ya yunibesithi.
- Go godiša seriti le ponagatšo ya VUT mo selegaeng, nageng, le boditšhabatšhabeng.

Leeto le le akaretša tthatlamano ya meletlo, ditiragalo, le dikgokagano go ralala le yunibesithi, bjalo ka tlemano le baithuti ba kgale, go hwetša baabi, meletlo ya baithuti le bašomi, le go fihlelela bakgathatema ba ka ntle. Ga se fela mošomo wa segopotšo eupša ke sefala sa go beakanya maemo a maano ao a kopanyago leina la VUT le phišagelo ya yona ya nako ye telele.

LESWAO LA LESOLO



TŠWETŠOPELE YA BOHWA 1966–2026

Leswao leo le hlamilwe ke Mohumagadi Lerato Makhethe, moithuti ka Lefapheng la Bokgabo bja go Bonwa le Bohlami, le keteka mengwaga ye 60 ya maatla, kopano le maikemišetšo Yunibesithing ya Theknolotši ya Vaal. Dinomoro tše '6' le '0' tšeo di kgokagantšwe gabotse ka lelente, di laetša setheo seo se emego se tiile ebile se kgokagane mengwagasome ye tshela. Go akaretša seka sa tšhireletšo sa VUT, methaladi ye mene e tlaleletša leswao la mathomo. Lelente, le hlohleletšwe ke Noka ya Vaal, le elela go tšwa go 'o' go ya motheong wa '6', go emela kgoro ya go ya go bokamoso. Moakanyetšo o laetša pono ya VUT ya go lebelela pele mola o hlomphe bohwa bja yona bjo bo sa felego.

Eba le rena ge re keteka tša moragorago, tša bjale, le bokamoso bja yunibesithi.



**VAAL UNIVERSITY
OF TECHNOLOGY**



MESSAGE TO THE CLASS OF 2026

Esteemed Graduates, Distinguished Guests, Faculty Members, Families, and Friends

Today we gather not only to celebrate an academic milestone, but to honour a journey of perseverance, discipline and hope. Graduation is never merely the conclusion of study. It is the beginning of responsibility. It is the moment when knowledge meets the world and must prove its worth.

To the Class of 2026, you arrive at this stage at a defining moment in the history of the Vaal University of Technology (VUT). In June 2026 the University celebrates its Diamond Jubilee, marking sixty years of academic excellence, innovation and service to society. Your cohort therefore holds a special place in this historic journey. You are the Jubilee graduates, the generation that steps forward as the University marks six decades of shaping talent and transforming lives.

Across those six decades, thousands have walked these halls before you. Engineers who designed bridges and factories. Technologists who powered industries. Educators, entrepreneurs and innovators who shaped communities across South Africa and beyond. Today you

join that lineage. You become part of the living legacy of the University.

Your achievement is not yours alone. Behind every graduate stands a constellation of support. Parents who sacrificed. Families who encouraged. Lecturers who guided and challenged. Friends who walked the journey with you. Today we honour them as well, because their belief helped carry you to this moment.

Yet graduation does not take place in isolation from the realities of the world around us. South Africa continues to face profound challenges. Unemployment remains high. Poverty still shadows many communities. Inequality continues to test the promise of our democracy. These are not abstract statistics. They are lived realities that call for courage, innovation and leadership.

But history teaches us that societies are changed not only by policies and institutions. They are changed by people who refuse to accept that things must remain as they are.



At VUT, you were prepared for precisely such a moment. You were trained not simply to memorise knowledge but to apply it. To question. To design. To build. To solve problems that matter. Whether you enter laboratories, boardrooms, classrooms, factories or start your own enterprises, the education you received here equips you to turn ideas into impact.

The world you enter is one of profound transformation. Technology is reshaping industries. Artificial intelligence is redefining the nature of work. Sustainability and responsible innovation are becoming central to the future of our planet. In such a world, your qualifications are not merely credentials. They are instruments of change.

As the University walks the Road to 60, we reflect not only on where we have come from, but on where we must go. A Jubilee is not simply a celebration of years passed. It is a moment of renewal, a reaffirmation of purpose. For VUT, that purpose remains clear: to produce graduates who are builders of society, creators of opportunity, and custodians of ethical leadership.

You, the Class of 2026, embody that mission. You are the engineers who will design smarter cities and resilient infrastructure. You are the technologists who will build the industries of the future.

You are the innovators who will create businesses that generate employment.

You are the thinkers who will challenge complacency and inspire progress.

In years to come, when the history of this Diamond Jubilee is told, your generation will be remembered as the graduates who stepped forward at a decisive moment. The generation that carried sixty years of legacy and transformed it into possibility.

So walk into the world with confidence. Let curiosity guide you. Let integrity define you. Let service to society remain your compass.

May you build boldly.

May you lead with courage.

And may the knowledge you carry from this University illuminate the path ahead.

Congratulations, Class of 2026.

The future now calls your name.



SESOTHO



VC MOLAETSA HO SEHLOPHA SA 2026

Baithuti ba phethetseng dithuto ba Hlomphehileng, Baeti ba Kgabane, Ditho tsa Difakhalithi, Malapa le Metswalle.

Kajeno re bokana eseng feela ho keteka kगतokgolo ya thuto, empa ho hlomphe leeto la tiisetso, boitshwara le tshepo. Ho phethela dithuto ha ho bolele feela pheletso ya thuto. Ke qalo ya boikarabelo. Ke motsotso oo tsebo e kopanang le lefatshe mme e tlameha ho hapa boleng ba yona.

Ho Sehlopha sa 2026, le fihla boemong bona ka nako e bohlokwa naneng ya Yunivesithi ya Lekwa ya Thekenoloji (VUT). Ka Phupjane 2026 Yunivesithi e keteka Selema sa yona sa Jubilee sa Taemane, se supang dilemo tse mashome a tshelentseng tsa bokgabane ba thuto, boqapi le tshebetso ho setjhaba. Sehlopha sa lona ka hona se na le sebaka se ikgethang leetong lena la nalane. Le baithuti ba phethetseng dithuto ba Selema sa Jubilee, moloko o hatelang pele ha Yunivesithi e tshwaya dilemo tse mashome a tshelentseng (60) tsa ho bopa talente le ho fetola maphelo.

Ho phatlalla le dilemo tseo tse mashome a tshelentseng (60), ba dikete ba ile ba tsamaya diholong tseo pele ho lona. Dienjinieri tse radileng marokgo le difeme. Dithekenoloji tse matlafaditseng diindasteri. Mesuwe, borakgwebo le baqapi ba bopileng ditjhaba ho phatlalla le Aforika Borwa le ho feta. Kajeno le ikgokahanya le leloko leo. Le ba karolo ya lefa le phelang la Yunivesithi.

Phihlallo ya lona ha se ya lona le le bang. Ka mora moithuti e mong le e mong a phethetseng dithuto ho eme sehlopha sa dinaledi sa tshehetso. Batswadi ba ileng ba itela. Malapa a ileng a kgothalletsa. Barupelli ba ileng ba tataisa le ho phephetsa. Metswalle e ileng ya tsamaya leeto le lona. Kajeno re a ba hlomphe le bona, hobane tumelo ya bona e thusitse ho le tlisa motsotsong ona.

Leha ho le jwalo, ho phethela dithuto ha ho etsahale ka ho itsheka thejana dinthong tsa nnete tsa lefatshe le re potolohileng. Aforika Borwa e ntse e tobana le diphephetso tse tebileng. Tlhokeho ya mesebetsi e ntse e phahame. Bofutsana bo ntse bo aparetse ditjhaba tse ngata. Ho se lekane ho ntse ho leka tshepiso ya demokerasi ya rona. Tsena ha se lipalopalo tse sa bonahaleng. Ke dinnete tse phelwang, tse hlokanang sebete, boqapi le boetapele.

Empa nalane e re ruta hore ditjhaba di a fetoha e se feela ka melao le dibaka. Di fetolwa ke batho ba hanang ho amohela hore dintho di tlameha ho dula di le jwalo.

VUT, le ne le hlophiswa hantle bakeng sa motsotso wa mofuta ona. Le ne le kwetliswa eseng feela ho hopola tsebo empa ho e sebedisa. Ho botsa lipotso. Ho rala. Ho aha. Ho rarolla mathata a bohlokwa. Hore

na le kena dilaborathoring, dikantoro tsa boto, dikantoro tsa thuto, difeme kapa ho qala kgwebo ya hao, thuto eo le e fumaneng mona e le hlomella ho fetola mehopollo hore e be kgahlamelo.

