VAAL UNIVERSITY
OF TECHNOLOGY

APPLIED & COMPUTER
SCIENCES

07 APRIL 2025

AUTUMN GRADUATIONS 2025

MOKETE WA DIKAPESO TSA BAITHUTI
WA SEHLA SA LEHWETLA - 2025
DIKAPEŠO TŠA BAITHUTI TŠA
SEHLA SA LEHLABULA 2025

VAAL UNIVERSITY
OF TECHNOLOGY

TO THE CLASS OF 2025

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

Today, we gather to honour the exceptional achievements of the Class of 2025 at the Autumn Graduation Ceremonies. This milestone is not merely a testament to your academic dedication but a clarion call to action: a summons to apply your knowledge.

South Africa stands at a pivotal moment, grappling with significant socio-economic issues. As of the fourth quarter of 2024, the official unemployment rate remains alarmingly high at 31.9%, with youth unemployment (those aged 15 to 24) soaring to 44.6%. These statistics are not just numbers; they represent the lived realities of millions and underscore the urgent need for innovative solutions.

Your education at Vaal University of Technology (VUT) has equipped you with the tools to be catalysts for change. The knowledge and experiences you've gained here empower you to drive innovation, create employment opportunities, and contribute meaningfully to society. As you step into the world beyond these halls, remember that your actions have the potential to transform communities and uplift those around you.

Reflecting on the wisdom of former United Nations Secretary-General Kofi Annan: "Knowledge is power. Information is liberating. Education is the premise of progress, in every society, in every family." Your education is not an end but a beginning, a foundation upon which to build solutions that address inequality, infrastructure deficits, and joblessness.

As you embark on this journey, I urge you to:

- **Innovate with Purpose:** Seek out and develop solutions that are sustainable and inclusive, addressing the root causes of our societal challenges.
- **Engage in Lifelong Learning:** The landscape of knowledge is ever evolving. Stay curious and committed to expanding your horizons.
- **Uphold Integrity and Compassion**: Let ethical considerations and empathy guide your decisions and interactions.

Take a moment to express gratitude to those who have supported you: your lecturers, mentors, families, and friends. Their unwavering belief in your potential has been instrumental in your journey.

As you move forward, know that the VUT community stands with you, confident in your ability to lead and inspire. The challenges are great, but so is your potential to effect meaningful change.

Congratulations, Class of 2025. The future awaits your unique contributions.

I thank you!

Prof Stephen Khehla Ndlovu
Vice-Chancellor and Principal

SESOTHO

Molaetsa wa Motlatsa-Motjhanselara ho Sehlopha sa 2025

Maaparakobo ya thuto ba Hlomphehang, Baeti ba Hlomphehang, Ditho tsa Lefapha la Thuto, Maloko le Metswalle

Kajeno, re bokana ho tlotla dikatleho tse ikgethang tsa Sehlopha sa 2025 Meketeng ya Dikapeso ya Sehla sa Lehwetla. Ketsahalo ena ha se bopaki feela ba boinehelo ba hao ba thuto empa ke pitso e hlakileng ya ho nka kgato: piletso ya ho sebedisa tsebo ya hao.

Aforika Borwa e eme nakong ya bohlokwa, e tobane le mathata a bohlokwa a moruo wa kahisano. Ho tloha kotareng ya bone ya 2024, sekgahla sa semmuso sa tlhokeho ya mesebetsi se ntse se le hodimo ka mokgwa o tshosang ho 31.9%, ha tlhokeho ya mesebetsi ya batjha (ba dilemo di 15 ho isa ho tse 24) e nyolohela ho 44.6%. Dipalopalo tsena ha se dipalo feela; di emela dinnete tse phelang tsa batho ba dimilione mme di totobatsa tlhokeho e potlakileng ya ditharollo tse ntjha.

Thuto ya hao Yunivesithing ya Theknoloji ya Lekwa (VUT) e o file disebediswa tsa ho ba batsebahatsi ba phetoho. Tsebo le diphihlelo tseo o di fumaneng mona di a o matlafatsa ho tsebahatsa mekgwa e metjha, ho theha menyetla ya mesebetsi le ho kenya letsoho ka mokgwa o bonahalang setjhabeng. Ha o ntse o kena lefatsheng ntle le diholo tsena, hopola hore diketso tsa hao di na le monyetla wa ho fetola setjhaba le ho phahamisa ba o potapotileng.

Ha re nahana ka bohlale ba Mongodi Kakaretso wa mehleng wa Matjhaba a Kopaneng, Kofi Annan: "Tsebo ke matla. Boitsebiso bo a lokolla. Thuto ke motheo wa tswelopele, setjhabeng se seng le se seng, lelapeng le leng le le leng." Thuto ya hao ha se qetello empa ke qalo, motheo oo ho wona ho ka ahwang ditharollo tse sebetsanang le ho se lekane, dikgaello tsa meralo ya motheo le ho hloka mosebetsi.

Ha u kena leetong lena, ke u khothalletsa ho:

- ***Hlahisa ka Sepheo:*** Batla le ho hlahisa ditharollo tse nako e telele le tse kenyeletsang dintho tse ngata, tse sebetsanang le disosa tsa mathata a rona setjhabeng.
- ***Ho Kena Thutong ya Bophelo Bohl***e: Boemo ba tsebo bo dula bo fetoha. Dula o labalabela ho tseba mme o ikemiseditse ho hodisa pono ya hao.
- ***Boloka Serithi le Kutlwelobohloko:*** E re menahano ya boitshwaro le kutlwelobohloko di tataise diqeto le tshebetso ya hao.

Nka nako ho leboha ba o tsheheditseng: barupedi ba hao, baeletsi, ba leloko le metswalle. Tumelo ya bona e sa thekeseleng bokgoning ba hao e thusitse leetong la hao.

Ha o ntse o tswelapele, tseba hore setjhaba sa VUT se eme le wena, se na le tshepo ka bokgoni ba hao ba ho etella pele le ho kgothatsa. Diphephetso di kgolo, empa le bokgoni ba hao ba ho tlisa phetoho e bonahalang bo jwalo feela.

Ke a leboha, Sehlopha sa 2025. Bokamoso bo emetse kabelo ya lona e ikgethang.

Ke a leboha!

Moporofesa Stephen Khehla Ndlovu
Motlatsa-Motjhanselara le Mosuwehlooho

SEPEDI

Molaetša wa Motlatša-Mokhanselara go baithuti ba ngwaga wa 2025

Dialoga tše di Hlomphegago, Baeti ba ba kgethegilego, Maloko a Difakhalthi, Malapa le Bagwera.

Lehono, re kgobokane moletlong wa dikapešo tša lehlabula go hlompha dikatlego tše di kgahlišago tša baithuti ba ngwaga wa 2025. Kgato ye ya bohlokwa ga se fela bohlatse bja maitapišo a gago a thuto eupša ke pitšo ye e hlakilego ya go tšea kgato: pitšo ya go diriša tsebo ya gago.

Afrika Borwa e mo nakong ye bohlokwa, mo e mekamekana le ditaba tše bohlokwa tša ekonomi ya leago. Go tloga kotareng ya bone ya 2024, tekanyo ya semmušo ya tlhokego ya mešomo e dula e le godimo ka mo go tšhošago go 31.9%, tlhokego ya mešomo ya bafsa (bao ba nago le mengwaga ye 15 go ya go ye 24) e hlatlogile go fihla go 44.6%. Dipalopalo tše ga se dipalo feela; di laetša dilo tša bophelo bja kgonthe tšeo di phelwago ke dimilione tša batho gomme di gatelela hlokego ka moo go akgofilego ka ditharollo tša boitlhamelo.

Thuto ya gago go Yunibesithi ya Thekenolotši ya Vaal (VUT) e go file mabokgoni a go ba sehlohleletši sa phetogo. Tsebo le maitemogelo ao o a hweditšego mo a go matlafatša go hlohleletša boitlhamelo, go hlola mešomo/le go tšeakarolo ka mo go nago le mohola setšhabeng. Ge o tsena lefaseng ka mošola wa diholo tše, gopola gore ditiro tša gago di na le bokgoni bja go fetoša ditšhaba le go phagamiša bao ba le go kgauswi le wena.

Ge re naganiša ka bohlale bja Mongwaledipharephare wa peleng wa Kopano ya Ditšhaba Kofi Annan: "Tsebo ke maatla. Tshedimošo e a lokolla. Thuto ke motheo wa tšwelopele setšhabeng se sengwe le se sengwe, ka lapeng le lengwe le le lengwe." Thuto ya gago ga se mafelelo eupša ke mathomo, motheo wo go wona o ka agago ditharollo tša go se lekalekane, go hlaelela ga mananeokgoparara le hlokego ya mošomo.

Ge o thoma leeto le, ke go kgothaletša go:

- ***Hlama dilo tše mpsha ka morero:*** nyaka le go hlama ditharollo tšeo di swarelelago le go akaretšago bohle, go rarolla ditlhohlo setšhabeng sa rena.
- ***Ikgafele go Ithuta Bophelo ka moka***: Tebego ya tsebo e dula e fetoga. Phela o na le tlhlologelo le boikgafo bja go nyaka go katološa tsebo ya gago.
- ***Tshwarelela botshephegi le kwelobohloko***: Go ba le maitshwaro a mabotse le kwelobohloko go hlahle diphetho le dikamano tša gago .

