

NELSON MANDELA  
UNIVERSITY

Autumn Graduation  
**April 2024**

Ceremony 16

Faculty of Engineering, The Built Environment  
and Technology

22 APRIL 2024 | 14:30



## **VISION**

To be a dynamic African university, recognised for its leadership in generating cutting-edge knowledge for a sustainable future

## **MISSION**

To offer a diverse range of life-changing education experiences for a better world

## **VALUES**

Excellence

Respect for Diversity

Ubuntu

Social justice and equality

Integrity

Sustainable stewardship





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## OUR BRAND

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### We are Nelson Mandela University

Together we are **Nelson Mandela University**. We are the only university in the world to be named after Nelson Mandela. Our iconic South African statesman, humanitarian and leader is known globally for what he achieved.

We are honoured as **Nelson Mandela University** to carry his name. In return, we honour our namesake by endeavouring to live his legacy. We honour him by using his name in full.

We are **Nelson Mandela University**.

Saam is ons **Nelson Mandela Universiteit**. Ons is die enigste universiteit ter wêreld wat na Nelson Mandela vernoem is. Ons ikoniese Suid-Afrikaanse staatsman, humanitêre figuur en leier, is wêreldwyd bekend vir wat hy bereik het.

Ons is geëerd as **Nelson Mandela Universiteit** om sy naam te dra. In ruil daarvoor, eer ons ons naamgenoot deur daarna te streef om sy nalatenskap uit te leef. Ons eer hom deur sy naam ten volle te gebruik. Ons is **Nelson Mandela Universiteit**.

Sisonke **siyiNelson Mandela University**. Siyeyona kuphela kweyunivesithi ehlabathini ethiywe ngoNelson Mandela. Isiswenye sethu nowayesakuba nguMongameli woMzantsi Afrika, onesisa nokwayinkokheli waziwa kwihlabathi jikelele ngenxa yowakuzuzayo.

Siziva siwongekile **njengeNelson Mandela University** ukuthwala igama lakhe. Ngokwembuyekezo, siphakamisela phezulu ugama wethu ngokuzama ukuphila kumzila wakhe.

Siphakamisela phezulu ngokusebenzisa igama lakhe ngokupheleleyo. **SiyiNelson Mandela University**.



## Our logo

We developed a modern, font-based logo to communicate a forward-thinking concept. With its dynamic African feel, it sets Nelson Mandela University apart from its competition. The use of the circle and the triangle in the name creates a playful feel while alluding to ingenuity and creativity - two vital ingredients for change.

The colour palette was specifically chosen to reflect the University values and to add gravitas to the logo. We opted for blue, as it symbolises heritage, strength and trustworthiness. The bright yellow was chosen to add approachability, freshness and warmth.



ELA

UNIVERSITY



## CONGRATULATORY MESSAGE

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*Dr Geraldine Fraser-Moleketi  
Chancellor*

Graduation is a significant milestone in life. It is the culmination of an academic journey that reflects your ambition, determination, commitment, perseverance, and demanding work. We know that this journey is not yours alone, as many have travelled with you. These are your friends, your lecturers, supervisors, mentors, and your family. They have invested in you financially, guided your studies and encouraged you to keep going. But above all, they have believed in your ability to succeed and achieve this graduation dream.

Today we celebrate not only what you have achieved, but what this promises going forward in terms of your potential as a graduate and alumnus of Nelson Mandela University.

Your education is your passport to the future – and the future hopes of our country and continent. Indeed, education is the foundation to a better world. Or, as Nelson Mandela so eloquently put it:

“*Education is the most powerful weapon which you can use to change the world.*”

Your joy is our joy too.

We salute and applaud your achievement and wish you every success for your future endeavours, wherever they may take you.

Congratulations!

Uthweswo zidanga ludumo olubaluleke kunene ebomini. Yinkcochoyi kuhambo lwemfundo enomsila echaza ukunxanwa kwakho, ukuzimisela, ukuzinikela, ukunyamezela kwanomsebenzi otya ixesha. Siyayazi ukuba olu hambo asilolwakho kuphela, nanjengoko uninzi luthw lwakhenketha nawe. Abo ngabahlobo bakho, abahlohli bakho, amakhankatha, abacebisi, kwakunye nosapho lwakho. Batyale imali kuwe, bekukhokela kwizifundo zakho ze bakukhuthaza ukuba uqhubeke uye phambili. Kodwa ngaphezulu konke, baye bakholelwa kumandla wakho okuphumelela nokuzuza eli phupha lothweswo sidanga.



Namhlanje sibhiyozela hayi nje othe wakuzuza, kodwa okulithemba lokuqhubekela phambili mayelana namandla owathweleyo njengothweswe isidanga kwaye ebengumfundi waseNelson Mandela University.

Imfundo yakho litikiti lakho elikukhokelela ebomini – kwaye ubomi obulithemba lelizwe nezwekazi lethu. Ngaphandle kwamathandabuzo, imfundo, sisiseko sehlabathi elingcono. Okanye, njengokuba eyibeka ngokucace gca uNelson Mandela xa esithi:

“*Imfundo lelona krele lakhe lanamandla ongathi ulisebenzise ukutshintsha ihlabathi.*”

Uvuyo lwakho luvuyo lwethu nathi.

Sikothulela umnqwazi kwaye sikuqhwabela izandla ngenzuzo yakho futhi sikunqwenelela impumelelo nakuso nasiphi na isigaba seenzame zobomi bakho, naphi na apho singakusa khona.

#### Huntshu!

Gradeplegtigheid is 'n belangrike mylpaal in die lewe. Dit is die hoogtepunt van 'n akademiese reis wat jou ambisie, vasberadenheid, toewyding, deursettingsvermoë en veeleisende werk weerspieël. Ons weet dat hierdie reis nie joune alleen is nie, aangesien baie mense saam met jou gereis het, jou vriende, jou lektore, toesighouers, mentors en jou familie. Hulle het finansieel in jou belê, jou studies gelei en jou aangemoedig om voort te gaan. Maar bowenal het hulle geglo in jou vermoë om sukses te behaal en hierdie droom om te gradueer te bereik.

Vandag vier ons nie net wat jy bereik het nie, maar ook dit wat dit vorentoe beloof in terme van jou potensiaal as 'n gegradueerde en alumnus van die Nelson Mandela Universiteit. Jou geleerdheid is jou paspoort na die toekoms – en die toekomshoop van ons land en kontinent. Inderdaad, onderwys is die grondslag vir 'n beter wêreld. Of soos Nelson Mandela dit so welsprekend gestel het:

“*Onderwys is die magtigste wapen waarmee jy die wêreld kan verander.*”

Vandag is jou vreugde ook ons vreugde.

Ons salueer en loof jou prestasie en wens jou alle sukses toe vir jou toekomstige ondernemings, waar hulle jou ook al mag neem.

Veels geluk!



*Professor Sibongile Muthwa  
Vice-Chancellor*

## OUR CHANCELLOR, VICE-CHANCELLOR AND CHAIR OF COUNCIL

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Meet **Dr Geraldine Fraser-Moleketi**, whose experience, commitment and heart for the continent's social and economic transformation are aligned with the goals of Nelson Mandela University.

Throughout her exemplary career, our Chancellor has worked for economic growth that is more sustainable. She has worked in inter-governmental structures, interacted with political leaders, business leaders and civil society, and has been involved in complex negotiations across different issues and sectors.

The titular head of our institution was previously Director of the United Nations Development Programme's (UNDP) Democratic Governance Group (DGP), based in New York, working across six regional centres in more than 100 countries.