Lefatshe leo le kenang ho lona ke le leng la phetoho e tebileng. Thekenoloji e ntse e fetola diindasteri. Bohlale ba maiketsetso (AI) bo ntse bo hlalosa boemo ba mosebetsi ka ditsela tse fapaneng. Boithlhomelo le boqapi bo nang le boikarabelo di ba bohareng ba bokamoso ba polanete ya rona. Lefatsheng le jwalo, mangolo a lona a thuto ha se phihlallo ya thuto feela. Ke disebediswa tsa phetoho.

Ha Yunivesithi e tsamaya tsela ya ho ya mashomeng a tshelentseng (60), re hopola eseng feela moo re tswang teng, empa le moo re tlamehang ho ya teng. Mokete wa Selema sa Jubilee ha se feela ho keteka dilemo tse fetileng. Ke motsotso wa ntjhafatso, ho tiisa botjha nnetefatso ya morero. Bakeng sa VUT, morero oo o ntse o hlakile: ho hlalisa baithuti ba phethetseng dithuto bao e leng baahi ba setjhaba, bathehi ba menyetla le batshireletsi ba boetapele ba boitshwara bo botle.

Lona, Sehlopha sa 2026, le emela mosebetsi oo.

Le dienjinieri tse tla rala metse e bohlale le meralo ya motheo e matla.

Le borathekenoloji ba tla aha diindasteri tsa bokamoso.

Le baqapi ba tla theha dikgwebo tse thehang mesebetsi.

Le banahani ba tla phephetsa boikaaketsi mme le kgothalletse tswelolepele.

Dilemong tse tlang, ha nalane ya Selema sena sa Jubilee sa Taemane e phethwa, moloko wa lona o tla hopolwa e le wa baithuti ba phethileng dithuto ba ileng ba hatela pele ka nako e bohlokwa. Moloko o nkileng dilemo tse mashome a tshelentseng (60) tsa lefa mme wa le fetola kgoneho.

Ka hoo, tsamayang lefatsheng ka boitshupo. Dumellang thahasello ya tsebo e le etelle pele. Dumellang botshepehi bo le hlalose. Dumellang tshebetso setjhabeng e dule e le khamphase ya lona. E ka le ka aha ka sebete.

E ka le ka etella pele ka ho hloka tshabo.

Mme e ka bohlale boo le bo jereng ho tswa Yunivesithing ena bo ka kgantsha tsela e ka pele.

Re a le lebohisa, Sehlopha sa 2026.

Bokamoso bo bitsa lebitso la hao.

SEPEDI



MOLAETŠA WA VC GO SEHLOPHA SA 2026

Dialoga tše di Hlomphegago, Baeng, Maloko a Difakhalthi, Meloko le Bagwera.

Lehono ga re kgobokane fela go keteka kgato ye bohlokwa ya thuto, eupša go hlompha leeto la go phegelela, boitshwara le kholofelo. Go aloga ga se feela phetho ya thuto. Ke mathomo a maikarabelo. Ke motsotso wo tsebo e kopanago le lefase moo e swanetše go hlatsela mohola wa yona.

Go Sehlopha sa 2026, o fihla mo nakong ye ka motsotso wo o hlaloša go histori ya Yunibesithi ya Theknolotši ya Vaal (VUT). Ka Ngwatobošego 2026 Yunibesithi e keteka Jubilee ya yona ya Taemane, e swaya mengwaga ye masometshela ya bokgoni bja tša thuto, boithlamelo le tirelo go setšhaba. Ka fao sehlopha sa gago se swere lefelo le le kgethegilego leetong le la histori. Le dialoga tša Jubilee, moloko wo o gatelago pele ge Yunibesithi e swaya mengwagasome ye tshela ya go bopa talente le go fetoša maphelo.

Mengwagasomeng yeo e tshela, ba dikete ba sepetše dihlo tše pele ga gago. Baentšeneere bao ba hlamilego maporogo le difeme. Ditsebi tša theknolotši tšeo di matlafaditšego diintasteri. Barutiši, bagwebi le bahlami bao ba bopilego ditšhaba go ralala Afrika Borwa le ka ntle ga yona. Lehono o tsenela lešika leo. O ba karolo ya bohwa bjo bo phelago bja Yunibesithi.

Phihlelelo ya gago ga se ya gago o nnoši. Ka morago ga sealoga se sengwe le se sengwe go eme sehlopha sa dinaledi sa thekgo. Batswadi bao ba ilego ba itima. Malapa ao a be go a hlohletša. Bafahloši bao ba go hlahlilego le go go hlohla. Bagwera bao ba sepetšego leeto le wena. Lehono re hlomphe wena le bona, ka gobane tumelo ya bona e thušitše go go rwala go fihla motsotsong wo.

Lege go le bjalo go aloga ga go direge ka go ikarola go dilo tša kgonthe tša lefase leo le re dikologilego. Afrika Borwa e tšwela pele go lebana le dihlotlo tše di tseletšego. Go hlokega ga mešomo go sa dutše go le godimo. Bodiidi bo sa dutše bo aparetše ditšhaba tše dintši. Go se lekalekane go tšwela pele go leka tshepišo ya temokrasi ya rena. Tše ga se dipalopalo tšeo di sa kwagalego. Ke dilo tša kgonthe tšeo di nyakago sebetse, boithlamelo le boetapele.

Efela histori e re ruta gore ditšhaba ga di fetošwe fela ke dipholisi le ditheo. Di fetošwa ke batho bao ba ganago go amogela gore dilo di swanetše go dula di le bjalo.

Mo VUT, o be o lokišetšwa motsotso o bjalo ka o. Ga se wa hlahlwa go no swara tsebo ka hlogo efela o tlwaetšwa go e diriša. Go botšiša. Go hlama. Go aga. Go rarolla mathata ao a lego bohlokwa. Go sa

šetšwe gore o tseba dilaborathoring, diphapoši tša boto, diphapošing tša borutelo, difeme goba o thoma dikgwebo tša gago, thuto yeo o e hweditšego mo e go hlomela go fetoša dikgopolo go ba khuetšo.

Lefase leo o tsenago go lona ke la phetogo ye e tseletšego. Theknolotši e bopa diintasteri lefesa. Bohlale bja maitirelo bo hlaloša leswa tlhago ya mošomo. Go swarelela le boithlamelo bjo bo nago le maikarabelo di fetoga dilo tše bohlokwa go bokamoso bja pholanete ya rena. Lefaseng le bjalo, mangwalo a gago ga se fela mangwalo a go hlatsela. Ke didirišwa tša phetogo.

Ge Yunibesithi e sepela Tsela ya go ya go 60, ga re naganišise fela ka moo re tšwago gona, eupša le moo re swanetšego go ya gona. Jubilee ga se fela keteko ya mengwaga e fetilego. Ke motsotso wa mpshafatšo, le tiišetšo gape ya morero. Go VUT, morero woo o dula o le molaleng: go tšweletša dialoga tšeo e lego baagi ba setšhaba, bahlami ba dibaka, le bahlokomedi ba boetapele bja maitshwara a mabotse. Lena, Sehlopha sa 2026, le akaretša thomo yeo.

Ke lena baentšeneere bao ba tlogo hlama ditoropo tše bohlale le mananeokgoparara ao a tiilego. Ke lena ditsebi tša theknolotši tšeo di tla agago diintasteri tša ka moso. Ke lena bahlami ba dilo tše mpsha bao ba tla hlola dikgwebo tšeo di tšweletšago mešomo. Ke lena batho ba go nagana bao ba tla hlohlogo go ikgotsofatša le go hlohletša tšwelopele.

Mengwageng ye e tlogo, ge histori ya Jubilee ye ya Taemane e anegwa, moloko wa lena o tla gopolwa bjalo ka dialoga tšeo di ilego tša gatelapele ka motsotso wa mafelelo. Moloko wo o rwelego mengwaga ye masometshela ya bohwa gomme wa e fetoša gore e be kgonagalo.

Ka fao sepela lefaseng ka boitshepo. Anke go rata go tseba go go hlahle. Anke potego e go hlaloše. A tirelo setšhabeng e dule e le tlhahlo ya gago.

Eke o ka aga ka sebetse.

Eke o ka etela pele ka sebetse.

Gomme tsebo yeo o e rwelego go tšwa Yunibesithing ye e boneše tselo yeo e lego ka pele.

Re a le leboģiša, Sehlopha sa 2026.

Bokamoso bjale bo bitša leina la gago.