Iphe nako ya go leboga bao ba go thekgilego: bafahloši, baeletši, malapa le bagwera ba gago. Tumelo ya bona ye e sa šišinyegego go bokgoni bja gago e bile bohlokwa leetong la gago.

Ge o tšwela pele, tseba gore setšhaba sa VUT sena le wena, se tshepa bokgoni bja gago bja go etapele le go hlohleletša. Ditlhohlo ke tše kgolo, eupša go bjalo le ka bokgoni bja gago bja go tliša phetogo ye e nago le mohola.

Ke a le lebogiša, sehlopha sa 2025. Bokamoso bo letetši go tšeakarolo ga gago go go ikgethilego.

Ke a leboga

Profesa Stephen Khehla Ndlovu
Motlatsa-Mokhanselara le Hlogo ya Yunibesithi

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

Prof SK Ndlovu
Vice-Chancellor & Principal
DEd (UZ), M Ed (UKZN), B Ed (UZ), B Paed (UZ),
SSTD (UZ), EDP (SU)

Ms T Maluleke
Registrar (alternate)
MBA (GIBS), PGDip(GIBS), PGDip (UJ), Btech (TUT), NDip (TUT)

Adv S Vilakazi
Registrar (alternate)
MBL (UNISA), M.Phil (UP), M.Com (UDW), LLB (UDW), B.Iuris (UDW)

Prof K Abou-El-Hossein
Deputy Vice-Chancellor Teaching & Learning (Acting)
PhD: Eng (NTU, Ukraine), MSc: Eng (NTU, Ukraine), Grad.Cert: (Curtin, Aus)

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

Ms N Dhumazi CA(SA)
Chief Financial Officer
MBA (Henley Business School), MCOM (UP); BCOMPT Hons (UNISA), BCOM (UNIVEN)

Dr SM Nelana
Deputy Vice-Chancellor: RICI Research, Innovation, Commercialisation and Internationalisation
PhD (UJ), MSc (UWC), BSc Hons (UWC), BSc (UWC)

VAAL UNIVERSITY OF TECHNOLOGY

EXECUTIVE DEANS
DIDINI TSA PHETHAHATSO | DIDINIPHETHISI

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Executive Dean:
Applied & Computer Sciences
D Tech: (DUT), M Tech: (CUT),
NH Dip: (VUT), N Dip: (VUT)

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PhD (NWU), DTech: (VUT), ADHE (UFS),
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Executive Dean:
Human Sciences
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 Semenya - 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 tsena 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

ADDRESS BY GUEST SPEAKER
PUO KA SEBUI SA LETSATSI | POLELO KA SEBOLEDI SA LETŠATŠI

PRESENTATION OF GRADUANDS
DIKAPESO | DIKAPEŠO

Executive Dean
Dini ya Phethahatso | Diniphethiši

CONGRATULATORY MESSAGE TO STUDENTS
TAKALETSO 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 tsena 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.

VAAL UNIVERSITY OF TECHNOLOGY
APPLIED & COMPUTER SCIENCES

FACULTY OF APPLIED AND COMPUTER SCIENCE

09H00 - 07 APRIL 2025

DIPLOMA IN **INFORMATION TECHNOLOGY**

M+3

BALOYI Lulama
BALOYI Mielie Tinjombo
BALOYI Ndzalama
BALOYI Ripfumelo Access
BALOYI Vutitvi Pemsi
BALOYI Vuwiselo Shiluvelo
BANDA Tshireletso
BASONKIE Nshole Gradi
CHAUKE Kulani
CHAUKE Sheridan Kulani
CHITLANGO Simon
DHAVHANA Tshireledzo
DIMA Phumlani
DUNGAYEZI Liyabona
HADEBE Lungile
HLONGWANE Lebohang
HLUNGWANI Hope
ILUNGA Banza Joel
KALUFANDU Winner Winner
KAYUMBA Mwana Kayumba
KEKANA Thato Mamatji
KHANYA Samukelo Mongezi
KHOZA Khensani Precious
KHOZA Khensani Shaun
KHUBAYI Mandla Dion
KOLOI Seipati Joyce
KOZA Katlego Charmaine
KUNENE Phumlani Perseverence
KUTUMELA Kamogelo Mmoko
LEBONA Kamohelo
LEDWABA Thabang
LEHOKO Mojabeng Evelyn
LEKARAPA Reitumetse Cornalia
LEKGAU Bohlale
LENYAI Prudence Tshegofatso
LESELE Kamogelo Glenton
LEWELE Kgakisi Defend
LIZE Yanga
LUNGA Busisiwe Patience
LUVHENGO Dakalo Precious
MABASA Mbhoni
MABASA Nhlonhlorhi
MABASA Ntsako
MABASO Keneilwe
MABATHWANA Thato Hope
MABATLE Thandiwe
MACHEKANO Ruvimbo
MADIMA Edzisani
MADULONGA Nditsheni
MADUNA Nompe Rose
MAEPA Sepeke Phineas
MAFORA Keamogetswe
MAGABANE Kith Tshepang
MAHLANGO Thamsanqa
MAHLANGU Khensani Zinhle
MAIMANE Lola
MAKAMA Rorisang Ishmael
MAKAMU Pride Xiave
MAKHUBELE Vuako
MAKUWA Ntabane Evens
MAKWELA Moora Annikie
MALATJIE Veron Karabo
MALISE Phophi
MALUKA Tinyiko Tiyiselani
MAMATELA Naledi Bokamoso
MANAGA Tshedza
MANAVI Natallie Nyeleti
MANGOATO Albert Kabelo
MANIKELA Siyabonga Toto
MANYERUKE Banele Joshua
MARUNGA Thendo Jeffrey
MASANGO Andile Nomali

DIPLOMA IN **INFORMATION TECHNOLOGY** M+3

MASANGO Thandeka
MASEKELA Strike
MASHAU Khondani
MASHELE Samantha Pearl
MASHIKA Sbusiso Solomon
MASHIMBYI Miyelani Climate
MASHISHI Lofty
MASONDO Nothando
MASUBELELE Tebogo
MASUVHE Dakalo
MATHEBULA Prayer
MATHEBULA Ripfumelo Gloria
MATSANE Basetsane Belinda
MATSHEPA Sammy Molau
MAZIBUKO Ntobeko Innocent
MBATHA Simphiwe
MBOMBI Sandra Shiluba
MBUYAZI Nicholeson
MDELISWA Lisakhanya
MDLALOSE Xola Kenny
MHLAKAZA Monde
MHLEKWA Pillar Qhayisa
MHLONGO Nyiko Marvin
MHLONGO Rorisang
MKANSI Sikhanyiselwe
MKHABELA Cwenga Percy David
MKHABELA Vutlhari Paddy
MLOTSA Khaya Mfundo
MNAMATI Sibusiso Maltination
MNGOMENI Sinesipho
MNISI Nkosimphie
MODISE Karabo
MOGOTSI Mpho Jane
MOHAPI Limpho
MOHOJE Katlego Benedict
MOKGOATJANE Tshenolo Mamagogo
MOKOENA Abel
MOKOENA Emmanuel Rapole
MOKOENA Tlhonolofatso Blessing
MOKOKA Kenosi Maria
MOLEKOA Tshepo Elias
MOLELEKOA Chabeli
MOLEMANE Thabang Phillip
MOLEWA Philemon
MOLOI Xolile Queen
MOLOKWANE Tebogo
MONASE Dakalo Confidance
MONGWE Conscious
MONONELA Tshephisho
MONYELA Kabelo April
MONYETSANE Tefo Johannes
MOTAUNG Teboho
MOTEPE Jeffrey Junior
MOTHAPO Thabang
MOTHIBI Boipelo
MOTHIBI Lesego Paulina
MOTHUSIEMANG Tlotlo
MOTHUTSANE-NKAU Phemelo Reginald
MOTLOUNG Lerato
MPADA Kabelo Jey-Di
MPETSANE Katleho
MPHAHLELE Thompho Fortune
MSIZA Nkululeko Mxolisi
MSOMI Bonga Delano
MSWELI Siyanda Brandon
MTHIMKHULU Kgaokgelo Joseph
MUGERI Vhangani
MUKAZA Mwenge Jacques
MUKOVHI Tsepo Joseph
MUSETHA Pfano
MUTLANENG Angel Mpho
MYATAZA Ntando
MYENI Mfanafuthi Sthembiso
NCONGWANE Wendy Mbali