Dr Fraser-Moleketi was Minister for Welfare and Population Development in South Africa's first democratic government and went on to serve as a member of the South African Parliament for three consecutive parliaments (1994 through September 2008).

Some of Chancellor's early achievements include participation in the multi-party negotiation process and as Deputy National Coordinator of the ANC's National Elections Commission ahead of the country's first democratic elections.

Our Chancellor serves on various boards, is a fellow of the Institute of Politics, Kennedy School of Government, at Harvard University, holds a master's degree in administration, and has received several awards, including the OP Dwivedi Public Service Award from the International Association of Schools and Institutes of Public Administration.



**Professor Sibongile Muthwa** is the Vice-Chancellor of Nelson Mandela University. Her second five-year term of office began in April this year.

Professor Muthwa holds a PhD from the School of

Oriental and African Studies, University of London, and an MSc in Development Policy and Planning from London School of Economics and Political Science. The Vice-Chancellor has enjoyed a distinguished career both in South Africa, and internationally, working in both development and public sector institutions, as well as in academia. Between 2010 and 2017 she was the Deputy Vice-Chancellor for Institutional Support, now known as People and Operations, at Nelson Mandela University.

Professor Muthwa served as the Chairperson of Universities South Africa [USAf] a membership organisation representing all South Africa's universities, that promotes and facilitates optimum conditions for universities to operate effectively and contribute to social, cultural and economic development.

She further serves on the Presidential Human Resource Development Council. Prior to joining the University, she served as Director General of the Eastern Cape Provincial Government [2004 and 2010]. Upon her return to South Africa, before joining government, she was Director of the Fort Hare Institute of Government.

She is deeply committed to gender justice, social inclusion and active democratic participation, and accordingly serves on a number of Boards and advisory structures, including from 2014 as a Commissioner of the Financial and Fiscal Commission, and served as its Deputy Chairperson from 2017-2019.

The Nelson Mandela University Council appointed **Ambassador Nozipho January-Bardill** as Chairperson of Council, the institution's highest decision-making body, in October 2017. She is currently serving her second term.

Ambassador January-Bardill's appointment as Council Chair was momentous, as she was the University's first black African female to take up the position.

She is an independent non-executive director of Mercedes Benz SA, the MTN Foundation, and two NGOs, Tshwaranang Legal Services (for women who are victims of gender-based violence) and Phenduka Literacy (for under-educated primary school pupils in Alexandra Township). In 2021 she was appointed to the

Board of Trustees of the United Nations Voluntary Fund for Technical Assistance and the Implementation of the Universal Periodic Report (UPR) in the office of the UN High Commissioner for Human Rights. Her own company Bardill and Associates advises companies on integrating race, gender and sustainable development into their business strategies and building cultures to end sexual harassment, bullying and GBV.

Ambassador January-Bardill served as SA's Ambassador to Switzerland, Lichtenstein and the Holy See as well as Deputy Director General, responsible for Human Resources and the Foreign Service Institute in the South African Department of Foreign Affairs. She was interim Chief of Staff and special advisor to UN Women and the UN Environmental Programme (UNEP) respectively.

Four years as Corporate Affairs Executive at MTN Group, the largest and most diverse mobile telecommunications company in Africa, exposed her to executive leadership in the private sector at home and on the continent, and the challenges of creating a human rights culture in business.

Ethical leadership and governance, social justice and sustainable development are central to her life and work.



# WE ARE NELSON MANDELA UNIVERSITY

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As a socially embedded African university in the service of society, we offer a range of life-changing educational experiences, impactful research and innovation, and transformative engagement.

These academic core missions are rooted in and informed by recent milestones in the University's history, such as the 2017 name change to Nelson Mandela University, the Vice-Chancellor's listening campaign, inaugural and Advancing Mandela addresses, and a transversal organisational redesign process.

We offer quality higher education to nearly 32 000 students across seven campuses, making us the largest university in the Eastern and Southern Cape.

## What we offer

Nelson Mandela University is a comprehensive university that offers both general formative and professionally orientated academic programmes from certificate to doctoral level.

We have a strong track record in both fundamental and applied research, working extensively in partnership with business, industry, government, and civil society. The institution has 500 study programmes across

seven faculties that are internationally recognised and accredited by the relevant professional bodies. State-of-the-art IT services include WiFi connectivity across all campuses and in numerous off-campus facilities, as well as advanced technological resources and digital aids geared to effective in-person and blended modes of learning and teaching.

Along with a first-class academic education, Nelson Mandela University provides students with a vibrant student life beyond the classroom.

## Our campuses

Our seven campuses have a large, ever-increasing footprint, with six in Gqeberha and one in George.

Of these, four are in Summerstrand, one in Bird Street in Central, and one in Missionvale. Our North and South campuses in Summerstrand are located on an 840-hectare private nature reserve.

Our George Campus is on the Garden Route, midway between Nelson Mandela Bay and Cape Town. Set at the foot of the Outeniqua Mountains, our "sustainability" campus is where our ecological footprint meets business acumen for a sustainable future.



## FAST FACTS

**7** **CAMPUSES**  
 North, South, Ocean Sciences, Second Avenue  
 (in Summerstrand) Missionvale (Missionvale), Bird  
 Street (Central), George (George Campus in the  
 Garden Route)



**404**  
**PROGRAMMES**

with headcount enrolments for 2024 thus far (19 March 2024)

**7** **FACULTIES**  
 (Business and Economic Sciences;  
 Education; Engineering, the Built  
 Environment and Technology; Health  
 Sciences; Humanities; Law and Science)



**32 178**  
**HEADCOUNT ENROLMENTS**

**6** **INSTITUTIONAL  
 RESEARCH  
 THEMES**

**2 436**  
**PERMANENT EMPLOYEES**



**STRATEGIC FOCUS AREAS**

  
**640**  
**INTERNATIONAL  
 STUDENTS**



**39**  
**DIFFERENT  
 COUNTRIES**

## REASONS TO BE PROUD

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Various ground-breaking projects, awards and achievements have given Nelson Mandela University and its staff and students reason to be proud, some of which are included below:

### *Winning designs*

Architecture student **Luzuko Funda** won the annual national 2022 Corobrik Student Architecture Awards. He is the fourth winner from Mandela University over the past five years, keeping the tradition strong.



### *Spreading the Mandela brand*

Social media is positively extending and entrenching the Mandela University brand as confirmed by the University's success as a winner of the **International Digital Communication Awards**.

Sharing the joys of this year's Autumn Graduation season, the institution's Communication and Marketing department substantially exposed the Mandela University brand into Africa and internationally to win the small budget campaign category.

Its social media posts were displayed over 15.5 million times to users (up by 112%) and generated over 1.9 million engagements (up by 348%) compared with 2022. Its video views grew by 678% to over 4.1 million.

Three of its Facebook videos had over 1.5 million impressions, with one reaching 4.7 million impressions and over 900 000 engagements, while one on Instagram had over a million impressions.

## ***Science achievers***

**Professor Janine Adams** (left image) and doctoral student **Carla Dodd** (right image) both received recognition for their groundbreaking water research at the South African Women in Science Awards ceremony.

Professor Adams, who holds the DSI/NRF Research Chair for Shallow Water Ecosystems and is deputy director for the Institute for Coastal and Marine Research, is the winner of the DSI Distinguished Woman Researcher in Natural Science and Engineering.

Carla, a doctoral student in Geosciences, was awarded the DSI-Ndoni Mcunu Fellowship: Doctoral Award for her pioneering research on groundwater resources.



