



# Graduation Programme

The Future. Reimagined.





## Dear UJ Graduate

At the University of Johannesburg (UJ), graduation not only signifies an academic milestone but also represents the emergence of a new cohort of leaders. Our objective has been to empower you as leaders who are primed to face the challenges of an ever-changing world defined by a plethora of challenges and opportunities. As you navigate these great societal shifts, we hope that your time at UJ will serve as a constant source of reference and inspiration. As we have sought to demonstrate, the Fourth Industrial Revolution (4IR) presents the opportunity for the exploration of new and exciting spheres, and you are uniquely poised to navigate this terrain. Our focus at UJ has been to create graduates who are agile, curious, and able to be active participants against this backdrop.

Your graduation today serves as a celebration of this momentous achievement! I want to take this opportunity to remind you that you now represent the privileged few in our country. You are uniquely poised to address some of the serious challenges we face and a qualification from UJ will stand you in good stead!

At UJ, you have encountered the finest academic minds from diverse backgrounds, spanning across the world as well as innovative technology-rich approaches to teaching and learning. As a result, UJ's global stature and academic robustness are recognised by the most prestigious global higher education ranking systems in the world. UJ has become a competitive player, not only in South Africa but also on the continent. You are an important part of this story.

We welcome you as a new member of our esteemed alumni community, which is making a lasting impact on society. We encourage you to join the UJ Alumni Network and become an active member of the University Convocation, which affords you an opportunity to make a significant contribution to our academic projects and beyond. Our promise in return to you is that we will continue to build UJ as an international university of choice, anchored in Africa, dynamically shaping the future.

Congratulations on this significant achievement. We look forward to witnessing you reimagine the future!

**Prof Letlhokwa Mpedi**  
*Vice-Chancellor and Principal*  
*University of Johannesburg*

**Welcome to the  
Graduation Ceremony of the  
University of Johannesburg  
12 April 2023 at 09:30**

**Welkom by die  
Gradeplegtigheid van die  
Universiteit van Johannesburg  
12 April 2023 om 09:30**

**Le a Amogelwa  
Moletlong wa Dikapešo wa  
Yunibesithi ya Johannesburg  
12 Moranang 2023 ka 09:30**

**Niyamukelwa  
eMcimbini wokweThweswa kweZiqu  
weNyuvesi yaseJohannesburg  
12 kuMbaso 2023 ngele-09:30**

# **UNIVERSITY OF JOHANNESBURG**

## **CHANCELLOR**

Dr P Mlambo-Ngcuka

BA Ed (Lesotho), MPhil (UCT), DTech Ed (Warwick, England)

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B Juris, LLB (Vista), LLM (RAU), LLD (UJ)

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Prof S Khan

BSc, BSc Hons, MSc, PhD (UWC)

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BEng, MEng, PhD (UP)

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BSc, BSc Hons, MSc, PhD (UP)

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BSc Eng (Wits), MBA (UOVS), MSc, DBA (Heriot-Watt, UK)

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BA (Fort Hare), BA Hons (Rhodes), DTE (UNISA), MA (Wits),  
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## **GENERAL COUNSEL**

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BCom, LLB, LLM (NWU)

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## **COLLEGE OF BUSINESS AND ECONOMICS**

Prof L Ntsalaze

BCom, BCom Hons (NMMU), MPhil (UCT), PhD (SUN)

## **FACULTY OF ART, DESIGN AND ARCHITECTURE**

Prof D Smal (Acting)

NDip, NHDip Clothing (TP), MTech Fashion (TUT),  
DTech Design (CPUT)

## **FACULTY OF EDUCATION**

Prof N Petersen

BA Ed (UNISA), BEd Hons, MEd (RAU), DEd (UJ)

## **FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT**

Prof DJ Mashao

BSc Eng, MSc Eng (UCT), MSc AM, PhD (Brown, USA)

## **FACULTY OF HEALTH SCIENCES**

Prof A Temane (Acting)

BNSc (UNW), MCur (RAU), PhD (UJ)

## **FACULTY OF HUMANITIES**

Prof K Naidoo

BA, BA Hons, MA (UDW), DTE (Unisa), PhD (Manchester, UK)

## **FACULTY OF LAW**

Prof W Domingo

B SoSc (UCT), LLB (UWC), LLM (Columbia, USA),  
SJD (Wisconsin-Madison, USA)

## **FACULTY OF SCIENCE**

Prof R Meijboom (Acting)

M (Groningen, Netherlands), PhD (UCT)

## **DEAN**

## **JOHANNESBURG BUSINESS SCHOOL**

Dr R Carolissen

BSc, BSc Hons, MSc (UWC), BBA Hons,  
MBA (SUN), MCom (NWU), PhD (UWC)