DIPLOMA IN **INFORMATION TECHNOLOGY** M+3

NDADZA Rendani
NDLOVU Melusi
NDOU Khuthadzo
NDUMO Mpumelelo
NEMUTANZHELA Lavhelesani Rich
NETSHIPISE Pfano
NGHONYAMA Hitekani Kosnat
NGWANA Sedzani
NGWENYA Naledi Ann
NKELE Boikanyo
NKHATHO Tumahole Kenny
NKOSI Luyanda Keith
NKOSI Sandile Abel
NKOSI Sandile Aubrey
NKUMBA Lehlogonolo Percy
NKUNA Nathi
NKUNA Robson Sanele
NOBYANE Nhletelo
NSIBANDE Sakhile Pamela
NTATISO Liyabona
NTIMANE Themba
NTSHANGASE Mcondisi
NYAMANDE Uhone
NYAMUTAMBO Tshavhuyo
NYEMBE Lunga
NYEMBE Patrick
NZIYANE Caswell
OLIFANT Nombulelo Martha
PADI Ntandoyenkosi Yadah
PHALANE Ofentse
PHASHA Morategi
PITSO Paballo
QUKA Lwandile
RADALI Phathutshedzo
RADEBE Motlalepula
RADEBE Thandeka Xolile
RAMOTHIBE Clifford Tumelo
RAPANYANE Sthembile Matome Inosente
RATSOANA Agness
SANTOS Josue De Jesus Antonio Dos
SEETE Keitumetse Yvette
SEFAKO Tshediso Michael
SEGERI Nthabiseng
SEKETA Mulalo Tatforlia
SEKIBA Nthabiseng Sophie
SELLO Makgwale Matshepho
SENWANA Marriam Nsuku
SHANDU Boitumelo Alicia
SHILENGE Dzunisani Fortunate
SHILENGE Vukona Bright
SHINGUBE Walter Tervin
SHITTU Oluwatobi Martin
SHIVITI Edward Doctor Tiyani
SHONDLANI Good Hope
SHOTHELI Takalani
SIBIYA Nompumelelo Innocentia
SIBIYA Qolile Ntsako
SIGASA Nelson
SIKHAKHANE Samukelisiwe
SILIGA Zwothe
SINAMASA Tinotenda
SINGO Pfano Success
SITHOLE Paul
SKOSANA Thokozani
SWABISI Thabiso
TABANE Hlompho Teboho
TAU Gift
THIFHULUFHELWI Ngoho Rofhiwa
THOBAKGALE Thapelo Tony
THUPAYATLASE Tumelo Nelson
TINTE Lehlohonolo Otshepahetse
TJAO Pitso Jones
TLHATLHA Thato
TSHABALALA Gugulethu Pearl

VAAL UNIVERSITY
OF TECHNOLOGY
APPLIED & COMPUTER
SCIENCES

DIPLOMA IN **INFORMATION TECHNOLOGY** M+3

TSHABALALA Kgothatso
TSHABALALA Sephiwe Mecheall
TWALA Tshepang Samuel
XABA Sinalo
XEKWA Thando
XULU Nkosingimele
XULU Snenhlanhla Thobeka
ZULU Andile
ZWANE Siyanda

ADVANCED DIPLOMA IN **INFORMATION TECHNOLOGY** M+4

CUM LAUDE*
DUBE Kavilane Edward*
HLONGWANE Justice*
LEBEKO Tshegofatso*
LEGODI Mmakoloi Jesicca*
LUKHELI Thabelo Princes*
MAPHAKISA Malcom Lefa*
MASINGA Ashante*
MNAMATHI Sizwe*
MNTUNGWA Lethukuthula*
MOKETE Lerato Ramathabathe*
MOTLA Lamieka Bontle*
NTLEMO Durksie*
RIKHOTSO Faith*
SAMBO Justice*
SHIBAMBE Leon Vukona*
SHIBAMBO Londy Mihloti*
TSHAVHUNGWE Mukumela Whitney*
WNEK Barbara Grazyna*

BIYO Siyabolela
CHAUKE Rilaveta Palisa
CHAVALALA Menu Mfanelo
CHONCO Siphiwe Shaheat
KHUBAYI Rhachell
MABI Ngoya Melisa
MABODI Ngudo
MABUNDA Lebo Excellent
MAGAZI Nompedulo Karabo
MAGEZA Kopano
MAKHALEMELE Mapule Reginald
MALULEKE Lincon
MANKGE Mmathapelo Maanyaku
MANKGE Tshegofatso Edwin
MASINA Vusimuzi Teddy Gift
MASONDO Sabelo Given
MASUKU Siphesihle
MATLALA Lebogang Morongoa Calvin
MAZIBUKO Nyeleti Jennifer
MBAMBO Mbalenhle Bongekile
MEHLO Prudence
MLAMBO Olwethu
MODAU Tibu Pleasure
MOKASI Wesley
MOLEMANE Masi Vinoliah
MOLISE Eazy Paul
MOLOTO Ramokone Skei
MONYESEALA Isabella
MOTSOARI Lebohang
MUNTSWU Tshepo
NGOBENI Lorraine
NGOBENI Lunghile

ADVANCED DIPLOMA IN **INFORMATION TECHNOLOGY** M+4

NGOBENI Matimba
NGWENYILA Mandlenkosi Winly
NYAMBI Katekani Progress
RAMMBUDA Phuluso
RASEKHULA Denzel Lehlohonolo
RIKHOTSO Muhluri Theodore
SEBANYONI Nonhlanhla Precious
SEKWALA Tebogo
SHIBA Tiny Lulama
THOBISO Franscinah Tahleho

POSTGRADUATE DIPLOMA IN **INFORMATION TECHNOLOGY** M+5

CUM LAUDE*
BALOYI Matimu Attention*
HLUNGWANI Ntsako*
MAHLAKOLA Kgomotso*
MAKHARI Mpho*
MALINGA Lindelwa Pearl*
MASHIANE Mokgaetsi Melidah*
MATHEBULA Ntsako*
MATHEBULA Winnie*
MATIDZE Mishumo*
MATSEMELE Nancy Sikiti*
MOSHOADIBA Mpho Lerato Ernest*
RAMUHOVHI Phathutshedzo Cyprin*
RAVHURA Muimeleli*
SHABANGU Sharleen Sukoluhle*
VUKEYA Basambilu Millenium*
ZONDO Lerato*

BALOYE Hlalala Etian
BALOYI Blessing Themba
CHOMA Sholleen Koketso
GOMA Vhukhudo Itani
JONASE Athenkosi
KOMANE Matshehle Jeffrey
LUSHABA Sizwe Hebert
MAFUMU Dawn Khanyisa
MAKHARI Dembe
MAPHANGA Kgaogelo Nomasotsha
MASHATOLA Maropeng Dimakatso
MLOTSHWA Bridgette Khosi
MOFOKENG Tlholohelo
MOKOENA Tumelo
MOLELE Mokgadi Tiego
MONYEBODI Ntiodi Andrew
MOTAUNG Thabo
MURIGWATHOHO Ndaezo Brian
NDLEVE Mantombi Charity
NETHAVHANI Murendeni Warren
NEVUWARI Litshani Makhadzi
NKWINIKA Phillica Noxolo
NOBELA Sinothando Felicity
NYATHI Tiyane Confidence
RAMAHUMA Bereng Molebogeng Boiketlo
SIBOZE Prince Surprise
TLEMA Virginia Tebogo
TSAUANE Selina
TSHISIKULE Ndivhuwo
TSIANE Koketso

MASTER OF **INFORMATION AND COMMUNICATION TECHNOLOGY** (M+6)

CUM LAUDE*

KAPELEWELA Francis *

DISSERTATION: FACTORS THAT INFLUENCE INTENTION TO USE ROBOTIC PROCESS AUTOMATION IN INSTITUTIONS OF HIGHER LEARNING

SUPERVISOR: Prof T Zuva
CO-SUPERVISOR: Prof R Van Eck

MOTHOA Sadi Mothelethoa

DISSERTATION: THE PERCEPTION OF BIG DATA ANALYTICS IN A POWER UTILITY ORGANISATION IN THE PERCEPTION OF BIG DATA ANALYTICS IN A POWER UTILITY ORGANISATION IN SOUTH AFRICA

SUPERVISOR: Prof A Harmse
CO-SUPERVISOR: Prof A Jordaan

MOYO Nellylyn

DISSERTATION: AN ANALYSIS OF READINESS FOR THE ADOPTION OF AUGMENTED AND VIRTUAL REALITY IN THE SOUTH AFRICAN SCHOOLING SYSTEM

SUPERVISOR: Prof T Zuva
CO-SUPERVISOR: Prof A Harmse

RIKHOTSO Musa II Nkateko

DISSERTATION: HETEROPHILY BASED RECOMMENDATION SYSTEM FOR ONLINE SOCIAL NETWORKS

SUPERVISOR: Prof T Zuva
CO-SUPERVISOr: Mr E Sibanda

DOCTOR OF PHILOSOPHY IN **INFORMATION AND COMMUNICATION TECHNOLOGY** (M+7)

BROWN Andrew Charles

THESIS: ADOPTION OF E-ASSESSMENT IN TEACHING AND LEARNING OF ICT IN A BLENDED-LEARNING ENVIRONMENT

BIOGRAPHY:

Andrew Charles Brown was born in eSwatini and raised in SOS Children's Villages. He received a scholarship to study at Waterford Kamhlaba United World College of Southern Africa, before moving to South Africa to pursue IT studies at the Vaal University of Technology, where he has excelled. A member of the IITPSA, he has contributed to multiple industry projects, including his latest collaborations with MICT SETA and NTG Solutions.

He began his professional journey in the Registration department at VUT through a recommendation and was later offered a part-time Lecturer position in the ICT department, now known as the Computer Sciences department. His master's research initially focused on developing an additive manufacturing (3D printing) algorithm in South Africa. However, his passion for Teaching and Learning led him to shift the focus of his studies.