## ***A medical school making a difference***

Our programme to train MBChB graduates in Gqeberha is the first and only medical school in the western part of the province. Intentionally anchored in Missionvale to engender urban renewal and regeneration, it is set to make a tangible contribution

to building capacity for accessible healthcare service delivery through its emphasis on primary health care.



## ***Ocean Sciences: Growing the blue economy***

Nelson Mandela University has embraced the United Nations declaration of the Decade of Ocean Science for Sustainable Development from 2021 to 2030.

With South Africa's coastline spanning approximately 3000km and bordered by three oceans, the University is perfectly placed to contribute to and benefit from this blue decade.

Nelson Mandela University has developed a range of ocean sciences education and training, research, innovation and engagement programmes to support the blue economy nationally and on the African continent. Nelson Mandela University was ranked as the top institution in South Africa for UN Sustainable Development Goal Four: Life Below Water in 2022.



Our overarching ocean sciences strategy is underpinned by the following objectives:

- Advancing inter- and transdisciplinary synergies to promote learning, teaching, research, innovation and engagement “where art meets science”
- Promoting social, economic, and environmental sustainability
- Developing and maintaining mutually beneficial and collaborative partnerships with civil society, industry, government, and other postschool educational institutions nationally and internationally
- Positioning the University to be a destination of choice for ocean sciences nationally and on the African continent.

[See more on Ocean Sciences at Mandela.](#)

### ***Ocean Sciences awards***

Nelson Mandela University has won five national and international infrastructure awards for the new extensions to its Ocean Sciences Campus in Summerstrand.

The University’s new triple-storey E Block with its aesthetically appealing, dedicated research spaces, specialised laboratories and signature dive tank, received high praise from judges in four competitions recently.

Infrastructure services and space optimisation deputy director Graham Gouws said as the only higher education institution in SA with a dedicated ocean sciences campus, Mandela University was home to a range of ocean sciences education and training, research, innovation and engagement programmes.

“These awards speak to our commitment to advance our scientific contribution to ocean sciences globally by developing fit-for-purpose spaces that meet this need,” Gouws said.

The new R54m wing built from department of education funding is part of the University’s commitment to the United Nations’ sustainability development goals relating to the sea.





## ***State-of-the-art Science Centre***

The University's new Science Centre, on its Ocean Sciences Campus, will serve as a dynamic education hub catering to learners, students, scholars, academics and the wider public.

The state-of-the-art Centre, which was officially launched by the Minister of Higher Education and Training Professor Bonginkosi Emmanuel Nzimande on 15 March this year, was established as an expression of Nelson Mandela University's commitment as an engaged institution.

The R54-million building, funded by the Department of Higher Education and Training's Infrastructure Efficiency Grant, is dedicated to using its resources, platforms, students, and staff in pursuit of building a learning society that embraces social justice.

In short, the University is set on making science accessible to the public. It's here, in what is the most sophisticated digital dome of its kind in the country to date, that scientists will share complex concepts with the public, engage in discussions

and host interactive exhibitions and conferences. The centrepiece, a 15-metre digital dome/auditorium, offers a unique immersive space for learning and visualising spatial models in an engaging and entertaining format. It is akin to an IMAX theatre, but on a grander scale, fully enveloping the viewer.

School learners who visit will enjoy a comprehensive tour, including a fully immersive show featuring videos showcasing topics such as life underwater or the potential for life in outer space.

## ***Pioneering inclusive education with coding programme for the digital age***

Mandela University is at the forefront of inclusive education and coding through its pioneering initiative, the Tangible Africa programme, which began in 2017 as a mobile app developed at the institution.

Computer Science student Byron Batteson's honours project has morphed into today's programme that transforming the educational landscape by empowering disadvantaged students to take up successful careers in coding.

In today's increasingly digital world, coding plays a central role in our lives, with the demand for online solutions, applications, and digital innovations skyrocketing. As the digital age advances, the role of software developers in shaping our future becomes indispensable.

Professor Jean Greyling, Head of the Department of Computing Sciences at Nelson Mandela University and the Tangible Africa Programme Founder, says: "While technologies like ChatGPT and AI are enhancing productivity, they will never replace the problem-solving abilities of skilled software developers."

He says software development is essential for a nation's innovation capacity, with many South African software companies exporting their products to Europe and America.

However, South Africa faces several challenges in promoting coding education. Over 16 000 schools lack computer labs, and many of the existing labs are non-functional. The shortage of qualified coding teachers compounds the issue, and there is a diminishing pool of matric learners with strong mathematical abilities - a critical prerequisite for coding.

Mandela University, through its Tangible Africa Programme, is addressing these challenges head-on. Launched in 2017, this initiative uses innovative methods to teach coding concepts, even in settings without access to computers, the internet, or electricity. Learners work collaboratively, solving challenges using physical puzzle pieces, thereby developing critical problem-solving skills.

The Tangible Africa Programme focuses on specific domains such as game poaching (RANGERS) and marine themes (BOATS), making coding education more engaging and accessible to diverse groups of students. New domains that will be introduced soon will be soccer and Formula 1 racing.

To date over 30000 teachers and other facilitators have been trained across Africa, and now also Europe. More than 100 000 learners benefitted from the programme, thanks to the collaboration with the Leva Foundation to address educational gaps and foster job creation and entrepreneurship.

"We are changing the African narrative. A product made in Africa for Africa is now being used in Africa and beyond," says Prof Greyling.



## OUR HISTORY

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The former institution was formed in 2005 as a result of the merging of the PE Technikon, the University of Port Elizabeth and the Port Elizabeth campus of Vista University (Vista PE).

The PE Technikon has its roots in the country's oldest art school, the PE Art School founded in 1882; the University of Port Elizabeth (UPE), the country's first dual-medium residential university, came into being on 31 January 1964; and the Port Elizabeth campus of Vista University, which opened up access to higher education for disadvantaged students.

The union of these institutions was part of countrywide restructuring of higher education, intended to deliver

a more equitable and efficient system to meet the needs of South Africa, the continent and the world in the 21st century. Founded on more than a century of quality higher education, Nelson Mandela University nurtures innovation, fosters creativity, embraces technology and develops people to meet the challenges of tomorrow.

Today, Nelson Mandela University is the only university in the world to carry the name of Nelson Rolihlahla Mandela, is a sought-after educational destination and the most diverse university in South Africa.

A full history of the institution is available on our website, along with insights into our namesake.



# Office-Bearers of the University

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## **CHANCELLOR**

Dr GJ Fraser-Moleketi: MAdmin (*Cum Laude*) (UP), DPhil (*honoris causa*) (Nelson Mandela University), DPhil (*honoris causa*) (NWU)

## **CHAIRPERSON OF COUNCIL**

Ambassador NP January-Bardill: BA, Cert in Ed (UBL), MA (Essex University, UK), Dip HR Management (Damelin) Doctor of Laws (*honoris causa*) (Glasgow Caledonian University)

## **VICE-CHANCELLOR**

Prof SW Muthwa: BA (SW) (Fort Hare), BA (SW) Hons (Wits), MSc, PhD (London University, UK)

## **DEPUTY VICE-CHANCELLOR: ENGAGEMENT AND TRANSFORMATION**

Prof A Keet: BA, HDE, BEd, MEd (*Cum Laude*) (UWC), PhD (Edu Manag, Law and Policy) (UP)

## **DEPUTY VICE-CHANCELLOR: LEARNING AND TEACHING**

Dr SF Moeng: BA, HDE, BEdHons (UPE), MSc (St Cloud State University, USA), DEd (NMMU)

## **DEPUTY VICE-CHANCELLOR: PEOPLE AND OPERATIONS**

Mr LP Jack: NDip (PMA) (EC Technikon), BTech (PM) (PET), BAPhil (US), MCom (UKZN)