VAAL UNIVERSITY OF TECHNOLOGY

OFFICE BEARERS

BALAODI | BALAODI BA OFISI



Mr VZ Mntambo
Chancellor

LL.M (Yale), LLB (Unibo);B.Iuris.



Prof MJ Radebe

Chairperson of Council : 2025 – 2027

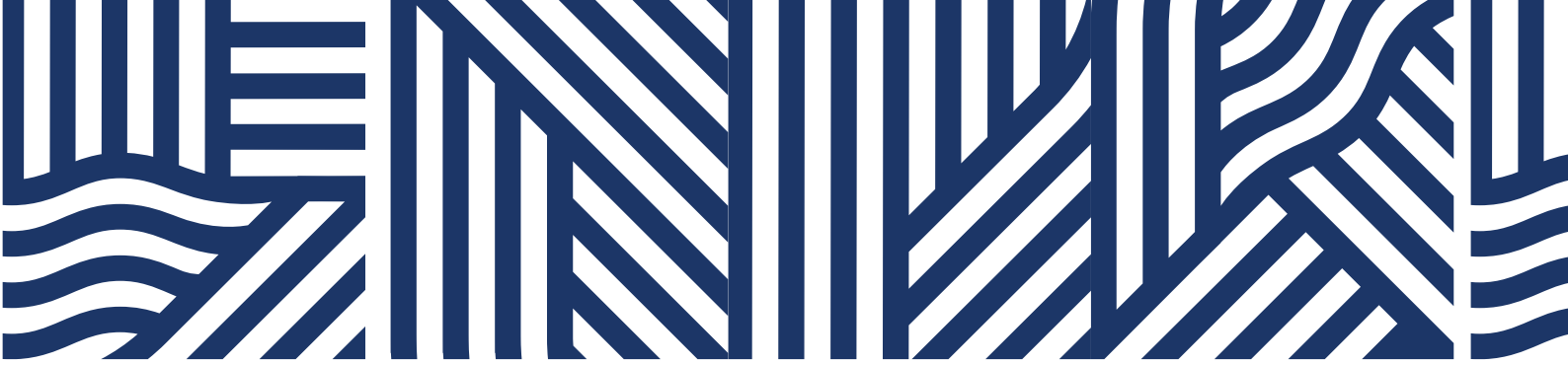
PhD : Media Studies (WITS), MA and BA Hons :
Journalism and Media Studies (WITS),
BSc : Computer Sciences (VISTA)



Prof SK Ndlovu

Vice-Chancellor & Principal

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Adv S Vilakazi
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Mr SA Mahlalela

Deputy Vice-Chancellor: Resources & Operations
Executive Leadership Development (Harvard University),
MBA(Regent Business School), CA(SD), FCCA(UK).



Dr MG Kanakana-Katumba
Deputy Vice-Chancellor Teaching & Learning

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BTECH (TUT) and ND (TUT)



Prof SM Nelana

Deputy Vice-Chancellor:
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Internationalisation
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Ms N Dhumazi CA(SA)
Chief Financial Officer

MBA (Henley Business School), MCOM (UP); BCOMPT
Hons (UNISA), BCOM (UNIVEN)



VAAL UNIVERSITY OF TECHNOLOGY

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BTech (CPUT), NDip (PT)



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Executive Dean:

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DTech: (TUT), MTech: (VUT), BTech (VUT),
N.Dip: (VUT)



HONORARY DOCTORATES

2002:

Archbishop Emeritus D Tutu - Humanities

2006:

Prof M Hinoul – Extraordinary Professorship

Dr Adv PDF Tlakula - Legal Studies

Dr M Oliphant - Sports Management

2008:

M Mangena - Applied Sciences

Adv IA Semanya - Law

DN Koloane - Fine Arts

SM Pityana - Humanities

Adv G Bizos - Law

Archbishop WHN Ndungane - Humanities

2011:

H Masekela - Human Sciences

2012:

Reverend BE Lekganyane - Human Sciences

M Mohapi (posthumously) - Human Sciences

2013:

Judge MM Mabesele - Human Sciences

G Immelman - Engineering

2016:

B E E Molewa - Applied Sciences

T Tebeila - Business Administration

I I Sooliman (Dr) - Humanities

J B Irkhede - Arts and Design Human Sciences

Mme C M Nku (posthumously) - Human Sciences

2018:

M Meyer - Management Sciences

T Makgoe - Human Sciences

2019:

Z V Sobukwe (posthumously) - Humanities



VAAL UNIVERSITY OF TECHNOLOGY

ORDER OF PROCEEDINGS

MOKGWA WA TSAMAISO YA MOSEBETSI | TATELANO YA LENANEO

The Academic Procession enters the Desmond Tutu Great Hall

Mokoloko o kena setsing sa kopanelo Desmond Tutu
Molokoloko wa Dirutegi o tseba ka Holong ya Desmond Tutu

The Vice-Chancellor & Principal Constitutes the Congregation

Motlatsa-Motjhanselara le Mosuwehlooho o Bula Mosebetsi Semmuso
Motlatša Mokhatshelara le Hlogo o Bula Kopano Semmušo

NATIONAL ANTHEM

PINA YA SETJHABA | KOŠA YA SETŠHABA

PRAYER AND WELCOME

THAPELO LE KAMOHELO | THAPELO LE KAMOGELO

PRESENTATION OF GRADUANDS

DIKAPESO | DIKAPEŠO

Executive Dean

Dini ya Phethahatso | Diniphethiši

CONGRATULATORY MESSAGE TO STUDENTS

TAKALETšo YA MAHLOHONOLO HO BAITHUTI | MOLAETŠA WA DITEBOGIŠO GO BAITHUTI

Vice-Chancellor & Principal

Motlatsa-Motjhanselara le Mosuwehlooho | Motlatša Mokhantshela le Hlogo

Vice-Chancellor & Principal Dissolves the Congregation

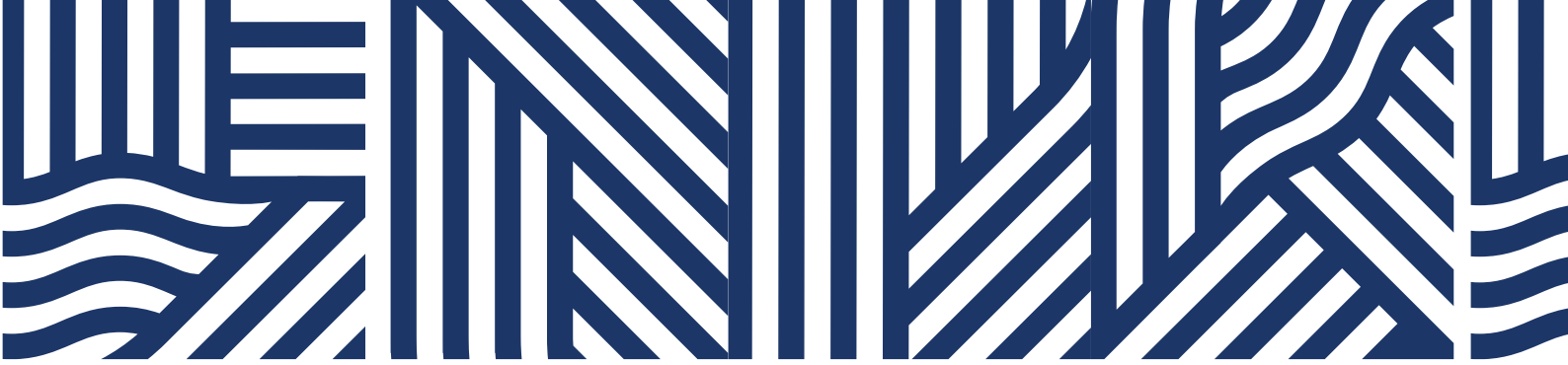
Motlatsa-Motjhanselara le Mosuwehlooho o Qhala Kopano | Motlatša Mokhatshelara le Hlogo o Phatlalatša Kopano

The Academic Procession leaves the hall, followed by Guests.

Mokoloko o tswa setsing sa kopanelo, o latelwa ke baeti ba bohlokwa. | Molokoloko wa Dirutegi o tšwa ka holong, o latelwa ke Baeng

The congregation is requested to rise and remain standing when the academic procession enters and leaves the hall.

Phutheho e koptjwa ho ema ha Mokoloko o tswa setsing sa kopanelo | Batho ba kgopelwa go ema ge molokoloko wa dirutegi o tseba le go tšwa ka holong.