He currently chairs the Faculty of Applied and Computer Sciences Community Engagement Committee. As a dedicated researcher, he has authored multiple local and international publications and presented at international conferences. Additionally, he is the director of an IT company and remains a humble lifelong learner.

ABSTRACT:

Assessment is among the inevitable components of a curriculum and directs students' learning. Electronic assessment (e-assessment) is prepared and administered through using information communication technologies (ICTs) and provides opportunities to make the process easier in certain aspects, but it also brings certain challenges. In recent decades, e-assessment adoption in higher education institutions (HEIs) transformed the teaching and learning (T&L) process and has had a significant effect on assessment procedures. However, HEIs in developing countries are still facing various constraints that inhibit them from effectively adopting e-assessment in their T&L operations and South Africa has not been an exception. This research investigated the main reasons why South African HEIs face challenges in adopting e-assessment, with particular emphasis on the role of management in enhancing e-assessment in HEIs. The study also aimed to present a validated and implementable e-assessment adoption framework that HEIs can utilise to stimulate e-assessment adoption for the teaching and learning of ICT in a blended-learning (BL) environment.

The methodology adopted in undertaking this research was the grounded theory (GT) approach, which facilitates the creation of innovative and unique solutions relevant to the issues being studied. For this study, GT included a qualitative approach utilising semi-structured interviews with 17 ICT academics and ICT professionals across five HEIs in South Africa. The study revealed key factors influencing the adoption of e-assessment adoption in HEIs that facilitated the design of an e-assessment adoption framework (EAAF) for T&L of ICT in a BL environment.

The framework was validated using an internal validation approach. The analysed data revealed that the framework is valid and relevant for adoption, with most of the participants agreeing and accepting the framework's constructs. The principles of interpretive research were introduced and applied to test the trustworthiness of the study. The research furthermore offered

DOCTOR OF PHILOSOPHY IN **INFORMATION AND COMMUNICATION TECHNOLOGY** (M+7)

various recommendations to support HEIs and other key HEI stakeholders in resolving the challenges facing HEIs in the adoption of e-assessment, especially for ICT skills.

PROMOTER: Prof A Harmse
CO-PROMOTER: Prof A Jordaan

DOCTOR OF PHILOSOPHY IN **INFORMATION AND COMMUNICATION TECHNOLOGY** (M+7)

MOKOENA Tebogo THESIS: DETECTION OF EXPLOIT KIT ATTACKS AND CLIENT-SIDE VULNERABILITIES

ABSTRACT:
Tebogo Mokoena holds a master's in information technology with research area in Cybersecurity from the Vaal University of Technology and has recently completed the academic requirements for a Master of Science in Computer Science at North-West University, with final results pending. His doctoral research focuses on advancing exploit kit (EK) attack detection within the cybersecurity domain.

The rapid detection of exploit kit (EK) attacks and the vulnerabilities they exploit is crucial for mitigating the evolving cybersecurity landscape. Traditional models, such as the Exploit Prediction Scoring System (EPSS), have faced challenges in balancing predictive accuracy, scalability, and adaptability to new and emerging threats. Therefore, this study proposed developing a comprehensive threat hunting ontology model and threat hunting architecture to detect exploit kit attacks and effectively identify client-side vulnerabilities.

The methodology adopted is firmly rooted in the Design Science Research (DSR), highlighting the creation, development, and validation of a novel threat hunting ontology model and architecture as innovative artefacts. The EK Threat and Vulnerability Hunting Ontology (ETVHO) model was developed by enhancing the Cyber Threat Intelligence Ontology with Indicators of Exposure (IOEs), focusing on the predictability of client-side vulnerabilities, the effective management of these vulnerabilities, and the integration capabilities within existing cybersecurity infrastructures as threat intelligence feeds.

The datasets generated from EPSS, and the dataset collected from the threat hunting architecture were used in this study. ETVHO was compared with EPSS across predictive accuracy, detection scope, and adaptability. The ETVHO model achieved a predictive accuracy of 98%, outperforming EPSS's 80%. It also demonstrated high efficiency of 90%, coverage of 82%, and precision of 90%, ensuring reliable identification of exploitable vulnerabilities.

While EPSS provides broad vulnerability prediction, ETVHO specialises in EK-specific threat detection. By integrating advanced threat intelligence and machine learning-driven detection mechanisms, ETVHO minimises false positives to 8.04% while maintaining a high detection rate. This enhances its applicability in cybersecurity frameworks, allowing proactive threat mitigation. The study advocates for the joint use of ETVHO and EPSS models to improve cybersecurity practices and recommends further research on their integration into a unified framework, considering scalability and adaptability to constantly evolving cybersecurity threats.

PROMOTER: Prof T Zuva
CO-PROMOTER: Dr M Appiah

VAAL UNIVERSITY OF TECHNOLOGY
APPLIED & COMPUTER SCIENCES

FACULTY OF APPLIED AND COMPUTER SCIENCE

13:00 - 07 APRIL 2025

DIPLOMA IN **ANALYTICAL CHEMISTRY**

M+3

CUMLAUDE*
MAZAMELELA Relebogile*
MODIKA Kgadi*
OLIFANT Gomolemo*

BUTHELEZI Mpilwenhle
FAKUDE Muziwandile
HANYANE kamogelo
HLALELE Lerato Mirriam
JAFTA Tshepiso
KEKANA Ndzumbululo
KGAPHOLA Ephenia Makgwale
KHOSA Yinhla
KHUMALO Praise Nomhle
MABITSELA Mamajeremane
MADIBA Lebone
MALEKA Thabiso
MALEPE Nthabiseng Garaepha
MANGWANE Neo Innocentia
MAPHOSA Nkosinathi Senzo Thembinkosi
MASHILE Mogau Thato
MATSEPE Thekgo Ayanda
MKHARI Risima
MOLEFE Reamohetse
MOTAUNG Morapedi Joel
MOTSWENI France
MPANYANE Nontsokolo Lethabo
MPHANYA Refilwe Petunia
MQALEKANE Yolisa
SETHUMO Matshidiso Pulane Louisa*
THELETSANE Tebello Olga*

MTHIMKHULU Tshenolo Zandile
MTSHALI Lindokuhle Prince
NGALO Noxolo Joy
NGOBENI Amukelani Precious
NGOVENI Masana Lunghile
NKOSI Sandisile Lethu
PHOTOLO Puleng
QOTHELO Tumelo
RAGANYA Maite
RAMAGUVHA Andani
RAMMBUDA Thishayi
RANTHO Lehlohonolo Mahlatsi
SELALANE Katleho
SETSHEDI Oratile Bavely
SHABANGU Simnikiwe Siyathemba
SIBAMBA Portia Linah
SIBIYA Ntombikayise Cecilia
SILAULE Thembi Philile
SKHOSANA Nomcebo Sithembile
THELELE Lucia Lindiwe
TJABANE Nthatuona Mabaruti Syllvia Daisy
TLOU Nontobeko Nomvula
TSHABALALA Babongile Simphiwe
VUMA Nompumelelo

DIPLOMA IN **BIOTECHNOLOGY** M+3

BULANNGA Andani Shellot
BUTHELEZI Deboiseng Samukelisiwe
CINDI Ntokazi Promise
GODZWANA Phindulo
HLATSHWAYO Thina Sibongile
KASA Kamohelo
KHAMBULE Dinah Malefa
KHOZA Nokuthula Surprise
KHUMALO Abe Dumisani
KOBE Thuto
KOTELO Lisemelo Agnes
KUBAYI Nurcias
MACHABA Matlou
MACHEBELE Sbusiso Matimba
MACHELE Gloria Busisiwe
MAHOLWANA Mbutho-Ka-Langa
MAINE Buhle Sethabile
MAKHUBELA Sahara Nokwanda
MALULEKE Nkarhi
MAPANGA Siyabonga Senzo
MAPOLA Botshelo Mitchell
MASHIANE Nkosinathi Innocent
MASWANGANYI Will-Pliny Duniso
MATHE Nkosinathe Sakhile
MATHONSI Pheteni
MATSA Ndivhuho Maria
MBEBE Okwethu
MDLULI Lungisani Manline
MKHWANAZI Thandiwe Sinethemba
MOFOKENG Tokello Modupi
MOILAKGOMO Angel Teboho
MOJELA Tholwana
MOKHETHI Kgotso Edwin
MONYEBUDI Basetsana
MORIFI Koena Elina
MOSESI Matlou Nichole
MOTSOAI Gomolemo Maria
MUNYAI Rinae Angel
NAKANE Raymond
NCALA Lungile
NGOBENI Engetelo Loveness
NGOBENI Guide
NGOMANE Setchaba Hamid
NGWENYA Valencia Mbhali
NGXABI Enock Siphesihle
NKABINDE Ntando Sizwe
NKUNA Nhlanhla
NTSHINGILA Nonhle Khulisile
PHAKATHI S'nethemba Fortunate
RAVHURA Ritondwe
SANDLENI Antoinette Nokubonga
SIKHAKHANE Luyanda Princemah
TJEMPE Tsholofelo
TSELA Tracy
TSHABALALA Walter
TSOTETSI Mamello Mphakiseng
TSOTETSI Ntshiuwa Ntshediseng
YENDE Simphiwe Emmanuel
ZEKALA Entonga
ZULU Lethukuthula Sanele