## **DEPUTY VICE-CHANCELLOR: RESEARCH, INNOVATION AND INTERNATIONALISATION**

Prof HR Lloyd (Acting): BCom (UPE), BComHons (UPE), MCom (UPE), DCom (UPE)

## **DEAN OF STUDENTS**

Dr BK Sebake (Acting): NDip (PM) (TUT), BTech (PM) (UNISA), MTech (PM) (TUT), D (PA) (Monitoring and Evaluation) (TUT)

## **EXECUTIVE DIRECTOR: FINANCE**

Mr MR Monaghan: BCom (UPE), BComHons (UNISA), Professional Accountant (SA)

## **REGISTRAR**

Mr EB De Koker: BA (UCT), BAHons (UNISA), MA (Pub Admin) (University of Warwick, UK)

## **PRESIDENT OF ALUMNI ASSOCIATION**

Mr S Hlwatika: LLB (NMMU), PGDip (Labour Law Practice), LLM (Labour Law) (Nelson Mandela University)

# Executive Deans of Faculties

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## **BUSINESS AND ECONOMIC SCIENCES**

Prof MR Mey (Acting): NH Dip (Mgt Prac) (PET), BCom (UPE), BCom Hons (UNISA), MTech (PET), DTech (HRM) (NMMU), MIPM, RPP

## **EDUCATION**

Prof HH Sathorar (Acting): BCom, HDE (*Cum Laude*), BEd Hons (*Cum Laude*) (UPE), MBA (*Cum Laude*) (NMMU), PhD (Nelson Mandela University)

## **ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY**

Prof M Sheldon: BTech BA, DEng (Chemical Engineering) (CPUT), Pr Tech Eng

## **HEALTH SCIENCES**

Prof Z Zingela: MBChB (Natal), FCPsych (SA), MMed (UP), PhD Psychology (Nelson Mandela University)

## **HUMANITIES**

Prof P Maseko: BA, BAHons (UWC), MA, PhD, PGDip in Higher Ed (RU)

## **LAW**

Dr L Biggs: BCom (Law), LLB (UPE), LLM (Labour Law) (*Cum Laude*), LLD (NMMU)

## **SCIENCE**

Prof ZR Tshentu (Acting): BScHons (UPE), MSc (UPE), PhD (NMMU)

## **DEAN OF LEARNING AND TEACHING**

Dr P Kota-Nyati: BA (Vista), BAHons, MA Couns Psych (UPE), DPhil (Nelson Mandela University)

# Order of Proceedings

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## **Entrance of Academic Procession**

## **Moment of Silence**

## **Constitution of Congregation and Welcome**

Vice-Chancellor

## **Choral Item**

Nelson Mandela University Choir

## **Awarding of Qualifications**

Vice-Chancellor

## **Conferring of Doctoral Degrees**

Vice-Chancellor

## **Message of Congratulations and Dissolution of Congregation**

Vice-Chancellor

## **National Anthem**

(The congregation is requested to stand for the singing of the National Anthem)

## **Departure of Academic Procession**

(The congregation is requested to remain standing until the academic procession has left the hall)

\* The words *Cum Laude* indicate that the diploma or degree is awarded with distinction to the candidate/s

## FACULTY OF ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY

### DIPLOMA IN ARCHITECTURAL TECHNOLOGY

BEZUIDENHOUT, Dallas  
BOTH, Marlese  
GODWANA, Miso  
GQADUSHE, Akhanani  
GROSSE, Adam John  
HENSBERG, Taryn  
JWILI, Yamkela Sikhusele  
KILIAN, Monique  
MKHONKQO, Sinothando  
MONYANE, Steven Dumisani  
MQINGWANA, Cwangco  
NAGADU, Travis  
NDLEBE, Athandwe Luncutu  
NEL, Pieter Cornelis  
NETHENGWE, Mukonanyi  
NGCOBO, Sthembiso Sibusiso  
SOLOMON, Noa Danielle  
VERMAAK, Jetsia Sharon  
VILJOEN, Sarah  
VISAGIE, Ewahn  
ZEMBETHA, Siyabonga  
ZWANE, Thabiso Khaya

### DIPLOMA IN BUILDING

ASARE-BAAH, Attah Kofi  
BETELA, Anga  
BUTHELEZI, Inga  
BUZI, Lindiwe Catherine  
CLARKE, Nicholas Maurice  
DE KLERK, Cody Jayde  
DILA, Wandile Sihle  
DUBAZANE, Ndumiso  
ERASMUS, Craig  
HALAHALA, Matseko  
HAWU, Ziphonzonke  
HOFFMAN, Ricardo Jayson  
JAM JAM, Oko  
JOJOZI, Zimkhitha  
KHESWA, Siyabonga  
KOZA, Likho  
LAYITI, Azizipho  
LESHIBA, Khomotso  
LUPHONDO, Sivenathi  
MABUSELA, Samkelo  
MADIKANE, Sisipho  
MAFETHE, Marytude Amogelang  
MAGOBIYANE, Yonela  
MAHLANGU, Makoma Millenium Rosinah  
MAKGAKGA, Nare Josephine  
MALAHLA, Nande  
MAMBALU, Azola

MANYISANE, Ntsikelelo  
MATANDABUZO, Banele Kuhl  
MATI, Lisa  
MATSHOTYANA, Kuyakhanya  
MAY, Asemahle  
MAZWI, Qhayiya Sityalo  
MCANDA, Siphosenkosi Philasande  
MNAKANISO, Sibabalo  
MNDEBELE, Daniel Sithembiso  
MOILA, Mosibudi  
MOKOENA, Nomonde Nomfundo  
MTSI, Inathi  
MUILA, Vhulenda  
MULAUDZI, Precious  
NANGU, Yonela  
NCAMISANA, Samkelisiwe  
NCANYWA, Anelisiwe  
NDYUMBU, Oneziwe  
NEMBANZHENI, Takalani Junior  
NGOEPE, Bontle  
NGONONGONO, Luvuyo  
NJOTI, Yonela  
NOMANDLA, Sihle  
NOVELA, Confidence Tsatsi  
NTONDINI, Zimasa  
NTSHINGILA, Mondli  
NTULI, Asiphile  
NXWABE, Sakhumzi  
NYAMENI, Sisipho  
SOGONI, Sonke  
STEMELE, Sindisa  
TSETSE, Siyolisiwe Thulisiwe  
TYUTUZA, Kamva  
VAN RAYNER, Andre  
VOS, Damian  
VUSO, Nomthandazo  
XONTI, Cinga  
YOSE, Athenkosi  
ZINTO, Sinazo  
ZIWANE, Sihle

### *CUM LAUDE*

LUCAS, Karabo Reginah  
NIEHAUS, Mari

### DIPLOMA IN INTERIOR DESIGN

ABRAMS, Caleb Joshua Hamiton  
BADEROON, Razaan  
BASILA, Delice  
JURIES, Nasreen  
KUDYACHETE, Makavimbika  
LIMBADA, Azraa Cassim

MATABANE, Mmapilane Makgosi  
MNYENJWA, Avuyile  
QAMBELA, Lwazi  
SOFE, Lisakhanya Sibulele  
SPINKS, Cailin  
VANTYI, Entle Ziphonkosi