## **MEMBERS OF COUNCIL**

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### **DEPUTY CHAIRPERSON**

Dr Y Ndema

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Mr FM Baleni

Ms S Dlamini

Ms K Gugushe

Prof D Hildebrandt

Ms K Khumalo

Ms B Madikizela

Mr M Mahlasela

Mr M Manana

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Dr A Mokoena

Ms N Molope

Prof LG Mpedi

Mr LM Mpunzi

Ms NP Mvubu

Dr WP Rowland

Ms JA Schreiner

Prof A Strydom

Mr T Thobejane

### **PRESIDENT OF CONVOCATION**

Mr LM Mpunzi



# GAUDEAMUS IGITUR

Gaudeamus igitur,  
Juvenes dum sumus;  
Post iucundum iuventutem,  
Post molestam senectutem  
Nos habebit humus.  
Vivat academia,  
Vivant professores,  
Vivat membrum quodlibet,  
Vivat membra quaelibet;  
Semper sint in flore!

## English

Let us rejoice, therefore,  
While we are young.  
After a pleasant youth  
After a troubling old age  
The earth will have us.  
Long live the academy!  
Long live the professors!  
Long live each student;  
Long live the whole fraternity;  
For ever may they flourish!

## Sesotho sa Leboa

Ka gona, a re thabeng,  
Re sa le ba bafsa.  
Ka morago ga bofsa bjo bo bose  
Ka morago ga go tšofala mo go nago  
le mathata  
Lefase le tla ba le rena.  
Phela thuto phela!  
Phelang diprofesa phelang!  
Phelang baithuti phelang;  
Phela kagišano ka botlalo phela;  
O ka re ba ka phela gabotse  
goyagoile!

## Afrikaans

Laat ons dan vrolik wees,  
Terwyl ons jonk is;  
Na 'n aangename jeug.  
Na 'n onaangename oudag,  
Sal die aarde ons hou.  
Lank lewe die universiteit,  
Lank lewe die professore,  
Lank lewe elke student,  
Lank lewe al die studente,  
Mag hulle vir ewig hul jeug behou!

## Zulu

Ngakho, masithokoze  
Sisebasha nje.  
Emva kobumnandi bobusha  
Emva kwezinkinga zobudala  
Umhlaba uzosithatha.  
Phambili ngemfundo!  
Phambili boSolwazi!  
Phambili nakuwe mfundi;  
Phambili ngenhlangano yonke;  
Maziqhubeke ngonaphakade!

# FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT QUALIFICATIONS

## 1. Diploma | National Diploma

**Selekane**, Kholofelo (Engineering: Chemical)

## 2. Bachelor's

**De Palo**, Schae Allan (Urban and Regional Planning)

**Lewis**, Tuello (Urban and Regional Planning)

**Madolo**, Gcobani Sikhonzile (Urban and Regional Planning)

**Mahlangu**, Mariaham Tebatso (Urban and Regional Planning)

**Manaka**, Nthlachi Johanna (Urban and Regional Planning)

**Manana**, Sipiwe Mfundo (Urban and Regional Planning)

**Masendi**, Tiisetso (Urban and Regional Planning)

**Mazibuko**, Bonakele (Urban and Regional Planning)

**Mdalana**, Karabo (Urban and Regional Planning)

**Mkhabela**, Sandisiwe Phindile (Urban and Regional Planning)

**Modibe**, Oarabile (Urban and Regional Planning)

**Mtshali**, Zabele Jethro (Urban and Regional Planning)

**Mtshoene**, Aphiwe-Mabhodla (Urban and Regional Planning)  
**Ncube**, Siyabonga Leeroy (Urban and Regional Planning)  
**Ngema**, Buyisiwe Petunia (Urban and Regional Planning)  
**Ngwenya**, Angel (Urban and Regional Planning)  
**Nkosi**, Vuyo Welcome (Urban and Regional Planning)  
**Nxumalo**, Nonduduzo (Urban and Regional Planning)  
**Phakathi**, Dingani (Urban and Regional Planning)  
**Rozana**, Anathi (Urban and Regional Planning)

### 3. Bachelor of Engineering Technology

**Baloyi**, Chavelela Caroline (Civil Engineering)  
**Botsi**, Remofilwe Didintle (Civil Engineering)  
**Chukwu**, Onyebuchi Kester (Civil Engineering)  
**Dinala**, Sello Thelly (Civil Engineering)  
**Dlamini**, Nomfundo (Civil Engineering)  
**Goba**, Joy Alvinah (Civil Engineering)  
**Hlaraka**, Steven Junior Sello (Chemical Engineering)  
**Jali**, Mthokozisi (Chemical Engineering)  
**Jiyana**, Dumisani Given (Chemical Engineering)  
**Jobodwana**, Lisakhanya (Chemical Engineering)  
**Kalemba**, Menelas Tshitamba (Civil Engineering)  
**Katanga**, Katende Coeurfils (Civil Engineering)  
**Kazad**, Magloire Tshipeng (Chemical Engineering)  
**Kgaditsi**, Lerato (Chemical Engineering)  
**Kgasago**, Paul Mogobo (Civil Engineering)  
**Ledwaba**, Pheeha Lucky (Civil Engineering)  
**Mabasa**, Mutalusi (Civil Engineering)