NATIONAL ANTHEM

*Nkosi sikelel' Afrika
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.*





VAAL UNIVERSITY OF TECHNOLOGY

GENERAL ANNOUNCEMENTS

Ditsebiso | Ditsebišo

In order to maintain the dignity of the ceremony, you are requested to take note of the following:

- The congregation is requested to rise and remain standing when the academic procession enters and leaves the hall.
- Do not move around during the ceremony in order to take photographs.
- Please refrain from unacceptable actions such as whistling.
- Please switch off your cellphone.
- We strive to conduct the ceremonies in a dignified manner, please do not leave the hall before the graduation proceedings have been concluded.
- Qualifications of candidates who are unable to attend the graduation ceremony will be conferred in absentia.







FACULTY OF ENGINEERING AND TECHNOLOGY

13H00 - 15 APRIL 2026

DIPLOMA IN **CHEMICAL ENGINEERING**

M+3

BOTHA Chelbe Paula
GWANGWA Mosima Pretty
KHUTO Clifford Makukumare
MABASA Malwandla Wesley
MABASO Amahle
MABASO Siphamandla
MABILA Sinikiwe Querlly
MABUNDA Singita Emmanuel
MABUNDA Thulisile
MAKHOE Cythia Molebogeng
MALEKA Mokgaetsi Lerato Chatherine
MASHALA Boitumelo Tracy
MASHELE Cebile Eulander
MASHIFANE Leago
MATHEPE Khutsiso
MATHUDIYANE Ntebuheng Prudence
MAVUNDZA Xitsundzuxo Confidence
MAZIBUKO Samkelisiwe Promise
MBUYANE Tebatso Thereza
MKHWANAZI Bonga
MOLEPO Promise Maholofela
MOLWANTWA Naledi Maggy

MOUSSAVOU Cecilia
MTABANE Thokozane Ben
MTETWA Ntokozo Angel
MUNDLOVU Victor Bongani
MUSWADZI Omphulusa
NDLOVU Nomfundo Thandeka
NEDZANANI Murendeni
NGOBE Casandra
NHLEKO Nosipho Saturday
NKOMO Nokuthula Atallia
PHOHELELI Fumane Relebohile
PULE Lerato Boitumelo
RAMALEPE Leon
RAMANTSWANA Gundo
SETHOLE Lerato Perseverance
SHABALALA Kwanele
SIBISI Sfiso Kavin
SKOSANA Mbuso
THANYANI Vhukhudo
TSHUKUTSWAYA Orefile Pearl
XULU Sbonelo

DIPLOMA IN **CIVIL ENGINEERING**

M+3

BANGANE Nkosinathi
CHAUKE Ntsako
CHAVALALA Success Vafana
KHASU Roseline Relebohile
LESHILO Mahlako Obrah
LIKOEBE Nthatisi
MACHEKE Sekhali
MASEKO Themba
MASETLA Thabo Hector
MATSHETE Vhugala

MNDEBELE Njabuliso Jabulane
MNISI Hector Senzo
MOFOKENG Mahlomola William
MOFOKENG Mpho Victor
MOKOENA Mbalenhle Samantha
MUDUBU Ndivhuwo Rotondwa
MULUGISI Murangi Primrose
NGOMANE Nomthandazo Ardilate
NGOVENI Hlulani
NHLAPO Joyes Ntombizodwa



DIPLOMA IN **CIVIL ENGINEERING**

M+3

NKONGOLO Shaddai Tshaila
NKONGOLO Shaloom Nyemba
NYONI Pearl Gugu
PHATANG Oratilwe Bohlale
SHONGO Pongombo Strat
SIBIYA Bongane

SIMANGO Masungulo Peculiar
TEMA Tumisho
THOBEJANE Rudolph
TSHIKOMBA Mmboniseni Godfrey
WATTS Venessa Elaine
ZULU Noluthando Zakithi

DIPLOMA IN **METALLURGICAL ENGINEERING**

M+3

BODIBA Thapelo Robby Kwena
CHAUKE Hlonipho Poll
DUBE Fezile Clement
LETEANE Keoratile Strike
LIFHIGA Shumani Humbulani
MADLOPHA Phiwosethu Henrietta
MAFOLO Plantinah
MAIMELA Skhulile Mongezi
MATAABA Neo Candy

MATLALA Lehlogonolo
MBEDZI Maropeng Pat
MHLUNGO Ndumiso
MODIBA Morane Alina
NKATI Karabo Vennesa
RAKOTI Mohlomi Ephraim
RALISHUGU Mutshidzi
RANGWETSI Kevin Itumeleng
SIBANDE Conny Kate Angel

ADVANCED DIPLOMA IN **CHEMICAL ENGINEERING**

M+4

CUM LAUDE*

MABULAY Museme Dorcas*
MONGATANE Kgodiso*

SETSHWANE Dineo*
ZIKALALA Vuyo Junior*

CHINGOVO Marilyn Tariro
DLAMINI Lungelo
KGATITSOE Tebogo Raymond
KHUMALO Dudu Anoiting
MAGOMA Tshilidzi Wendy
MAKHODOLWANE Tshimangadzo Precious
MALATJI Nancy Malema
MALATJI Zaan
MALUNGANI Promise

MAMBA Temnotfo Tivelele
MANAMELA Mpho Manare
MANANA Samukelisiwe
MANGANYI Thulani Hope
MASHAO Pheza Andrew
MELLO Puseletso Connet
MOFA Lehlohonolo Clement
MOLEMANE Bernard Kagiso
MOTJEDI Tshegofatso Motswapuleng



ADVANCED DIPLOMA IN **CHEMICAL ENGINEERING**

M+4

MOYANE Antonette
MSIZAZWE Phelokazi
NDALA Joyce Martha
NDAMBI Surprise
NDOBE Alfa
NGOBENI Sphiwe
NGOMANE Vukosi

NTELE Tlholohelo Sharon
RAMAPATA Tokologo Confidence
RAOPHALA Maboreketla Vincent
SELOWA Tshuxeko Clifford
SIMBA Lutendo Faith
THOBEJANE Kabelo Defender
TWALA Sbusiso

ADVANCED DIPLOMA IN **CIVIL ENGINEERING**

M+4

CHILOANE Thapelo Johannes
DAVIDS Allistair Carl
DLAMINI Teresia Lindelwa Nokwazi
KHOZA Siphokazi Ashantia
KHUMALO Nomshado Vinola
MAGAGULA Mbali Nonjabulo
MAKHUDU Boitumelo Michael
MAMBA Mfundo Nhlanhla Mlungisi
MAMBANE Ingrid Rivoningo
MATHE Thabiso Prosper
MATHEBULA Bongani Brandon
MNDHLOVU Mshekesheke Shakes
MOGWERA Reamogetse
MOTHIBA Makoba Dineo
MOTSA Ncamiso Welcome

MOYANI Nwayikelo Tracy
MTHEMBU Tankisi Mendy
MTHOMBENI Zamaswazi Hillary
MUDAU Phindulo
MUFAMADI Dakalo Johhanah
MULAUDZI Khuthadzo
MZILIKAZI Sicelo
NTULI Sphiwe
PHIRI Nomhle Nosipho
RADEBE Ntokozo
SHABANGU Bhekinkhosi Timothy
SIGCAU Ovayo Kholo
TSHAMANO Cathrine Kgaoelo
XANA Ngqiqo



ADVANCED DIPLOMA IN **METALLURGICAL ENGINEERING**

M+4

CUM LAUDE* **SEFALI** Limpho*

BUTHELEZI Sinenhlanhla Nontobeko
HLUBI Mamoya Patience
KHAKHU Risthidze
LEFA Thato Brian
MABOKOANE Relebohile Edith
MADUTLELA Makhuduga Patience
MAHLABA Katlego Lucky
MAKANETE Thakgalang Donny
MAMIDHZA Ntsieni
MAMPURU Felicia Malope
MATHABATHA Dineo
MATLALA Sello
MATSILA Pearl
MHLONGO Prince Zephania Falakhe
MOGOPODI Bokamoso Princely

MOKOENA Thabang Martin Earl
MTHOMBENE Masha Mmabatho
MTHOMBENI Lindiwe
MWANZA Gasparine Mukena
NETSHIVHANDANE Fhatuwani
NGCANE Hazel Nelsiwe
NKOSI Siboniso
RAMADWA Rinolia
RAMAGONDO Jacobeth
RAVHURA Khumbudzo
TLHAPI Ofentse Simon
TSHWALE Maggie
TSOSANE Tsepo Thomas
YVES Ndumba Kajangu
ZENGELE Jabulani