DIPLOMA IN **ENVIRONMENTAL SCIENCE** M+3

CUMLAUDE*
MASHABA Sithembile Busisiwe*

CHAUKE Knowledge Kurisani
MANANA Portia Jabulile
MAQUTYWA Sindisiwe
MNCUBE Nthabiseng
MOKOENA Lerato
MPSHE Palesa

DIPLOMA IN **NON-DESTRUCTIVE TESTING** M+3

MULAUDZI Rendani Cyril
MALELU Malehlohonolo Precious

ADVANCED DIPLOMA IN **BIOTECHNOLOGY** M+3

CUMLADE*
DJATENG Mardini Frank*
MBELE Thando*
MHLONGO Jubilation*
MOTHOGOANE Lerato Mmeladi*
NGOBENI Lawrencia Charity*
PATRICK Mary Oluwakeni*
SKOMOLO Aphelele*

BALOYI Siphiwumusa
CHAUKE Enocetion
CHAUKE Hlalala
DIPHA Given
DOBORO Madala Forgiveness
EKUONYE Chinyere Erica
JIBIKA Ndaya Zelly
KOMSANA Ntokozo Abram
KUTOANE Gatutu Sophonia
KWINIKA Musa
MADIKGETLA Gloria
MADUNA Mamohau Florence
MAHLOMUZA Tshiamiso Bonolo Vision
MALATJI Karabo Maitje
MALULEKE Prayer
MASANGU Wisani Malwandla Bright
MASHEGO Bophelo Penelope
MATHEBULA Thandi
MATUMBA Phathutshedzo Pretty
MNISI Clarah
MOERANE Amogelang Masego Lagisho
MOHLAMME Mapula Rosina
MOKOENA Ntombikayise
MOLATHLEGI Ofentse Esther
MOLEBATSI Palesa Precious
MOSOETTSOANA Reamohetsi
MOTSOAHOLE Lerato Kamohelo
MTHEMBU Velile Mac

ADVANCED DIPLOMA IN **BIOTECHNOLOGY** M+3

NAKA Kutlwano Lucrecia
NCUBE Lungile
NHLAPO Nomathemba Abigail
NUKERI Andzani Abudence
OSAGIEDE Frank Ogbemudia
PIRES Bernada
RIKHOTSO Kuhlula
SIBEKO Mmateboho
TEKA Kgothalang Matlale
TICHAPTCHET YIMGA Fiorella Gala
TSHIPANI Thuso
TSOTETSI Thabang Phiri
ZWANE Bongi Sandra

ADVANCED DIPLOMA IN **CHEMISTRY** M+4

CUMLAUDE*
BLE Yanne Urim Sherina Elisheva*
LESEMELA Madiphaphang Isabel*
MADJINOU NDOGOU Grace Lyria*
MATLHANYE Shantel Katlego*
MAWELA Khensani Alicia*

BANTWINI Kolosani
BUTHELEZI Siphiwokuhle
FATAKI Nzeyzey Hadassa
HADEBE Ncamiisile
HOBONGWANA Siphosethu
KAYUMBA Yves
KHANYI Mary-Ann
KHEO Lineo
LUWOLO Nice Kabogo
MAKENDA Kabamba Arthur
MAKGWE Dimakatso
MAKHUTLA Keneuoe Elizabeth
MAKHWITING Tshilomba Kabasele
MASHAPA Precious Seboya
MASINDI Pfano
MASIYE Maria Albertina
MATLALA Tshepo
MAVUSO Zanele Mildia
MDLULI Eric Simphiwe
MKHAVELE Virginia Mkateko
MNISI Lonercia Lerato
MOJAPELO Thapelo
MOKAKABE Khotso
MOKHARI Hlayisani Trecia
MOKHEJANE Tlotlo Kamohelo
MOKHOMO Neo
MOKOENA Mpho Edward
MOLOI Jennifer Refiloe
MOREKI Matsiliso Salmina
MUKHARI kurhula Basil
NCHABELENG Rapher Thabang
NEFALE Ndivhoniswani Octovia
NGOIE Kitenge Marie
NKANYANE John Tshepo
NKOMO Ketumetse Victoria
NTHANGENI Amuneyi
NWAFOR Arnold Chizitere
NYAMANDE Khumbudzo
PITJADI Mahlabe Colman
PULULU Palesa Rose
SANGWENI Khwezi Phindile
SEKONYANE Malebatsa Solomon
SIPHUMA Masedi Lilly
TEBANE Ripfumelo Christaline

ADVANCED DIPLOMA IN **CHEMISTRY** M+4

TLADI Tshepang

TWALA Sithembiso Sibongakonke

ADVANCED DIPLOMA IN **NON-DESTRUCTIVE TESTING** M+4

NGOBENI Miehleketo Christopher

BACCAREULAUS TECHNLOGIAE: **CHEMISTRY** M+4

NKOYI Siphelele

POSTGRADUATE DIPLOMA IN **BIOTECHNOLOGY** M+5

CUMLAUDE*
ALAMAEZE Ijeoma Faith*
HLAHANE Tsholofelo Hope*
MENIE AMBITI Edouarda Celine Martine*
MNGUNI Divine Kamogelo*
MOKUBUNG Boitumelo*
NDUKU Modeline Thandiwe*
NYANTABANA Hannah*

CHAUKE Kamogelo
GANDINI Khuliso
MALULEKA Fikile Mathomo
MAPHUTHA Thabang William
MAPOKGOLE Moloko
MATHEBULA Nyiko Kenveo
MHLANGA Sibusisiwe Thobeka
NGUBENI Londiwe Sphumelele
RAMOKGOATEDI Tshepiso Mastokisi Johannah
SELEME Mahlagaume Thoriso

POSTGRADUATE DIPLOMA IN **CHEMISTRY** M+5

CUMLAUDE*
MQUSHULU Aphelele*

BAPELA Kopano Milly
CHONGO Nokuthula Precious
LEPOLESA Sthepiso
MATAMELA Ndivhuwo
MATLABE Mmalebate Junior
MOHLALA Mponeng Lizzy
MOTHUPI Karabo Maputlane
MPHAHLELE Tlou Laetecia
RATHEKO Dikeledi Martha*

MTSHOTSHISA Viwe
NGWANE Busisiwe Jeanet
RAHLAO Nomaswati
SEGODI Oratilwe Stanley
TSHIVHASE Maanda
TSHUTSHANE Lakheni Zamabhala
ZAPE Mandisa Joyce
ZWANE Bafana Johannes

MASTER OF **APPLIED SCIENCE IN BIOTECHNOLOGY** (M+6)

CUM LAUDE*

CHILWANE Kholofelo*

DISSERTATION: ANTI-INFLAMMATORY POTENTIAL OF BIDENS PILOSA EXTRACTS ON LIPOPOLYSACCHARIDE STIMULATED RAW264.7 CELLS

SUPERVISOR: Dr S Takaidza
CO-SUPERVISOR: Dr R Nkuna

MAPHOSA Patrinel Zandile*

DISSERTATION: INVESTIGATION OF PLANT GROWTH PROMOTING FUNGI (PGPF) FROM THEMEDA TRIANDRA AND VACHELLEA KARROO ON PLANT GROWTH PROMOTION IN ZEA MAYS AND GLYCINE MAX

SUPERVISOR: Dr TA Walmsley
CO-SUPERVISOR: Dr E Ncube

MUDAU Wanga*

DISSERTATION: THE INFLUENCE OF SOLAR IRRADIATION ON PROTEIN DEGRADATION AND CARBONYLATION IN ESCHERICHIA COLI

SUPERVISOR: Prof CC SSemakalu
CO-SUPERVISOR: Mr N Laloo

NCONGWANE Mbalenhle Antonic *

DISSERTATION: ISOLATION AND CHARACTERIZATION OF MICROORGANISMS WITH ZEARALENONE REMOVAL ABILITY

SUPERVISOR: Prof M Pillay
CO-SUPERVISORS: Dr S Takaidza & Dr Chihomvu

MAGAGULA Simphiwe Gift

DISSERTATION: THE ANTIMICROBIAL ACTIVITY AND MECHANISMS OF ACTION OF BIDENS PILOSA EXTRACTS AGAINST SELECTED FOOD PATHOGENS

SUPERVISOR: Dr S Takaidza
CO-SUPERVISORS: Dr P Chihomvu & Ms Z Marrengane

MASTER OF **APPLIED SCIENCE IN BIOTECHNOLOGY** (M+6)

MKHONTO Thokozani Thabang Innocent

DISSERTATION: COMPARISON OF CONVENTIONAL AND ISOTHERMAL DIAGNOSTIC ASSAYS FOR THE DETECTION OF TILAPIA LAKE VIRUS (TILV) AND INFECTIOUS SPLEEN KIDNEY NECROSIS VIRUS (ISKNV) IN AQUACULTURE USING SHELF-LIFE EXCEEDED REAGENTS

SUPERVISOR: Prof CC SSemakalu
CO-SUPERVISOR: Dr E Suleman

MASTER OF **APPLIED SCIENCE IN CHEMISTRY** (M+6)