**Mabasa**, Sandile (Civil Engineering)  
**Mabaso**, Emmanuel Khayelihle (Civil Engineering)  
**Mabidikama**, Mpho Job (Civil Engineering)  
**Mabunda**, Ingenious Theodolite (Civil Engineering)  
**Madzingo**, Sam Dananai (Chemical Engineering)  
**Mafoko**, Tshenolo Johnson (Chemical Engineering)  
**Magabe**, Marangrang (Civil Engineering)  
**Mahlakoane**, Tshwarelo (Chemical Engineering)  
**Mahlobo**, Khayelihle (Civil Engineering)  
**Makhele**, Rethabile Hoantla Johannes (Civil Engineering)  
**Makhubela**, Laska (Civil Engineering)  
**Makofane**, Karabo Daniel (Civil Engineering)  
**Maluleka**, Kabaza (Chemical Engineering)  
**Mamosebo**, Thoko Tokelo (Chemical Engineering)  
**Mampana**, Thabang (Chemical Engineering)  
**Mangenge**, Destination Arendwaho (Chemical Engineering)  
**Manjere**, Natasha Fungai (Chemical Engineering)  
**Maphanga**, Gift (Civil Engineering)  
**Maqhiza**, Charmain Thoko (Chemical Engineering)  
**Marufu**, Kupakwashe Vanessa (Civil Engineering)  
**Mashabane**, Musa Sbusiso (Chemical Engineering)  
**Mashamaite**, Posise (Civil Engineering)  
**Mashapu**, Koketso Pheladi (Civil Engineering)  
**Mashigo**, Jessie Naledi (Civil Engineering)  
**Masindi**, Lilian (Chemical Engineering)  
**Masuku**, Ntando Knowledge (Chemical Engineering)  
**Maswanganyi**, Matimba Elton (Chemical Engineering)  
**Matabane**, Lethabo Kagiso (Civil Engineering)  
**Matebele**, Keletso (Civil Engineering)  
**Matemba**, Billie Takunda (Chemical Engineering)

**Mathebula, Brilliant** (Civil Engineering)  
**Mathebula, Musa** (Chemical Engineering)  
**Mathebula, Nelisiwe Thoko** (Civil Engineering)  
**Mathibeng, Sinky** (Civil Engineering)  
**Mathye, Permit** (Civil Engineering)  
**Mavaleliso, Vaneswa** (Civil Engineering)  
**Mdlangaso, Avuyile** (Chemical Engineering)  
**Mfokozanah, Munashe** (Civil Engineering) **(with distinction)**  
**Mkhonto, Thabo Measure** (Civil Engineering)  
**Mmope, Tshedimosetso Faith** (Chemical Engineering)  
**Mncube, Sijabuliso Morena** (Chemical Engineering)  
**Mngomezulu, Andile Mzwakhe** (Civil Engineering)  
**Modiba, Tisetso Allan** (Chemical Engineering)  
**Mofokeng, Selemeng** (Chemical Engineering)  
**Mohamed, Taaieb** (Civil Engineering)  
**Mohlala, Kgopotso** (Civil Engineering)  
**Mokoena, Lebogang** (Chemical Engineering)  
**Mokoena, Nelisiwe Juliet** (Chemical Engineering)  
**Moleleki, Reitumetse Francina** (Civil Engineering)  
**Monareng, Kamogelo Dolence** (Chemical Engineering)  
**Mosadi, Thandeka Jennifer** (Chemical Engineering)  
**Mosiapoa, Thandy** (Chemical Engineering)  
**Mqalo, Ayabonga** (Civil Engineering)  
**Mthembu, Wandile Wiseman** (Chemical Engineering)  
**Mushaike, Rolf Innocent** (Civil Engineering)  
**Ncube, Brian Proceeder** (Chemical Engineering)  
**Nemakonde, Shalom** (Civil Engineering)  
**Netshituka, Vhugala Charity** (Civil Engineering)  
**Ngalala Ondame, Jackson** (Civil Engineering)  
**Ngobeni, Siphesihle Tracy** (Chemical Engineering)