POST GRADUATE DIPLOMA IN **CHEMICAL ENGINEERING**

M+5

CUM LAUDE* **LEBELO** Bontle Kayleigh* **MALULEKE** Ntokoto Precious * **MBELE** Bongwiwe*

BIYOGHE Carina Ferela
KHUMALO Tshepiso
MACHAZE Omphemetse Johosheba
MAPINDA Happiness Babalokazi
MASOMBUKA Mduduzi Emmanuel
MOGALE Ethel

MWAMBA Luboya Aaron* **NSAMAN** Christopher Tshilumbu*

MOKGOTHO Boitumelo
NDLOVU Ntokozo Melusi
NKWANE Maud Nokuzola
NOJAJA Feeinyane Lenah
NZONDOMIO Eli
RAMAANO Thikhedzo Cindy



POST GRADUATE IN **CIVIL ENGINEERING**

M+5

CUM LAUDE*

KGANYAGO Archibold Pautu*

MAJWAFI Tshepo Trevor*

KHUZWAYO Bongeka Bridget

KOLOSSA Dimpho

LEIMELA Matoane Jacobina

LETLEMA Tlholohelo

LUMBU Wa Nyembo Cedrick

MFOLO Mmatshoko Agnes Tswaranang

MOHALE Lerato Lucia

MASHABA Tshenolo Mabothisong*

MPHEPHU Awelani

MUKWEVHO Vhusani

NEKHAVHAMBE Ndanduleni

PICANE Sipehelele Sydwell

SHIBAMBU Lucky Mboni

SILINDA Victoria Nombuso

XABA Lethumusa Bongumenzi

POST GRADUATE DIPLOMA IN **METALLURGICAL ENGINEERING**

M+5

CUM LAUDE*

ILUNGA Luboya John*

LEKHULA Moeketsi Daniel*

CHAUKE Thompson

KHOATHELA Tlalinyane Nelson

MAHORI Tlharhani Rodney*

NGANDJO Lembissa Dax Edwi

NKADIMENG Thato Glen



**VAAL UNIVERSITY
OF TECHNOLOGY
ENGINEERING &
TECHNOLOGY**



MASTER OF ENGINEERING IN **CHEMICAL ENGINEERING**

M+6

KEELE Lerato Doris

**DISSERTATION: DEVELOPMENT OF A COMPOSITE FILTRATION SYSTEM
COMPRISING OF BONE CHAR, NANO-TITANIUM DIOXIDE AND NANO-SILVER
FOR THE TREATMENT OF WASTEWATER**

SUPERVISOR: Prof. PO Osifo
CO-SUPERVISOR(S): Dr M Ama

RASHAMUSE Vhahangwele Theodorah

**DISSERTATION: EVALUATION OF MODIFIED CLINOPTILOLITE AS AN ADSORBENT
AND CATALYST SUPPORT IN ANAEROBIC DIGESTION AND PHOTODEGRADATION
SYSTEM**

SUPERVISOR: Prof. John Kabuba Tshilenge
CO-SUPERVISOR: Prof. Sammy Kiambi



DOCTOR OF PHILOSOPHY (PHD) IN **CHEMICAL ENGINEERING**

M+7

KHUNE Mervyn Selebogo

THESIS: SUSTAINABLE WASTE ACTIVATED SLUDGE TREATMENT THROUGH ANAEROBIC CODIGESTION WITH FOOD WASTE

PROMOTOR: Dr Ben Otieno

CO-PROMOTOR(S): Prof. John Kabuba Tshilenge
Prof. Peter Osifo

ABSTRACT:

Municipal solid waste streams such as waste-activated sludge (WAS) and food waste (FW) present challenges for treatment but also opportunities for energy and nutrient recovery. This study investigated anaerobic co-digestion (AcD) of WAS and FW to enhance biogas production and assess techno-economic feasibility at municipal scale. Laboratory biomethane potential tests identified a 60:40 WAS:FW ratio as optimal, increasing biogas yield by 40% compared to WAS alone. Pilot-scale trials confirmed improvements, with biogas production rising from 160 L/day (WAS monodigestion) to 1,200 L/day under AcD. Upscaling to a 415 ML/day wastewater treatment plant projected biogas outputs sufficient to offset 22–196% of energy demand, achieving energy neutrality at higher loading rates. Techno-economic analysis revealed positive NPVs, IRRs well above the discount rate, and payback periods under one year, confirming strong economic viability. Additionally, digestate valorization through struvite recovery and composting produced agricultural-grade products with reduced pathogens and acceptable heavy metal concentrations. Overall, AcD of WAS and FW offers a viable pathway for energy self-sufficiency, cost savings, and circular resource recovery in wastewater treatment plants.



DOCTOR OF PHILOSOPHY (PHD) IN **CHEMICAL ENGINEERING**

M+7

KOHITLHETSE Itumeleng Christopher

THESIS: BENEFICIATION OF MODIFIED BLAST FURNACE IRONMAKING SLAG FOR CO₂ SEQUESTRATION

PROMOTER: Prof. H.L. Rutto

CO-PROMOTER: Prof M.S. Manono
Dr. C.K. Motsetse

ABSTRACT:

The escalating threat of climate change has intensified global efforts to develop sustainable Carbon Capture, Utilization, and Storage (CCUS) technologies. Iron and steel slags, particularly blast furnace ironmaking slag (BFIS), have emerged as promising materials for CO₂ sequestration due to their high CaO and MgO content. However, their widespread adoption is hindered by low CO₂ uptake efficiency, high energy requirements for processing, and a limited understanding of carbonation mechanisms. This study presents an optimized beneficiation and activation process for BFIS to enhance CO₂ capture, guided by comprehensive material characterization and kinetic modeling. The objectives were to evaluate BFIS grindability and generate four particle size fractions (-250 +150 μm, -150 +106 μm, -106 +75 μm, and -75 μm); determine grinding energy requirements using Bond's Work Index (BWI); purify slag via gravity separation with shaking tables and Falcon concentrators; characterize treated slag using XRD, XRF, FTIR, SEM, and BET analyses, and model the carbonation kinetics of CaO and MgO in hydrated slag. Grindability tests indicated a BWI of 13.5 kWh/t for BFIS, substantially lower than that of quartz (22.3 kWh/t), suggesting potential for energy-efficient processing. Gravity separation effectively removed quartz impurities, achieving recoveries of 91.2% and 98.3% via shaking table and Falcon concentrator, respectively. XRD revealed reactive phases such as akermanite and bredigite in finer fractions, while XRF confirmed increased CaO (47.2 wt%) and MgO (9.8 wt%) content post-beneficiation. FTIR spectra showed the development of Si-O and carbonate functional groups after hydration, and SEM imaging revealed enhanced surface roughness and pore formation. Atmospheric hydration using MgO and NH₄Cl induced magnesium silicate hydrate (M-S-H) phases, while BET analysis showed an increase in surface area from 49.89 m²/g to 155.33 m²/g and pore volume from 0.056 to 0.176 cm³/g. Response Surface Methodology (RSM) with a Central Composite Design (CCD) optimized hydration and CO₂ uptake conditions yielded a predictive model with an R² of 0.94. Maximum CO₂ uptake of 85% was achieved at optimal hydration time (48 h), activator concentration (1.2 wt%), and curing temperature (75 °C). Kinetic experiments with pure CO₂ at 25–80 °C indicated carbonation followed a product-layer diffusion-controlled shrinking core model (SCM), with an activation energy of 28.6 kJ/mol. Time-resolved data fitted the Jander model, with conversion rates exceeding 70% within 60 minutes. Dissolution studies in ammonium acetate confirmed chemically controlled reactions, with rate constants of 3.8 × 10⁻³ min⁻¹ for Ca and 2.6 × 10⁻³ min⁻¹ for Mg, and R² > 0.96. The results from this research demonstrate that integrating slag beneficiation, hydration activation, and kinetic modeling provides a scalable, low-energy route for industrial CO₂ capture using BFIS. The approach enhances reactivity, maximizes mineral utilization, and minimizes energy input. Future work should focus on long-term cyclic performance under flue gas conditions, pilot-scale trials in integrated steel plants, and comprehensive techno-economic and life-cycle assessments to support the commercial adoption of these technologies.