MABALANE Koketso*

DISSERTATION: THE ADSORPTION OF CHROMIUM (CR(VI), MANGANESE (MN(II), METHYLENE BLUE (MB), IBUPROFEN (IBU) AND PARACETAMOL (PRC) FROM WATER BY A BLEND MATERIAL OF AVOCADO SEEDS AND PAPER WASTE

SUPERVISOR: Prof ND Shooto
CO- SUPERVISOR: Dr PM Thabede

NKOSI Nkululeko Excellent*

DISSERTATION: SORPTION OF PHARMACEUTICAL POLLUTANTS (PARACETAMOL), METAL IONS (CD2+, NI2+) AND ORGANIC DYE (METHYLENE BLUE DYE) FROM AQUEOUS SOLUTION USING MODIFIED CHILLI PEPPER (CAPSICUM ANNUUM)

SUPERVISOR: Dr PM Thabede
CO-SUPERVISORS: Prof ND Shooto & Dr NN Mabaso

GOCI Mvula Confidence

DISSERTATION: CHITOSAN-BASED NANOSTRUCTURED POLYMER BIOCOMPOSITES ASNANOSORBENTS FOR MERCURY ADSORPTION FROM WASTEWATER AND AS PASSIVE SAMPLERS FOR ADSORBING TOTAL GASEOUS MERCURY

SUPERVISOR: Prof MJ Klink
CO- SUPERVISORS: Dr A Taka & Dr L Martin

DOCTOR OF PHILOSOPHY IN **BIOTECHNOLOGY** (M+7)

CHALWE Joseph Musonda

THESIS: DEVELOPING A CARDIOVASCULAR RISK MODEL FOR THE BLACK ELDERLY IN SOUTH AFRICA BY CORRELATING GENETIC POLYMORPHISMS AND THE RISK FACTORS: A PILOT STUDY

BIOGRAPHY:

Joseph Musonda Chalwe is a medical laboratory scientist who completed both his undergraduate studies in Biomedical Technology and his postgraduate studies in Biotechnology at Vaal University of Technology. He has a strong passion for genetics and boasts over 10 publications in accredited journals, including a book chapter. Committed to advancing the fight against cardiovascular diseases (CVDs), cancer, nutrigenomics, and infectious diseases, he is currently involved in the medical devices and diagnostics industry, providing specialist support to his team and medical professionals throughout the African continent.

ABSTRACT:

For his doctoral thesis, he developed a cardiovascular risk model designed to examine the relationships between genetic polymorphisms and their respective cardiovascular risk (CVR) factors. Genetic polymorphisms have been found to have a correlation with an individual's susceptibility to developing CVD. However, there is limited scientific evidence to support this especially in African populations. Hence, the objectives of this study were to determine the prevalence of eight (8) single nucleotide polymorphisms (SNPs), to assess the prevalence of (9) cardiovascular risk (CVR) factors, to correlate the eight (8) polymorphisms with the nine (9) risk cardiovascular risk (CVR) factors and to develop a structural equation model for CVR in a black elderly South African population. A total of 61 elderly participants attending a Day Care Centre in Sharpeville, South Africa (RSA) were recruited for this study.

The Structural Equation Modelling (SEM) procedure involved three (3) steps. Firstly, creation of the latent variables and the hypothesis model. This was then followed by Confirmatory Factor Analysis (CFA) which was used to examine the relationships between the latent variables.

The findings from this study indicated that the SNPs are highly distributed in this population and the modifiable risk factors for CVD are also prevalent. This study lends support to evidence that indicates that the presence of SNPs interferes with gene expression resulting in either defective or irregular concentrations of the CVR factors. This is because some of the allele carriers of the SNPs in this population had higher levels of the CVR factors than those without. Lastly, a model was developed to explain some of the mechanisms that link genetic polymorphisms with the risk factors of CVD particularly, dyslipidemia and metabolic syndrome.

Larger studies with different populations are recommended to confirm these results.

PROMOTER: Prof CJ Grobler
CO-PROMOTER: Prof WH Oldewage-Theron

DOCTOR OF PHILOSOPHY IN **BIOTECHNOLOGY** (M+7)

LALOO Neelan

THESIS: AN INVESTIGATION OF THE IMMUNOMODULATORY EFFECTS OF CRUDE EXTRACTS FROM CARPOBROTUS EDULIS ON MACROPHAGES IN VITRO

BIOGRAPHY:

Mr Neelan Laloo completed his BSc, BSc Honours and MSc in Biotechnology at the University of the Witwatersrand. After a short spell as a lecturer in the Department of Biotechnology at Technikon Witwatersrand (now University of Johannesburg), he was employed permanently as a lecturer in the Department of Biosciences at VUT. This department is now known as the Department of Natural Sciences. He later joined the newly established Cell Biology Research Unit and started his PhD under the supervision of Professor Michael Pillay and Professor Cano Ssemakalu.

ABSTRACT:

Carpobrotus edulis or sour fig, is an edible plant that is used widely in traditional medicine in South Africa for a variety of ailments. The plant has antioxidant, anti-inflammatory, antibacterial, antifungal and anticancer properties and is used in the treatment of skin and wound infections, insect bites and mouth and throat infections. Despite its wide use as a medicinal plant, empirical research focusing specifically on its immunomodulatory effects remains sparse. This study aimed to investigate the immunomodulatory effects of C. edulis on RAW264.7 macrophage cells. Factorial designs were used to determine the optimal parameters to maximize the yield of crude leaf extracts. The variables used in extraction included solvent, pH, extraction temperature and extraction duration. Statistical software was used to determine which extraction parameters produced the highest yield and phytochemical content. The presence of phenolics, flavonoids and antioxidants in the plant extracts was determined using standard protocols. These are the primary compounds responsible for the medicinal properties of this plant. A positive correlation was found between the phenolic content and antioxidant activity of the extracts. The RAW264.7 macrophage cells were found to be metabolically active even after treatment with high concentrations of the extracts. Next, the macrophages were treated with the plant extracts to determine nitric oxide production. High concentrations of nitric oxide would suggest that the plant extracts were causing an inflammatory response. Some of the extracts triggered little to no production of nitric oxide, suggesting the presence of an anti-inflammatory response. It appears that the extraction parameters determined the effect of the plant extracts on the macrophages. Two of the extracts were selected for further study based on their viability, proliferative potential, and low nitric oxide production in RAW264.7 cells. In the next part of the research, the genes and proteins expressed by the macrophages after treatment with these two extracts were assessed. qPCR and Luminex assays were carried out to determine whether the macrophages were being polarized towards the M1 or M2 phenotype. M1 macrophages are associated with an inflammatory response, while M2 macrophages are associated with an anti-inflammatory or tissue repair response. Molecules associated with the M1 phenotype increased in response to treatment with the two extracts. These results suggested that in the absence of a strong anti-inflammatory response, the cells are being polarized towards an M1 phenotype. High concentrations of GM-CSF (granulocyte macrophage-colony stimulating factor) were detected – this molecule attracts monocytes and macrophages to the site of injury. The extracts appeared to reduce the expression of genes and proteins associated with the anti-inflammatory response. This suggests that the two C. edulis extracts used here are nontoxic and have an immunostimulatory effect on the RAW264.7 cells. This study showed that the therapeutic effects of C. edulis appear to be dependent on extraction conditions and the concentration of the extracts.

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DOCTOR OF PHILOSOPHY IN **BIOTECHNOLOGY** (M+7)

PROMOTER: Prof M Pillay
CO-PROMOTER: Prof CC Ssemakalu

DOCTOR OF PHILOSOPHY IN **BIOTECHNOLOGY** (M+7)

MPHUTHI Betty Refilwe

THESIS: SYNTHESIS OF NANOPARTICLES-HEMP BASED MULTIFUNCTIONAL MATERIALS FOR THE REMOVAL OF METHYLENE BLUE DYE, TOXIC METAL IONS (CR(VI)), PB(II), CD(II) AND THE IMMOBILIZATION OF SELECTED PATHOGENS FROM SYNTHETIC WASTEWATER

BIOGRAPHY:

Betty Refilwe Mphuthi completed her BSc and BSc Honours degrees at the University of Limpopo (UL) and got employment at the Vaal University of Technology in the Natural Sciences department as a laboratory Technician. Mrs Mphuthi went on to enrol for MTech Biotechnology degree at the Vaal University of Technology and after completing her MTech degree she registered for a PhD degree in 2022. Mrs Mphuthi's work was presented in three international conferences, and three articles/papers were published in accredited peer review journals.