#### **CUM LAUDE**

VAN DER MERWE, Ilzé

#### **BACHELOR OF ARCHITECTURAL STUDIES**

BANDA, Tadiwanashe Hillary  
BARTLETT, Justin Robert  
BOWERS, Adam Thomas  
DIEDERICKS, Ricardo  
EKANDJO, Christofina Ndatale  
ENGELBRECHT, Enrico  
FERREIRA, Sonika  
GABADA, Avela  
GQAMANE, Oyama  
GULWA, Hlonela  
HALTERS, Rivaldo Chadlin  
HANDMAN, Josie  
HOYI, Lelethu  
IVESON, Kayla  
JANSE VAN RENSBURG, Theuns  
JONES, Kellan John  
MACHETE, Mokgeti  
MANZI, Asiphe  
NEL, Joshua  
NGCAKANE, Amahle  
O'CONNOR, Skye William Daniel  
OELOFSE, Tiane  
PRETORIUS, Coenraad  
SETZKORN, Zac Brent  
SMITH, Ruben Benjamin  
VAN LEEVE, Alyssa  
WALSH, Hein  
WHITE-PHILLIPS, Jazmyn  
WILLIAMS-JONES, Mark Ian  
ZITHA, Lunga Wandile

#### **BACHELOR OF ENGINEERING TECHNOLOGY IN CIVIL ENGINEERING**

BUDELI, Munei Akin  
DAVIRA, Hendrick  
GENGE, Tumelo Angel  
GOLIATH, Keiron Gerard  
KANDA, Byron Taropafadzwa  
LAGERDIEN, Mas'Ood  
LEBEA, Phetole Tebogo  
LEOPE, Joshdavid Noah  
LUVHIMBI, Ngelekanyo  
MAMBULU, Yamkela  
MBATHA, Bandile Banele Zanokuhle  
MBENGASHE, Kwanda Bamanye

MGEYANA, Lutho  
MOLEMA, Tshegofatso Benignity  
NDAWE, Malcolm Tafara  
NGCAKAZA, Azile  
NONGCULA, Sisonke  
NQABENI, Sivuyile  
NTSHINKA, Natasha Mutesi  
SIFANELO, Lwando  
TARAMBIWA, Paddington  
TSHITABIA, Vhuthuhawe  
VAVA, Luvo

#### **CUM LAUDE**

BARRY, Rachel  
ZHEMI, Arnold

#### **BACHELOR OF HUMAN SETTLEMENT DEVELOPMENT**

LESOTHO, Khotso  
LUJABE, Lethu Khakhaletu Khulile  
MBANJWA, Elungile  
MGUMANE, Zintle Zimkita  
MLANDU, Anathi

#### **BACHELOR OF SCIENCE IN CONSTRUCTION STUDIES**

DUMANI, Aviwe  
FENI, Buhlebetu Yonela Ramona  
HLAHENG, Thato  
HLATSHWAYO, Lindani Hector  
MATIWANE, Sinovuyo  
MBATHA, Sihle  
MCILONGO, Kuhle Gabriela  
MKANSI, Nkosinathi Mesuli  
MNENO, Masibulele  
MOHLOME, Likhabiso  
MTSELU, Ondela  
MYATAZA, Mawande  
NKWINI, Zusakhe Khumbulani  
NONDLAZI, Luvo  
NTSHIBA, Buhle Nangamso  
NXUMALO, Dzunani Dion  
SAYEDWA, Andisiwe  
TAINTON, Ryan Lawrence  
TSHAKA, Liziwe Sinoyolo Nwabisa  
XATI, Zamadlomo

#### **BACHELOR OF SCIENCE IN CONSTRUCTION ECONOMICS (QUANTITY SURVEYING)**

BEJA, Sakhiwo Rammoka  
FIEBIGER, Nathan Josh  
GOBA, Samukelisiwe Minenhle  
GWAMA, Mvelwentle Bulumko  
KOVU, Avuyisiwe Joy  
MADIKANE, Thembelihle Pretty



MAHLOKO, Ginah  
MAPELA, Mihlali  
MAPIYE, Dorothy Gamuchirai  
MASHANGANA, Victor  
MBINDA, Akhona  
MPHAKI, Kamogelo Mpenyane Matome  
NDLELIGOSO, Lukhanyo  
NDLOTYENI, Lindile  
NDYENGA, Lisa  
NZIMANDE, Bandile Mbulelo  
RASELEMANE, Mpho Veronica  
RICHTER, Reece Edwin  
SAGANDIRA, Gracious Ophah  
SIKO, Okuhle Qhayiya  
SIYEKA, Sive  
SMITH, Cassey-Jade Khaya-Leigh Clarish  
STANDER, Chavonne  
TICCHARIMA, Mitchelle  
TSHIPI, Tintela Mike  
ZULU, Bontle

**CUM LAUDE**

MINNAAR, Dylan Philip

**ADVANCED DIPLOMA IN ARCHITECTURAL DESIGN**

MAGWIRA, Theophany Anderson  
POTGIETER, Joshua Rufus

**ADVANCED DIPLOMA IN ARCHITECTURAL TECHNOLOGY**

DU TOIT, Paul Theunissen  
MCHWECHWI, Elethu  
MHLONGO, Lungihle  
YATES, Basil John

**ADVANCED DIPLOMA IN CONSTRUCTION MANAGEMENT**

BOWER, Warren  
DLAMINI, Vusimuzi  
IISA, Eric Okomol  
KNOETZE, Igme  
LAHER, Mohammed Eesaa  
MAGUQA, Yonela  
MALELE, Vutomi Valerie  
MALEPFANA, Hlonipho Etienne  
MEMANI, Melinda Sinentlantla  
MTHOMBENI, Selbourne Selby  
NCIPA, Anelisa  
NGANGALI, Sinesethu  
NGAVU, Ziyanda  
NTSUME, Lukhona  
SALIWA, Zibele Lomelele  
SIKO, Yonela  
VACU, Aphiwe Konke

VUTULA, Nosiphiwo  
XOSA, Ayabulela  
ZANTSI, Tina

**CUM LAUDE**

LANGA, Qhawe  
MNCONO, Iviwe

**ADVANCED DIPLOMA IN INTERIOR DESIGN**

BEKKER, Simoné Theresa  
DU PLOOY, Kendra  
DU TOIT, Nicole  
FISHER, Yane-Simone  
MARAIS, Anine  
VAN STADEN, Lauren  
VERWEY, Trinity Kay

**CUM LAUDE**

AGENBAG, Adèle  
ELS, Chrislyn

**ADVANCED DIPLOMA IN QUANTITY SURVEYING**

CHINN, Dylan  
CHINN, Keegan  
CHONCO, Linda Sibahle  
FUKUZANA, Sindiso  
GQOKOMA, Miso Siyamthanda  
HLONGWANE, Buyani Wendy  
JACK, Cebiso  
KGOETE, Tlou Kholofelo Jessicah  
MAKUBALO, Yolanda Caroline  
MANKWE, Karabo Ramathetje  
MATIWANE, Avela Zolani  
MATSHOBA, Mphumzi  
MBHALI, Zizipho  
MDUNYELWA, Sivenathi  
MHLARHI, Risuna Nadia  
NDWANDWE, Nosisa  
NGWADU, Lwanda  
NKAMBULE, Nkosinathi Emmanuel  
NYANGINTSIMBI, Aviwe  
QASANA, Sinelethu  
SIKOBI, Noluthando Sherintia  
SOKUTU, Xhanti Abonga  
SWENYANA, Aphiwe  
WILLEMSE, Waldo  
YEKO, Siphamandla  
ZENZILE, Athi

**CUM LAUDE**

MATHEBULA, Makungu Mamaila Florence  
MPHOQO, Ntsindiso  
MPUMLO, Sibahle  
MVANGO, Ntombizethu  
NTSHANGASE, Nozibusiso Candy