DOCTOR OF PHILOSOPHY (PHD) IN **CHEMICAL ENGINEERING**

M+7

MAKOMERE Robert Someo

THESIS: THE APPLICATION OF SODIUM-BASED REAGENTS IN DRY AND SPRAY-DRY DESULPHURIZATION SYSTEMS

PROMOTER: Prof Hilary Limo Rutto

CO-PROMOTER(S): Prof Alfayo Alugongo
Dr Lawrence Koech

ABSTRACT:

This thesis explored sulphur dioxide (SO₂) capture from coal-fired power station flue gas in South Africa using dry and spray dry flue gas desulphurisation (FGD). The study compared hydrated lime, sodium bicarbonate, trona, soda ash, nahcolite, and black ash waste as low-cost sorbents for post-combustion SO₂ removal. A stainless steel fixed-bed reactor and a spray dryer system were designed and used to test the effects of relative humidity, flue gas flow rate, bed mass, temperature, and stoichiometric ratio. Hydrated lime showed a larger reactive surface area than nahcolite, while nahcolite showed a strong pore structure and good chemical composition for sulphation. In the spray dryer, nahcolite gave the best overall removal efficiency of 62% at 120 °C, a normalised stoichiometric ratio of 1.0, and a flue gas flow rate of 33 m³/h. In the fixed-bed system, nahcolite reached 95.4% removal, supported by its high NaHCO₃ content and the high surface area of heat-treated Na₂CO₃. Response surface methodology gave a predicted removal efficiency of 94.1584%, close to the experimental value of 96.3%. Density functional theory was used to examine adsorption energy, orbital interaction, and molecular stability during sulphation. Machine learning models were also developed to predict dry SO₂ capture, and random forest performed best with the highest accuracy and lowest complexity. The findings show that nahcolite is a promising sustainable sorbent for dry FGD and can reduce the cost and environmental impact of SO₂ control. Its use offers a route for cleaner power generation and stronger environmental performance in South Africa.



DOCTOR OF PHILOSOPHY (PHD) IN **CHEMICAL ENGINEERING**

M+7

OLUOKUN Oluwayimika Olasukanmi

THESIS: UNDERSTANDING LEACHING INEFFICIENCY OF BASE AND PRECIOUS METALS FROM PRINTED CIRCUIT BOARD

PROMOTER: Prof. IO Otunniyi

ABSTRACT:

This work zooms into inefficiency in printed circuit board (PCB) leaching, probing possible coupled dissolution–adsorption events never explored, and challenging exaggerated recoveries reported. Assorted pulp particles (ceramic, polymeric) were hypothesised as physicochemical interfaces capable of competing with solution chemistry for metal species.

Adopting systemic exploration of surface science, electrochemistry, and adsorption theories, using various characterization techniques (SEM, FTIR, pHpzc) and extensive tests work, the work established that pulp particles possess heterogeneous surfaces, functional groups, and charge properties analogous to engineered adsorbents and natural preg-robbing matters combined. Interactions with oxidative ammonia, acidic, cyanide and other agents confirm depletion of dissolved species. 1 g fiberglass reduced copper from 10.74 to 3.80 mg/L and zinc from 0.40 to 0.05 mg/L in ammine solutions, while polymeric particles decreased gold from 7 to 0.49 mg/L and copper from 50 to 18.5 mg/L. Adsorption capacities reached 8.31 mg/g (Au) and 5.2 mg/g (Cu) for polymers, and up to 4.78 mg/g Cu for leach residues. This demonstrates the leaching equilibria are dynamically perturbed by solid–solution interfacial phenomena. Kinetic and isotherm modelling confirm heterogeneous surfaces and multi-layer adsorption which proceeds via twin of physisorption–chemisorption mechanisms, involving surface complexation and ion exchange, with intraparticle diffusion controlling composite residue behaviour.

Recovery losses result from thermodynamically and kinetically driven partitioning of metal species between solution and solid phases. In application, process design must integrate adsorption mitigation or post-leach desorption strategies, thereby bridging fundamental surface chemistry with applied leaching process optimization.



DOCTOR OF ENGINEERING IN **METALLURGICAL ENGINEERING**

M+7

BALOYI Nkele Martha

THESIS: INVESTIGATING THE CONSISTENCY OF Ti6Al4V (ELI) PROPERTIES OF ADDITIVE MANUFACTURED BIOMEDICAL PARTS FOR QUALIFICATION.

PROMOTER: Prof Wallace Matizanhuka

CO-PROMOTER(S) : Prof Willie du Preez
Prof Patricia Popoola

ABSTRACT:

The study evaluated whether Ti-6Al-4V (ELI) components produced by direct metal laser sintering (DMLS) meet the consistency and material property requirements of ISO 13485 and ASTM F136 for medical implants. Parts were manufactured at an energy density of 40 J/mm^3 in three production batches, then heat-treated below the phase-transition temperature and assessed for density, microstructure, mechanical performance, and fatigue behavior. Build orientation significantly affected microstructure: horizontal builds showed fully lamellar structures, while vertical builds exhibited mixed lamellar and α -globular features with an average α -lath thickness of about $6 \mu\text{m}$. All batches achieved excellent densification ($>99.95\%$) and expected crystallographic textures. Mechanical properties matched Grade 23 Titanium specifications, with microhardness around $340 \pm 40 \text{ HV}$, elastic modulus of 107 GPa , yield strength near 782 MPa , ultimate tensile strength around 875 MPa , and elongation of 16% . Fatigue testing showed endurance up to two million cycles at stresses as high as 650 MPa , with crack initiation linked to internal defects. Batch comparisons revealed variability, with Batch 2 showing the most consistent and standards-aligned performance. Overall, this work demonstrates that carefully controlled DMLS processing and post-heat treatment can produce Ti-6Al-4V implant components with reproducible, standards-compliant performance—an important step toward reliable, tool-free manufacture of complex medical devices.



FACULTY OF ENGINEERING AND TECHNOLOGY

17H00 - 15 APRIL 2026

DIPLOMA IN ELECTRICAL ENGINEERING

M+3

CUM LAUDE*

FOTA Kandji Mercy-Ka *

AL TAKI Yazan Kamal
ALLY Sfiso Amon
BALOYI Forster
BHIYA Graem Sandile
BOSOGA Mamokete Angnes
CELE Nonkululeko Zamandosi
CHABALALA Codnell
CHAUKE Dunani Ken
CHIBAMU Tinashe
DLAMINI Bandile Sebenele
EBUZOEME Emmanuel Chinonso
HADEBE Nokwethemba
HLALELE Lefu Sam
HLALELE Mahlamola Theodore
HONGWANE Sandile Theophilus
KAPEND A-key John
KEKANA Thabang Shaun
KGAKOA Thabo
LEKHULENI Nathash
LETSOALO Tshepang Mugova David
LIKHETHE Matshana Aletta
LUVHENGO Iphi
MABOTSA Tlou Emmanuel
MABUNDA Ami Mthetheleli
MABUNDA Masana Gesler
MABUNDA Tintswalo Portia
MACHETHE Keletso Douglas
MAHLOBO Deliwe Giftness
MAINGANYE Matamela
MAKGATHO Tshedza Mahetle Junior
MAKHOA Moswatsi Lucas
MALATJI Kamogelo Gareth
MALOPE Roman Molau

MALULEKE Bester
MANAKA Nthabeleng
MANALA Rinae Goodness
MANGANYI Hlohlori
MANYAKA Confidence
MAPESHOANE Thapelo Meshack
MAPONYA Klaas Mmankgeregere
MARIRI Katlego
MASANGU Ripfumelo Faith
MASEKO Ntobeko Nhlakanipho
MASEKO Petra Andiswa
MASHWAMA Gladman
MASITENG Keketso
MATABANE Keletso Llala
MATABOLA Jackson Malesela
MATHEBULA Nhletelo
MATHEKGA Itumeleng
MATHONSI Een
MAVUNDA Andzani Precius
MBEBE Sihle Gift
MBEWE Mapaseka Karabo
MDHLULI Kgothatso
MHLONGO Bheki Jimmy
MLOTSHWA Sinenhlanhla
MNGOMEZULU Themba Meshack
MOABI Terence Kamogelo
MODISE Omaatla
MOEKETSI Seipati Shirley
MOGOANE Omphile Stoffel
MOKOENA Nhlanhla Judas
MOKONI Lerato Shann
MOKWENA Fanyane July
MOKWENA Vuyo Jones