ABSTRACT:

The work focused on the reduction of solid waste in the environment and the removal of chemical and biological pollutants from water. After oil extraction, tons of spent hemp seeds are thrown away as solid waste and this creates a problem of solid waste accumulation in the environment. The study focused on development of novel materials that inhibit the growth of pathogenic bacteria Escherichia coli (E. coli) and Staphylococcus aureus (S. aureus), while removing chemical pollutants from the water. Chemical pollutants removed included cadmium (Cd(II)), chromium (Cr(VI)), lead (Pb(II)), methylene blue (MB), ibuprofen (IBU) and paracetamol (PRC). The removal of these pollutants from water is necessary to safeguard human health and the environment. In this work untreated hemp seeds (PHS) were carbonized at 500 and 700 °C to obtain carbon-based hemp seeds (CHS-500 and CHS-700) and nanocomposites of hemp seeds deposited with binary nanoparticles of MnO/CuO and MnO/ZnO were used as adsorbents. Untreated hemp stem & twigs (UST), roots (UHR) and activated carbon from stem-twigs (ACST) and roots (ACHR) with phosphoric acid (H3PO4) were used as adsorbents to remove pollutants using adsorption technology. The microscopic images showed that the morphology was porous for CHS-500 and CHS-700, while for HS-MnO/CuO and HS-MnO/ZnO the nanoparticles were agglomerated on the surface of the hemp seeds. Adsorption was endothermic for Cd(II), Pb(II), Cr(VI), PRC and MB and exothermic for IBU. Agar well diffusion showed that the samples inhibited the growth of E. coli and S. aureus. The minimum inhibitory concentration (MIC) of HS-MnO/ZnO showed efficacy of 6.25 and 1.56 µg/mL for both E. coli and S. aureus, respectively. The hemp-based composites were more effective than a commercial antibiotic (neomycin) which showed effectiveness at 12.5 and 6.25 µg/mL for E. coli and S. aureus. The hemp-based adsorbents proved to be efficient in removing the various pollutants from wastewater.

PROMOTER: Prof ND Shooto
CO-PROMOTERS: Dr PM Thabede, Dr M Monaphathi, Prof FM Mtunzi, Prof SJ Modise and Dr Z Nate

DOCTOR OF PHILOSOPHY IN **CHEMISTRY** (M+7)

BOUT Wanda

THESIS: PREPARATION DEVELOPMENT AND CATALYTIC BEHAVIOUR OF IRON SUPPORTED ON ACTIVATED CARBON, FROM PINE CONE WASTE

BIOGRAPHY:

Wanda Bout is the firstborn of Dalindyebo Bout and Nopumelelo Mantutu. He was raised humbly by his late grandparents Wenkile Bless Bawuti, Nowethu Bawuti and Nokhaya Lilian Monakali. Wanda Bout began his primary education at Vuyelethu Primary School in Kwadaba Village and completed his matric at Mantomela Senior Secondary in 2005 in Gcinisa Location. Wanda Bout earned his B:Tech in Analytical Chemistry from Walter Sisulu University in 2011, Master of Technology degree in 2014 with Cum Laude at the Vaal University of Technology, earning him the prestigious VUT Vice-Chancellor Award. He served his PhD incubation under the tutelage of Prof. S.J. Modise. During his internship at the VUT chemistry research laboratory, Wanda Bout was an active member of the Organic Synthesis and Catalysis Research Group under the mentorship of Dr. L. Ngodwana. He is currently a lecturer in the Department of Natural Science and Chess coach at VUT. His work includes the development of sustainable catalysts for the degradation of organic pollutants in water and the synthesis of hydrocarbons via Fischer-Tropsch Synthesis (FTS), targeting cleaner alternatives of energy.

ABSTRACT:

Pinecone biomass presents an underutilized yet promising resource for sustainable catalyst development, particularly in the fields of environmental remediation, synthetic fuel production, and water filtration. This research investigated the dual role of pinecone as both a reducing agent and a catalyst support for iron-based catalysts. Through an innovative impregnation pyrolysis process, iron precursors were reduced and supported on pinecone-derived activated carbon, using KOH activation, and further enhancing porosity and catalytic performance. The Fe/C catalysts demonstrated exceptional performance in Fenton-like reactions for wastewater treatment, achieving superior organic pollutant degradation efficiency compared to the conventional iron catalysts. Their potential to activate alternative oxidants, such as thiosulfate, expands their applicability in diverse water treatment systems, particularly in regions with limited access to hydrogen peroxide. The use of pinecone-derived activated carbon also enhanced catalyst stability and reusability, reducing secondary pollution and minimizing operational costs in wastewater treatment plants.

In Fischer-Tropsch Synthesis (FTS), the Fe/C catalysts exhibited enhanced hydrocarbon selectivity, increased resistance to sintering, and prolonged the catalytic lifespan. The synergistic effect of KOH activation and biomass-derived carbon support significantly improved metal dispersion and reaction kinetics, resulting in higher yields of desirable liquid hydrocarbons. The study highlights the benefits of utilizing pinecone biomass over conventional reducing agents, thus offering a sustainable approach to catalyst design. The enhanced properties, and business viability of Fe/C catalysts position them as promising candidates for large-scale applications in wastewater treatment, synthetic fuel production, and advanced water filtration technologies. This advancement aligns with global sustainability goals by offering an environmentally friendly alternative to conventional fossil fuel-based processes.

PROMOTER: Prof SJ Modise
CO-PROMOTERS: Dr E Viljoen, Prof E Van Steen, Prof AE Ofomaja, Dr L Ngodwana, Prof T Xaba & Prof ND Shooto

VAAL UNIVERSITY OF TECHNOLOGY
APPLIED & COMPUTER SCIENCES

FACULTY OF APPLIED AND COMPUTER SCIENCE — 17:00 - 07 APRIL 2025

DIPLOMA IN **BIOMEDICAL TECHNOLOGY** — M+3

MAKHUBELA Siboniso Bhisi
NGOBESE Zwelakhe
RAPATSA Joyce

ADVANCED DIPLOMA IN **BIOMEDICAL TECHNOLOGY** — M+4

CUM LAUDE *
KHOTSO Palesa Rose*
KUMALO Tshepo Romeo*
LETEANE Relebogile Moipone*
LETSITSI Nolo Sharon*
MAHLANGU Ricky Jabulane*
MALOMA Maseorane Getrude Lesego*
MANAMELA Baleseng*
MASIA Pfano*
MAZIBUKO Phindile Kagiso*
MPHIGALELA Muimeleli*
MTHEMBI Andile*
MTHIMUNYE Nqobile Miranda*
NTSHEKI Karabo Charlotte*
NTULI Bongiwe Roselinah*
SIZIBA Phumeza Thina*

BALOYI Nhlamulo Freckle
BOTA Queen Kelebogile
BUKASA Alice Bitota
BUTHELEZI Thembekile Virginia
CHAOLE Mamello Patricia
CHAUKE Ponani Trement
CHEFANE Felleng Pascalina
DIREKO Karabelo Sharon
FAKUDE Thandeka Crizane
FIHLANI Siphokazi
HLALUKANE Adelia Tshawane
HLAPA Mokgadi Gwendoline
KAMONYI Ndaye Nadege
KEELE Nthatisi Hilda
KHANYILE Aphilwe Nolwazi Anele
KHOSA Ponani Victoria
KHOTLELE Lerato Alina
KHOZA Thobile Mueriel
KHUMALO Nonhle Nolwazi
LEBESE Khomotso Petunia
LEKWAPE Khumo Pearl
LENGAU Refiloe Lerato
LESEYANE Mmathapelo Charmaine
MABASO Charlotte Khensani
MABE Matshidiso Mamaila Lydia
MADIBA Vuyolwethu Rethabile
MADUNA Hadiyo Constance
MAFEREKA Bonolo
MAGIDI Khuliso
MAGOMANA Seboke Bridget
MAHAYA Siboniso Advocate
MAJOLA Mathapelo Nancy
MAKHALANYANE Mapapali Jeanette
MAKUME Oratilwe
MAKWARELA Tshiphiwa Petricia
MALATJI Itumeleng Nthabiseng Euphrencia
MALEKA Lerato
MALETO Kutloano Penelope

ADVANCED DIPLOMA IN **BIOMEDICAL TECHNOLOGY** M+4

MALINGA Tshepiso Edith
MALOMA Desiree
MALOMA Kamogelo Innocentia
MANGANYE Ntsako Witness
MANGOLE Refilwe Lunthy
MAPHANGA Victoria Ranapo
MAPHELA Thembisile Xoliswa
MASANGO Sindile Philisile
MASHABA Tshamani Chantelle
MASHABANE Nelisiwe Cynthia
MASHAVA Tshifhiwa
MASHIANE Mpho Mary
MASHITISHO Nare Mengry
MASHUMU Boitumelo
MATHE Nontobeko
MATOTOKA Kamogelo Boitumelo
MATSANE Basetsane Goodness
MAUNATLALA Tumelo Colleen
MBOKANE Simphiwe Gift
MFONO Simbongile
MHLANGA Siphilile
MKANSI Sonia Nkhesani
MKHONTO Valentia
MMAKAU Thatego Innocentia
MOALUSI Motshidisi Lebogang
MOFOKENG Matau
MOGASHOA Dineo Sizane
MOHALE Mary
MOHAPI Malineo Ernestinah
MOHLEHLI Nkosazana Reneilwe
MOHOHLO Amissa
MOKOENA Maditlhare Maria
MOKOENA Terrance Maribeng
MOKOENA Tshediso
MOKONE Nonyane Stephen
MOLABA Nthabeleng
MONARE Kopano
MOREMI Antly Kahlego
MOSIANE Koketso
MOTSHWENI Busisiwe Cynthia
MOTSOENENG Nthabiseng Precious
MOYO Sibonginkosi Maria
MPHAHLELE Mpho Mogohlwe
MSIMANGO Proudy Siyabonga
MTHEMBU Elsie Nompumelelo
MTHEMBU Zama Felecia
MTUZE Xoliswa Felicia
MUDAU Thendo Awelani
MULAUDZI Ndishavhelafhi Salvation
MULEYA Vhutshilo
NDLOVU Siboniso Abel
NDOU Lutendo Honest
NEMUTANZHELA Tshifhiwa
NGHUNYULE Ntiyiso Liberty
NJABANTWA Zintle
NKOSI Lungile
NKUNA Collen
NQURU Nozipho Alice
NTOMBELA Nokubonga Londiwe Bandile
NTOMBELA Nonjabulo Xolile Felicia
NYOFFU Ramasela Mmabatho
RAMANENZHE Ronewa Rejoice
RAMANO Washu Innocentia
RAMASHALA Ingrid
RAMAUBE Katlego Matsibe
RATHAHA Mokete Happy
RATSHIBVUMO Dzivha
SAMBO Matello Eliza
SEBALO Moipone Zoe
SEETSI Fumane Mamello
SEFOLOKO Mamello Priscilla
SEKATE Bokang