ZENANI, Siyasanga

### **BACHELOR OF ARCHITECTURAL STUDIES HONOURS**

AZIKU, Angella Birungi  
BOTHMA, Christiaan Johannes  
CHAUKE, Thabang Benedict  
DOUSE, Thapelo Angelo  
HUMAN, Wéhan  
JACOBSZ, Catharina Johanna (Joey)  
LAGARDIEN, Shakeelah  
MKHIZE, Nduduzo Lusanda Siphumelele  
MOTHETSI, Lehlohonolo Denis  
MULWAFU, Wapulumuka Sean  
NEL, Alissa  
NKINTI, Xhanti Kuhle  
PORNSS, Scott Jordan  
POTGIETER, Charné  
PUTTERGILL, Tristan Edward  
RABIE, Jean De Vos  
SMIT, Anika  
SMIT, Antoinette  
TOPAT, Gabriella  
VAN LOGGERENBERG, Aidan  
WIEHAHN, Bradley

#### ***CUM LAUDE***

MEYER, Ané

### **BACHELOR OF ENGINEERING TECHNOLOGY HONOURS IN CIVIL ENGINEERING**

BALOYI, Nyiko Angie  
CABBAGE, Obakeng Lawrence  
GQOBOKA, Lelethu Zezethu  
KWINTSHI, Khanyisa  
LUDUDE, Inga  
MAGONZA, Gerald  
MAKETE, Avhatakali Aluwani  
MARTIN, Joshua Andrew  
TYATYA, Xolani

#### ***CUM LAUDE***

MPINDA, Phikolomzi

### **BACHELOR OF SCIENCE HONOURS IN CONSTRUCTION MANAGEMENT**

SICWEBU, Ongama Nkcubeko

### **BACHELOR OF SCIENCE HONOURS IN QUANTITY SURVEYING**

BUKULA, Lisakhanya  
DHLAMINI, Lindiwe Carol  
DIAMOND, Asiziwe Sizeka  
DINGENI, Athule Serana  
FLANEGAN, Dane David  
HOMPA, Kobuso  
JOLOZA, Yolanda  
LUKHWE, Sesethu  
MAGOCOBA, Imihlali  
MAJOVA, Qiqa Nikitha  
MALI, Emihle  
MAQHUTYANA, Babalo  
MFULANA, Kuhle  
MTHI, Eva Iva Yonelisa  
NABISERE, Patricia Samalie  
NDLELA, Luyanda  
NTSALAZE, Okona Esethu Asiphe  
RAMUSI, Makgabo  
ROLS, Khaya  
SITETO, Ziyanda  
SITSHEKE, Sipehelele  
SODLAKA, Mihlali Sibahle Sandisiwe  
VOS, Aimeé  
YAWA, Khuselwa

#### ***CUM LAUDE***

ABBOTT, Storm Taylor  
CONWAY, Daniel John  
GERBER, Amoré  
MJILANA, Abongile Sineliso  
WANYOIKE, Anthony Kinyanjui

**MASTER OF ARCHITECTURE (PROFESSIONAL) (COURSEWORK)**

ABRAHAMSON, Abigail

Title of treatise:

*THE DESIGN OF AN ARCHIVE FOR KHOISAN HERITAGE IN BETHELSDORP*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Prof M Minguzzi

BAYNES, Joshua - **Cum Laude**

Title of treatise:

*THE DESIGN OF AN ADAPTIVE PRIMARY CARE CLINIC IN WELLS ESTATE, GQEBERHA*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Mr J Basson

BESTER, Ivan - **Cum Laude**

Title of treatise:

*THE DESIGN OF A SYSTEM FOR HOUSING PROVISION IN WALMER, GQBERHA*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Ms R Kotze

BURGER, Ferdinand

Title of treatise:

*THE DESIGN OF HOUSING FOR THE AGED IN SCHAUDERVILLE, GQEBERHA*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Ms R Kotze

CLOETE, Micaela

Title of treatise:

*THE DESIGN OF A FUNERARY SCAPE IN SOUTH END, GQEBERHA*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Prof M Minguzzi

CORDEIRO, Carlos Miguel

Title of treatise:

*THE DESIGN OF PASSENGER TERMINAL FACILITIES FOR THE EAST LONDON HARBOUR*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Mr G Eckley

DEYSEL, Zander Etienne

Title of treatise:

*THE DESIGN OF A YOUTH RESOURCE FACILITY IN MOTHERWELL, GQEBERHA*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Mr HB Tonga

GIBBONS, Edward David

Title of treatise:

*THE DESIGN OF A HYDROTHERAPY FACILITY AT THE DORA NGINZA HOSPITAL, GQEBERHA*

Supervisor: Mr AG Palframan

Co-supervisor: Ms R Kotze

---

JANSE VAN RENSBURG, Simone

Title of treatise:

*THE DESIGN OF A SCHOOL FOR THE VISUALLY IMPAIRED IN KWAZEKHELE, GQEBERHA*

Supervisor: Mr AG Palframan

Co-supervisor: Mr G Eckley

---

LALLA, Tirtha

Title of treatise:

*THE DESIGN OF AN ACADEMY FOR THE MERCHANT NAVY IN GATELY, EAST LONDON*

Supervisor: Mr AG Palframan

Co-supervisor: Ms R Kotze

---

MAHOMED, Ameen

Title of treatise:

*THE DESIGN OF ADDITIONS TO THE MASJID UL-AZIEZA IN SOUTH END, GQEBERHA*

Supervisor: Mr AG Palframan

Co-supervisor: Mr HB Tonga

---

MOKOMELE, Amogelang

Title of treatise:

*THE DESIGN OF A CONFERENCE CENTER IN THE CENTRAL KALAHARI GAME RESERVE, BOTSWANA*

Supervisor: Mr AG Palframan

Co-supervisor: Mr HB Tonga

---

NOGANTSHI, Siphesihle Cwayita

Title of treatise:

*THE DESIGN OF A BUSINESS DEVELOPMENT HUB IN KORSTEN, GQEBERHA*

Supervisor: Mr AG Palframan

Co-supervisor: Mr HB Tonga

---

RUST, Henco

Title of treatise:

*THE DESIGN OF A FISHING OPERATIONS FACILITY IN GQEBERHA HARBOUR*

Supervisor: Mr AG Palframan

Co-supervisor: Mr G Eckley

---

STIEMENS, Rees Lloyd

Title of treatise:

*THE DESIGN OF A ROWING EVENTS FACILITY IN PORT ALFRED, EASTERN CAPE*

Supervisor: Mr AG Palframan

Co-supervisor: Ms R Kotze

---

STRYDOM, Mieke

Title of treatise:

*THE DESIGN OF A PSYCHIATRIC CLINIC AT LIVINGSTONE HOSPITAL, GQEBERHA*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Ms R Kotze

SWANA, Asemahle Andisiwe

Title of treatise:

*THE DESIGN OF A GOVERNMENT RESOURCE CENTRE FOR FLAGSTAFF, EASTERN CAPE*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Mr BP Varghese

VAN DER MERWE, Willem Johannes Jacobus

Title of treatise:

*THE DESIGN OF A PALLIATIVE CARE CENTRE IN CENTRAL, GQEBERHA*

---

Supervisor: Mr AG Palframan

WATKINS, Cameron

Title of treatise:

*THE DESIGN OF AN EQUALITY COURT IN MAMELODI, PRETORIA*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Mr JRV Andrews

WILLIAMS, Gideon - **Cum Laude**

Title of treatise:

*THE DESIGN OF AN ARCHIVE AT KING'S BEACH, GQBERHA*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Ms R Kotze

YOUNG, Genevieve

Title of treatise:

*THE DESIGN OF A WASTE PROCESSING PLANT IN THEMBALETHU, GEORGE*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Mr J Basson

ZINGITWA, Eugene Thandolwethu

Title of treatise:

*THE DESIGN OF WATER PROVISION INFRASTRUCTURE FOR IMIZAMO YETHU, CAPE TOWN*

---

Supervisor: Mr AG Palframan  
Co-supervisor: Ms R Kotze

## **MASTER OF SCIENCE IN CONSTRUCTION ECONOMICS (RESEARCH)**

SIBANDA, Cynthia - **Cum Laude**

Title of dissertation:

*A SKILLS DEVELOPMENT FRAMEWORK FOR THE BUILT ENVIRONMENT*

---

Supervisor: Prof B Botha  
Co-supervisor: Mr RC Cumberlege  
Co-supervisor: Prof DA Els

**MASTER OF SCIENCE IN THE BUILT ENVIRONMENT (COURSEWORK)**

KHOZA, Zelda Shelly

*(Construction Health and Safety Management)*

Title of treatise:

**BARRIERS FACED BY WOMEN IN PUBLIC SECTOR LEADERSHIP ROLES**

Supervisor: Prof GJ Crafford  
Co-supervisor: Mrs K Crafford

---

MANCOTYWA, Luyolo Athini Zibele

*(Project Management)*

Title of treatise:

**TOTAL QUALITY MANAGEMENT AS A TOOL TOWARDS IMPROVING EASTERN CAPE'S DEPARTMENT OF PUBLIC WORKS CONSTRUCTION PROJECTS**

Supervisor: Mr WSG Draai

---

MBANGA, Abulele Zakhe

*(Project Management)*

Title of treatise:

**PROJECT MANAGEMENT DEFICIENCIES IN CONSTRUCTION IMPLEMENTED PROJECTS IN THE EASTERN CAPE**

Supervisor: Prof B Botha  
Co-supervisor: Dr EK Kabundu

---

MNGENI, Thandokazi Yvonne

*(Property Economics and Valuation)*

Title of treatise:

**VALUE MANAGEMENT IN GOVERNMENT CONSTRUCTION PROJECTS IN SOUTH AFRICA**

Supervisor: Prof N Harinarain

---

MOLOTSI, Obed Lucas

*(Property Economics and Valuation)*

Title of treatise:

**INVESTIGATING WAYS TO LIMIT WASTEFUL EXPENDITURE DUE TO PUNITIVE PROPERTY TAXES ON GAUTENG HOSPITALS**

Supervisor: Prof JHH Cruywagen

---

PILISO, Zhane Mary-Ann

*(Project Management)*

Title of treatise:

**THE EFFECTS OF LATE PAYMENT BY GOVERNMENT TO BUILDING CONTRACTORS**

Supervisor: Mr RC Cumberlege

---

PUTA, Mabelonke

*(Project Management)*

Title of treatise:

**GUIDELINES FOR IMPROVED COORDINATION OF PUBLIC WORKS PROJECTS IN BUFFALO CITY METRO**

Supervisor: Prof FA Emuze

---

## DOCTOR OF PHILOSOPHY IN CONSTRUCTION ECONOMICS

KARAMBAKUWA, Ngonidzashe

Title of thesis:

*THE PERFORMANCE OF SMALL CONSTRUCTION FIRMS IN SOUTH AFRICA UNDER THE COST LEADERSHIP STRATEGY*

Supervisor: Prof GJ Crafford

Co-supervisor: Prof T Moyo

---

## DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

BASSON, Jean-Pierre

Title of thesis:

*USING BUILDING INFORMATION MODELLING TO INITIATE CRITICALITY TO PROMOTE BUILT ENVIRONMENT STUDENT COLLABORATION AT THE NELSON MANDELA UNIVERSITY*

Supervisor: Prof JJ Smallwood

---

BUKULA, Mvuleni Joseph

Title of thesis:

*AN IMPLEMENTATION MODEL: PHOTOVOLTAIC APPLICATION FOR SUSTAINABLE ENERGY SUPPLY IN SOUTH AFRICA*

Supervisor: Prof B Botha

Co-supervisor: Prof DA Els

---

GOBE, Cynthia Bongwiwe Ntombikayise

Title of thesis:

*MULTI-PURPOSE COMMUNITY CENTRES AS CATALYSTS FOR SOCIO-ECONOMIC DEVELOPMENT IN EASTERN CAPE PROVINCE, SOUTH AFRICA*

Supervisor: Prof SL Mbanga

Co-supervisor: Prof B Botha

---

HLATSHWAYO, Thandiwe Ncamsile

Title of thesis:

*ENABLING LEGISLATIVE COHERENCE IN THE ESWATINI CONSTRUCTION INDUSTRY*

Supervisor: Prof FA Emuze

Co-supervisor: Prof JJ Smallwood

---

MNGOMEZULU, Sibongangani Khonelihle

Title of thesis:

*THE ROLE OF SOLID WASTE MANAGEMENT IN ECONOMIC DEVELOPMENT: A CASE OF NELSON MANDELA BAY METROPOLE, SOUTH AFRICA*

Supervisor: Prof SL Mbanga

Co-supervisor: Dr AA Adeniran

---

NOTUNUNU, Fezile

Title of thesis:

*A LEADERSHIP MODEL FOR SOUTH AFRICA'S INFRASTRUCTURE RELATED, STATE-OWNED ENTERPRISES*

Supervisor: Prof DA Els

Co-supervisor: Prof B Botha

---

SIMUKONDA, Wakisa

Title of thesis:

*MODELLING OFFSITE CONSTRUCTION TO CONTROL HAZARDS AND DIRECT COST OF ACCIDENTS*

Supervisor: Prof FA Emuze

Co-supervisor: Prof JJ Smallwood

---



## DOCTORAL CITATIONS

# THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION ECONOMICS

**NGONIDZASHE KARAMBAKUWA**

**Previous qualifications:**

2003	BSc (Hons) Sociology	University of Zimbabwe
2011	Master of Business Administration	University of Zimbabwe
2017	MSc Quantity Surveying	Nottingham Trent University, United Kingdom



**Thesis:**

*THE PERFORMANCE OF SMALL CONSTRUCTION FIRMS IN SOUTH AFRICA UNDER THE COST LEADERSHIP STRATEGY*

This study examined the performance of small construction firms in South Africa and established the specific significant strategies which support their performance under the cost leadership strategy. The strength of their association with firm performance was also quantified and this provided a framework for identifying relevant strategies to focus on by the owners and managers of small construction firms. Through structural equation modelling, this study established a matrix for implementing significant financial, human capital, innovation and technology strategies to support the performance of small construction firms.

Supervisor: Prof GJ Crafford  
Co-supervisor: Prof T Moyo

# THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

## JEAN-PIERRE BASSON

### Previous qualifications:

2007	Associate Diploma in Recorder Music	Trinity Guildhall College of London
2009	Licentiate Diploma in Recorder Music	Trinity Guildhall College of London
2009	Bachelor of Architectural Studies	Nelson Mandela Metropolitan University
2011	Master of Architecture (Professional)	Nelson Mandela Metropolitan University
2018	Master of Science in Construction Management	Nelson Mandela University



### Thesis:

*USING BUILDING INFORMATION MODELLING TO INITIATE CRITICALITY TO PROMOTE BUILT ENVIRONMENT STUDENT COLLABORATION AT THE NELSON MANDELA UNIVERSITY*

The study delves into the fragmented state of architectural, engineering, and construction education, highlighting the absence of interdisciplinary collaboration during architectural design projects. The study focuses on improving students' level of criticality based on critical reasoning, self-reflection, and critical action, which are essential for students to become 21<sup>st</sup> century citizens. It explores the impact of adopting a digital interdisciplinary collaborative Building Information Modelling (BIM) environment. A cohort comparison study involved the 2022 cohort adopting the traditional design process and the 2023 cohort adopting the BIM process, which entailed interdisciplinary collaboration. Coding cycles centred on linguistic acts, criticality, and Habersian validity claims. The findings showcase the BIM process's capacity to significantly enhance students' criticality, surpassing the traditional design process.