DIPLOMA IN ELECTRICAL ENGINEERING

M+3

MONYELA Lebogang Lolitan Seipati
MOSHITWA Lejahlanya Collins Rallai
MOTLOUNG Zanele
MUDAU Mukhethwa
MUKEBA Kapinga Nick
MUKWEVHO Emmanuel
MUSHORIWA Tafadzwa Cantida
NDABENI Thato Matthews
NDASHE Keitumetse Nomonde
NDEBLE Makhosazana
NDLANGAMANDLA Nsikelelo
NDUMO Tshidiso Godfrey
NEVHUNGWILI Lufuno
NGCOBO Nontokozo Perseverence
NGCOBO Siphesihle
NGCOBO Siyanda
NGOMANE Fortune Thando
NJENGELE Ashante Yolanda
NKGODI Naledi
NKOSI Happy
NKOSI Tyla Nkosinathi Lihle
NOTRICA Arnold Umba
NTILANE Nthabiseng
OKENGE Dimoke Jephthe

QOZOMBA Teboho Patrick
RAMATLHARE Surprise Rakobo
RAMUNASI Lesley
SAMBO Rito Amazing
SEHLANGU Xolani
SEJOE Kutloano Molemo
SELOANE Serobane Percy
SHIKONELE Erskine Brister
SHONGWE Sanelisiwe
SHUNGUBE Fanele Sizwe Welcome
SIBIYA Malibongwe
SIBUNDENI Sandile Ernest
SIDUMO Yamkela
SINDANE Boysie Afrika
SITHEBE Noxolo
SONDLANE Tshepo Vutomi
SUKAZI Thandeka Portia
TCHOMENI BENOGO Ashley Flore
TSOAELA Mamontsheng Florina
TWALA Maria Kelerie
VILAKAZI Immaculate Sabelo
XABA Smangele Ayanda
XOYIYA Nceba
ZOFO Nqobile Cedrick

NATIONAL DIPLOMA : ELECTRICAL ENGINEERING

M+3

DILEBO Dave Chummy
KHOZA Leon Philani

MWANDA Catherine Tsitsi



ADVANCED DIPLOMA IN ELECTRICAL ENGINEERING

M+4

CUM LAUDE*

NZAMBI Umumbu Fabrys *

ADZUBA Patrick

BASI Bongumusa Paul

BULEGA Joseph Ronald

CHIKUNICHAWA Tinotenda Washington Misheck

COSSA Phillisiano

DANGALE Mpho Pinkie

DIBAKOANE Karabo

DITHOKO Tshepang

HADEBE Nondumiso Innocentia

ILUNGA Kawang Murielle

KANYANE Reasibe Ansatacia

KEYI Sipehelele Innocent

KGATITSWE Goitsemodimo

KHALUSHI Lehlohonolo Faith

KHANGE Murendeni

LEKALAKALA Sephodi Nkokeleleng

LENONYANE Moshewene Ronald

MABASO Lehlohonolo Percy

MABULA Tshepang

MADIBE Loka Lucia

MADUDUMELA Khuliso Martin

MAHASE Rethabile Mahoete Joseph

MAHLASELA Teboho Jacob

MAKHUBELE Raynold Sizwe

MAKHUBELE Xongotelo

MAKOFANE Khutso

MALEKA Nthabiseng Joyce

MALULEKE Hlulani Ashley

MALULEKE Lindiwe Precious

MALULEKE Sungulani

MAPHAPHO Ntebaleng Dimakatso Charles

MARINDI Khensani Charmain

MASANGO Girly Eunice

MASIMOLE Teboho

MASINA Nobuntu Mvuyo

MASIYA Methews Innocent

MATHEBULA Advice

MATHEBULA Noluthando Prudence

MATHEBULA Nyiko

MATHENJWA Zibonele Zamokwakhe

MATHYE Ngwandlozi Faith

MHLABENI Sikhululekile

MIRINDI Ziruka Cythia

MKHIZE Lindokuhle

MLANGENI Lwazi Martin

MMABADI Mbavhalelo

MOABI Phuti Tebogo

MODIBA David Maimela

MOFOKENG Nthabiseng

MOJA Khutso Anna

MOKETA Basia Nicholas

MOKONE Lazarus Mafika

MOLOI Sandile Wiseman

MOLOI Seemahale Katleho

MOLOKOMME Molatelo Doreen Fatima

MOTLHABANE Tiisetso Michelle

MPE Banabantlo Mercy

MPILA Nonhle Lorraine

MTOLO Sicelo Innocent

MUTOBVU Tshifhiwa

MWINEMPATA Yumba Hugues

NDABA Silindile Ntombizonke

NDIMANDI Mkateko Benedictor

NDLOVU Wandumuzi Alex

NDUCULE Shadrack Batista Jacky

NENGOVHELA Khathutshelo

NENUNGWI Thabelo

NETSHIAVHA Khumbelo Emelda



ADVANCED DIPLOMA IN ELECTRICAL ENGINEERING

M+4

NGOEPE Malesela Jacqueline
NGWASHI Chola Dalton
NJONI Peabo Hukurile
NKOGATSE Tetelo Dannis
NKOYI Boitumelo Precious
NOGULA Songezo
NOTUNUNU Sandiso
NQABA Hope Melubakho
NTSOANE Prince Tshepo
NTULI Sibonele France
NXUMALO Thabisile Cynthia
PULE Winnie Dikeledi
RAMAKULULUKUSHA Mukundi Glen
RAMBUDA Anwani

SANYANE Tumelo
SHONGWE Sandile Mancoba
SHONISANI Rudzani
SIKRENYA Siyanda Kedibone Sandra
SITHOLE Hlulani Theophilus
SITHOLE Mpumelelo
SKOSANA Xoli Patrick
STOFILE Zanele Ethel
TALANE Repo Leshego
THEMELI Mudzunga Vanetia
TIFLOEN Rafeeq
TSHIKOSI Mulimelwa Lutendo
TSHILONGO Phophi
VILAKAZI Sekwanele Ntobizonke

POST GRADUATE DIPLOMA IN ELECTRICAL ENGINEERING

M+4

CHIYANGWA Hacieli
KHUMALO Happiness Nokuthokoza
MABUSELA Rifilwe
MALULEKE Nthabiseng
MGAVU Ramoeti Paulos
MHLONGO Zinhle Zandile
MOHLABANE Thandiwe Palesa
MONONELA Moeketsi Innocent
MOSIA Poello Simon

MUDAU Maanda Ronald
MUROVHI Nthangeni Pfarelo
MUSHITU Seyo Job
MUSHORIWA Taridzo Saul
NOGQALA Khanyisa
RAMALEPE Lesetsa Johannes
SELEPE Dineo
SHAMASE Magnificent Sbonelo



VAAL UNIVERSITY
OF TECHNOLOGY
**ENGINEERING &
TECHNOLOGY**



DOCTOR OF ENGINEERING IN **ELECTRICAL ENGINEERING**

M+7

KYERE Isaac Kwabena

DISSERTATION: A COMPARATIVE STUDY OF TIME-EVOLUTION OF PARTIAL DISCHARGE PHENOMENA OF SINGLE AND DOUBLE CAVITIES IN POLYMER INSULATION MATERIAL

PROMOTER: Prof. C Nyamupangedengu

CO-PROMOTER: Dr. AG Swanson

ABSTRACT:

This study investigates how partial discharges (PDs) behave differently in single versus double air-filled cavity defects in electrical insulation. The addressed knowledge gap enables improved efficacy of electrical equipment for PD diagnosis. Using controlled voltage testing, PD patterns were recorded from inception to failure in both single and double-cavity setups. The findings show that single cavities failed 53% earlier than closely coupled double cavities, despite being structurally identical, a counterintuitive result. This earlier failure is linked to higher PD repetition rates in single cavities, which cause more intense degradation. Both configurations showed a similar PD signal pattern evolution characteristic. A simulation model in MATLAB™ validated these observations by capturing the long-term ageing dynamics and PD behaviour. In conclusion, the study provides new insights into cavity PD defect development and supports improved diagnostic interpretation. It also lays the groundwork for future research on more complex insulation defects.





VUT Shield Icon Breakdown: Images and Descriptions.



The icon breakdown is unique as the V represents the word Vaal, and indicates the graduation hood as a symbol of achievement.



The U represents the word University



and the Centre is filled with water waves that signify a source of life and our location.



VUT BRAND MARKS/LOGOS

Faculty Brand Marks are differentiated by the colors of the V that symbolizes the faculty colour hood during graduations.



The **Academic Mark** is the purest form of the VUT brand.

The blue waves in the center represent the Vaal River and the university's location.

The gold represents academic excellence, achievement, success, and wealth.