VAAL UNIVERSITY OF TECHNOLOGY

APPLIED & COMPUTER SCIENCES

ADVANCED DIPLOMA IN **BIOMEDICAL TECHNOLOGY** M+4

SEKETE Kelebogile Carol
SELEKE Reitumetse
SENONG Letebele Glander
SEOTSA Mabohlokoa
SHAI Thabang Frank
SHAMASE Siphesihle
SHONGWE Queen Fortunate
SIBIYA Whitney Thandeka
SILIKA Phumudzo Afanso
SKWATSHA Akhona
TJIANE Puseletso Motsokgwane
TOTI Nombulelo Prudence
TUWADUVHANI Lusani Julian
ZULU Dalisu Siphamandla Ndabenhle
ZULU Sithembisiwe Precious

BACHELOR OF HEALTH SCIENCE: **MEDICAL LAB SCIENCE** M+4

CUM LAUDE*
MAHLOMOLA Teboho*
NGULUBE Yamkela*

ADESAMI Ademola Olumide
KHOMOLA Tshepiso Natasha
LEBEKO Bakang Cedrick
MAHLABE Thakane Confidence
MALEPE Boreadi Shantel
MAMEDZI Mulalo
MARUMOLA Remofiloe
MATHEBULA Kurhula Tracia
MOLATUDI Prince Ntshephe
MOSITSA Valencia
MUFAMADI Rendani
NKOLE Sandisiwe Princess
NSELE Phumlani Siyabonga
NSELE S'phesihle Nonkululeko
PHALI Keketso Gift
PHATSHWANE Keneilwe Lisbeth
RASEASALA Thuto Cordelia
SHABANGU Nokhukhanya Sindiswa
SITHOLE Lwazilwenkosi

POSTGRADUATE DIPLOMA IN **BIOMEDICAL TECHNOLOGY** M+5

CUM LAUDE*
MTHEMBU Zama Felicia*
NYATLO Vanessa Tebello*

BRITS Mapitso Louise
DHLAMINI Busisiwe Jeaneth
HLOPHE Thato Uyanda
HLUNGWANE Nikiwe Juliet
JACOBS Gladys Phindile
MADIKGETLA Lehlohonolo
MMAKOLA Terrence Dimpho
MUTHAMBI Cecilia
NDLOVU Methembe Bradley
NKOSI Nompomelelo Hope
PHUNGE Rudzani Bridget
PILLAY Gabrielle Rachel
RAPITSE Mamatsiliso Francinah
SELEPE Obeda Masetshaba

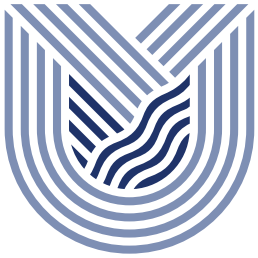
POSTGRADUATE DIPLOMA IN **BIOMEDICAL TECHNOLOGY** M+5

SIBIYI Nokubonga
THOBEJANE Mmasekele Tumisho
XUBUZANA Pretty Zandile

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.

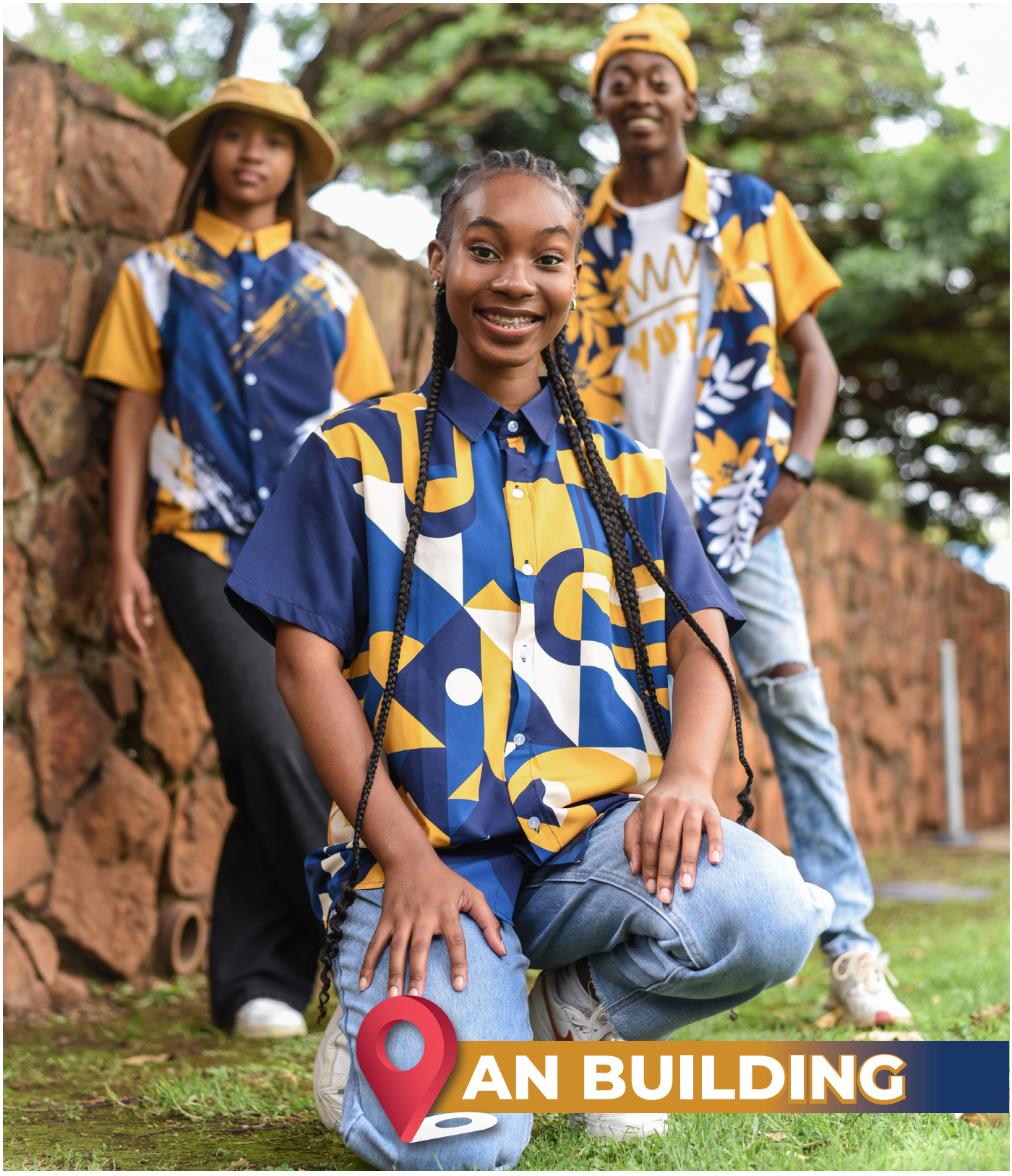
Engineering & Technology
Beatle Green represents Nature, Environment, Health & Renewal

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.

mavuti SHOP



COUNCIL MEMBERS

INTERNAL MEMBERS

Prof SK Ndlovu

Dr S Nelana

Prof CJ Grobler

Prof C Mafini

Ms N Khumalo

Mr E Mofokeng

EXTERNAL MEMBERS:

Prof M J Radebe

Ms JB Manche

Dr CM Kganakga

Mr S Khanyile

Mr M Fuzani

Mr T Zororo

Mr M Sangweni

Mr TL Marumule

Ms P Mvana

Mr N Nxasana

Ms O Marakalla

Mr R Gaoraelwe

Mr S Mlauzi

VAAL UNIVERSITY OF TECHNOLOGY

WELCOME TO CONVOCATION / ALUMNI NETWORK

VUT™ ekhaya alumni

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Alumni Relations
Marketing and Communications
Telephone +27 (0)16 950 9973
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Mr Comfort Madalane
Pre-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.

VAAL UNIVERSITY OF TECHNOLOGY

ABOUT CONVOCATION OF THE VAAL UNIVERSITY OF TECHNOLOGY

Mr Makhosonke Sangwenyi
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Mr David Matsaung
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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.