Supervisor: Prof JJ Smallwood

# THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

## MVULENI JOSEPH BUKULA

### Previous qualifications:

1997	Bachelor of Commerce Degree	Vista University
2005	National Diploma (Public Management)	NMMU
2008	Master's Degree in Business Administration	NMMU
2015	PGDip (Project Management)	Stellenbosch University - Business School



### Thesis:

*AN IMPLEMENTATION MODEL: PHOTOVOLTAIC APPLICATION FOR SUSTAINABLE ENERGY SUPPLY IN SOUTH AFRICA*

The Bukula Model was developed to provide a tool as a guide to be used by government entities that deals with the planning and delivery of regulatory matters on improving the renewable technologies implementation. Due to unreliability and frequent unavailability of energy supply in South Africa this research sought to advance the need to encourage the applications of photovoltaic (PV) power generation plants as a journey towards sustainable energy supply in South Africa. Furthermore, the goal intended to mitigate greenhouse gas emissions, through ramping up PV installations and protecting environment as compared to fossil fuel-based electricity supply.

Supervisor: Prof B Botha  
Co-supervisor: Prof DA Els

# THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

## CYNTHIA BONGIWE NTOMBIKAYISE GOBE

### Previous qualifications:

1987	Bachelor of Arts	University of Fort Hare
1989	Bachelor of Education	University of Fort Hare
1992	Masters in Education	University of Fort Hare
2004	Masters in Education Management	Nelson Mandela Metropolitan University
2012	Executive Leadership Programme	Nelson Mandela Metropolitan University



### Thesis:

*MULTI-PURPOSE COMMUNITY CENTRES AS CATALYSTS FOR SOCIO-ECONOMIC DEVELOPMENT IN EASTERN CAPE PROVINCE, SOUTH AFRICA*

This study examined the socio-economic impact of MPCCs in the Eastern Cape and explored how these centres can become a strategic stimulus for sustainable livelihoods in urban, rural, and peri-urban human settlements, including informal settlements. The study aimed to uncover factors that hinder the ability of MPCCs from becoming centres that support social cohesion, access to socio-economic facilities, government services and improve lives. Anchored on a Social Constructivism paradigm and leaning on combined Systems and Development Theories, the study adopted a Mixed Method research approach. The study revealed that despite the successful delivery of

MPCCs by the Department of Human Settlements, not much has been done to improve socio-economic opportunities to beneficiaries. It yielded a comprehensive strategy for the sustainability of functional and responsive MPCCs within existing and forthcoming housing projects and informal settlements. The suggested approach to MPCC implementation seeks to ensure that there is realisable socio-economic impact brought by MPCCs in municipal communities where they are constructed.

Supervisor: Prof SL Mbanga  
Co-supervisor: Prof B Botha

# THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

## THANDIWE NCAM'SILE HLATSHWAYO

### Previous qualifications:

2010 Bachelor of Law (LLB)  
2012 Admitted Attorney  
2015 Master of Laws (Corporate Law)

University of Eswatini  
High Court of Eswatini  
University of South Africa



### Thesis:

*ENABLING LEGISLATIVE COHERENCE IN THE ESWATINI  
CONSTRUCTION INDUSTRY*

The study explored and evaluated the effectiveness of the governing structure that regulates the construction industry in Eswatini. Focus was directed towards the Construction Industry Council (CIC), a sanctioned entity entrusted with the responsibility of overseeing the construction sector in Eswatini. The construction industry plays a pivotal role in the advancement of the economy, and a fragmented regulatory framework could result in grave consequences, not only for the industry itself, but also for the nation at large. The study proposed a framework that would guide the review of legislation, with the aim of enhancing the coherence of the existing framework.

Supervisor: Prof FA Emuze  
Co-supervisor: Prof JJ Smallwood

# THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

**SIBONGANGANI KHONELIHLE MNGOMEZULU**

**Previous qualifications:**

2012	National Diploma in Civil Engineering	Mangosuthu University of Technology
2019	Bachelor of Human Settlement Development	Nelson Mandela University
2020	Master of Science in Construction Management ( <i>Cum Laude</i> )	Nelson Mandela University



**Thesis:**

*THE ROLE OF SOLID WASTE MANAGEMENT IN ECONOMIC DEVELOPMENT: A CASE OF NELSON MANDELA BAY METROPOLE, SOUTH AFRICA*

Current waste management systems are unsustainable. Various theories of economic development and waste management were used and Circular Economy Model (CEM) was found more applicable. CEM highlights the relationship between waste management systems and economic development. In the Nelson Mandela Bay Municipality (NMBM), 4 significant factors that were found to positively influence waste to wealth were: social behaviour, education, economic feasibility and governance of Municipal Solid Waste Management (MSWM). This study's proposed framework can be used to achieve integrated solid waste management while permitting economic development in urban settlements and would be applicable in NMBM, South Africa and other countries.

Supervisor: Prof SL Mbanga  
Co-supervisor: Dr AA Adeniran

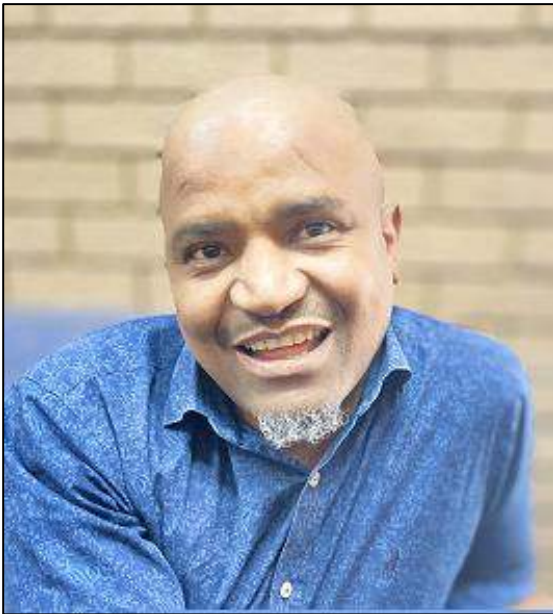
# THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

## FEZILE NOTUNUNU

### Previous qualifications:

2011 MSc  
2017 MBA

Davinci institute of Technology  
Nelson Mandela University



### Thesis:

*A LEADERSHIP MODEL FOR SOUTH AFRICA'S  
INFRASTRUCTURE RELATED STATE-OWNED  
ENTERPRISES*

The objective of this research was to create a leadership model designed specifically to address the challenges faced by South Africa's infrastructure-related, state-owned enterprises. These enterprises are currently experiencing leadership crises, which are further exacerbated by the global economic difficulties. An extensive analysis of leadership was conducted to ensure effective infrastructure management for these state-owned enterprises. To achieve this objective, the relationship between effective management and perceived success in infrastructure development was explored, as well as the relationship between effective planning and perceived success in infrastructure development within these enterprises. Additionally, the connection between

leadership training and perceived success in infrastructure development was investigated in the study. Quantitative research methods were employed to address these research objectives.

Supervisor: Prof DA Els  
Co-supervisor: Prof B Botha

