The academic brand is only used in academic ceremonies and by the office of the Vice-Chancellor and VUT Council.



The **Marketing Brand Mark** communicates the brand voice as a person, which is Curious, Ambitious and Flexible.

Dandelion represents warmth and optimism.

Sapphire represents integrity, knowledge, power, and seriousness.



Applied & Computer Sciences
Buttercup Yellow represents Happiness & Joy.



Engineering & Technology
Beatle Green represents Nature, Environment, Health & Renewal



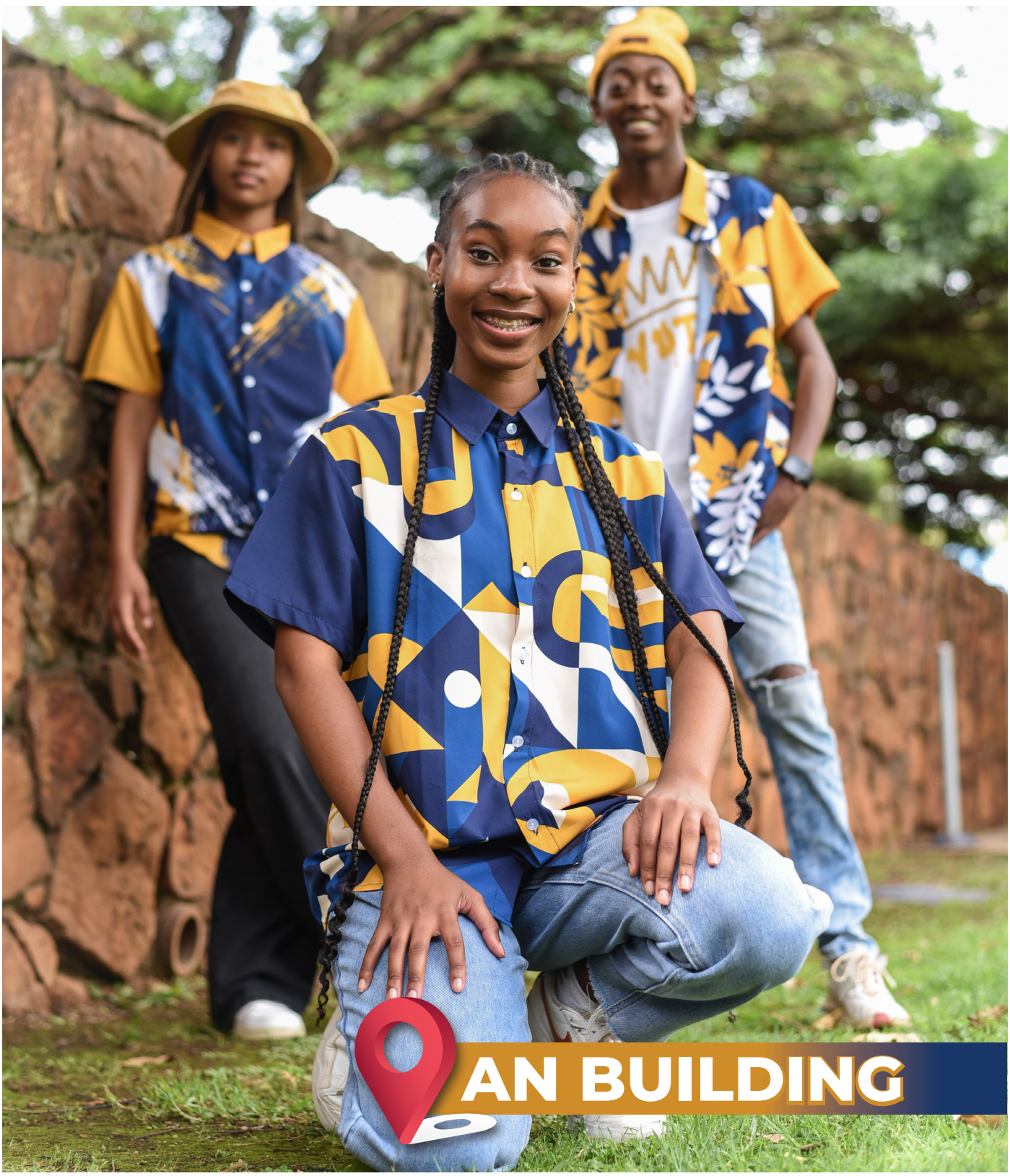
Human Sciences
Union Jack Red represents Energy, Passion, and Heat.



Management Sciences
Adonis Blue represents Harmony, Unity & Truth



The **Culture mark is the MaVUTi Mark**, a fingerprint modified in the shape of a U, symbolizing the uniqueness of VUT staff and students.



AN BUILDING



WELCOME TO CONVOCATION / ALUMNI NETWORK



Mr Makhosonke Sangweni
President of the Convocation

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Mobile 071 3501477



Mr David Matsaung
Deputy President of the Convocation

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The Convocation of Vaal University of Technology (VUT) is a statutory body that serves as the university's largest constituency, comprising its alumni and key academic stakeholders. This body plays a pivotal role in the governance and strategic direction of the institution by facilitating alumni engagement and contributing to the preservation and enhancement of the university's academic reputation.

Membership to Convocation is automatic upon the conferral of a diploma, or credit-bearing certificate. Additionally, academic staff and selected emeritus professors are included, ensuring a broad and representative body that upholds the interests of both past and present members of the university.

Roles and Responsibilities

Convocation is entrusted with the responsibility of deliberating on and providing input into matters concerning the university's development as stated in Chapter 10 (5.3) of the VUT Government framework. Its key functions include

- Electing the President of Convocation.
- Electing three Executive Committee of Convocation (Exco).

- Discussing and expressing opinions on issues affecting the university, including matters which may be referred to it by the council.
- Convocation ensures that alumni have a voice in shaping institutional policies, thereby safeguarding the credibility and value of a VUT qualification.
- Through its structured engagement, Convocation strengthens networks with donors and stakeholders to secure funding opportunities for alumni and convocants in need of financial support to fostering a collaborative and progressive academic environment.

Eligibility for Membership in VUT Convocation

The Convocation of VUT comprises the following members:

- All graduates and holders of diplomas or credit-bearing certificates from the university.
- The Vice-Chancellor, Deputy Vice-Chancellors, and all academic staff.
- Former professors and associate professors who have been granted emeritus status by the Senate.



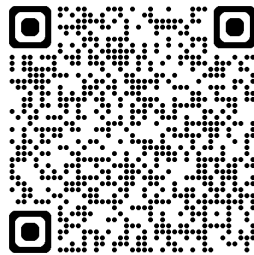
VAAL UNIVERSITY OF TECHNOLOGY

VUT™
Ekhaya
alumni



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SCAN to update
your contact details



Mr Comfort Madalane
Alumni Relations

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The role of alumni relations in any institution is to manage the relationship between an institution and all its former students and graduates. VUT, like other institutions, is committed to enhance its relationship with its former students and graduates through formal and informal programs that are mutually beneficial in nature.

Each year we strive to reconnect more former students and graduates with the current students in their respective groups of interests and academic fields that helped them most in their careers / extramural activities. We affirm all segmented Networks; be it the Vaal College for Technical Advancement, Vaal Triangle Technikon or Vaal University of Technology indiscriminately.

We would like to invite all former students and graduates to share their success stories, job opportunities, career milestones, internships, bursaries, challenges faced and mostly inputs on the current development(s) of the university. With your participation, we support VUT in its endeavors to make sustainable impact in the immediate community and the broader society. On a collaborative effort with diverse stakeholders, Convocation

& Alumni Association, students and friends of VUT, we continue to promote the VUT brand through improved marketing and communications, meaningful alumni engagements guided by the Vaal University of Technology's 2033+ Strategy.

Like a unique puzzle piece, you are an ambassador of VUT, your participation to attract and hold interests of Alumni is valued.

Welcome..., you are a now part of VUT Alumni Network; more than 100k VUT graduates since its inception in 1966.

Welcome to a variety of interest groups and networking chapters; regionally, provincially, nationally and internationally. Check us on social media and meet your peers, former Ma-Vallies / MaVuti (classmates, Res mates, Sports mates, mentors, Lecturers, etc.)

Your meaningful participation or engagement is appreciated. Thank you for choosing VUT.

OUR FACULTIES:

**APPLIED AND COMPUTER SCIENCES
ENGINEERING & TECHNOLOGY
HUMAN SCIENCES
MANAGEMENT SCIENCES**

Vanderbijlpark Campus

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