**Ngonyama**, Amukelani (Civil Engineering)  
**Nhlangothi**, Mthokozisi Powell (Civil Engineering)  
**Nkambule**, Sandile (Chemical Engineering)  
**Ntshauba**, Takalani Happiness (Civil Engineering)  
**Nyandeni**, Mbita Loveness (Civil Engineering)  
**Nyembwe**, Jeremie (Chemical Engineering)  
**Padare**, Caleb Tinotenda (Chemical Engineering)  
**Pasipanodya**, Danai (Chemical Engineering)  
**Phetla**, Nqobile Cleopatra (Civil Engineering)  
**Radebe**, Lebohang (Chemical Engineering)  
**Ramaidi**, Oratile Pontsho (Civil Engineering)  
**Ramphore**, Matshidiso Rebecca (Civil Engineering)  
**Sawadye**, Josephine Tadiwanashe (Civil Engineering)  
**Sejake**, Thabiso Andy (Civil Engineering)  
**Selowa**, Tebatso (Civil Engineering)  
**Shabalala**, Carol Keathy (Civil Engineering)  
**Sibiya**, Nkosinathi (Chemical Engineering)  
**Sikhosana**, Karl Walter (Civil Engineering)  
**Sikhuza**, Ayanda (Civil Engineering)  
**Singo**, Hazel Vhukhudo (Chemical Engineering)  
**Sithole**, Nonhlanhla (Civil Engineering)  
**Sithole**, Nqobile (Chemical Engineering)  
**Suza**, Keneilwe Bonolo (Civil Engineering)  
**Thabethe**, Nonjabulo (Civil Engineering)  
**Thobejane**, Modipadi Karabo (Civil Engineering)  
**Tladi**, Tlhologelo Raleswele (Chemical Engineering)  
**Tongwane**, Gontle Felicia (Civil Engineering)  
**Vilanculos**, Afonso (Civil Engineering)  
**Zitumane**, Siphokazi (Civil Engineering)  
**Zondo**, Melusi Austin (Chemical Engineering)

#### **4. Bachelor of Engineering**

**Adlem, Anton** (Civil Engineering)

**Chikwanha, Sharon Tsitsi** (Civil Engineering)

**Enslin, Sade Stacey** (Civil Engineering)

**Khoza, Wandile S'bonginhlanhla** (Civil Engineering)

**Maluleke, Hlulani Bright** (Civil Engineering)

**Mazhindu, Lissa Ropafadzo** (Civil Engineering)

**Molobela, Warrentia** (Civil Engineering)

**Mufhadi, Ernest** (Civil Engineering)

**Ndlovu, Thandanani** (Civil Engineering)

**Rwizi, Daisy** (Civil Engineering)

**Vogel, Rynardt** (Civil Engineering)

#### **5. Bachelor of Urban Regional Planning Honours**

**Bapela, Thokozile Ruth** (Urban and Regional Planning)

**Feketsha, Simphe** (Urban and Regional Planning)

**Gogoba, Abulele Esethu** (Urban and Regional Planning)

**Khoza, Sanele Phefumlani** (Urban and Regional Planning)

**Letsoalo, Nkateko Vanessa** (Urban and Regional Planning)

**Machaka, Mahlatse Ashley** (Urban and Regional Planning)

**Makhubela, Hope Katekani** (Urban and Regional Planning)

**Makondo, Ripfumelo Melda** (Urban and Regional Planning)

**Maluleke, Nsovo Pearl** (Urban and Regional Planning)

**Marais, Alizwa** (Urban and Regional Planning)

**Mataha, Boke Elliot** (Urban and Regional Planning)

**Mazibuko, Zamani Mngqobi** (Urban and Regional Planning)

**Mchunu**, Nkosingizwile Mazwi (Urban and Regional Planning) **(with distinction)**  
**Memela**, Michelle Makhosazana (Urban and Regional Planning)  
**Mika**, Jeremia Khotso (Urban and Regional Planning)  
**Moekela**, Valery (Urban and Regional Planning) **(with distinction)**  
**Mothoa**, Itumeleng Kimberly (Urban and Regional Planning)  
**Mpande**, Bongane Slindokuhle Calvin (Urban and Regional Planning) **(with distinction)**  
**Namanyane**, Lekaiwe Michelle (Urban and Regional Planning)  
**Ndevu**, Ezile (Urban and Regional Planning)  
**Nelufule**, Dzulani (Urban and Regional Planning)  
**Noruwana**, Elethu (Urban and Regional Planning)  
**Pereira**, Ercilia (Urban and Regional Planning)  
**Phetla**, Nthabiseng (Urban and Regional Planning)  
**Phoolo**, Lerato (Urban and Regional Planning)  
**Van Der Walt**, Bradley Kaylin (Urban and Regional Planning) **(with distinction)**  
**Xekele**, Anathi (Urban and Regional Planning)  
**Zozo**, Nthabeleng (Urban and Regional Planning)

## 6. Bachelor of Engineering Technology Honours

**Baloyi**, Kedibone Cynthia (Civil Engineering)  
**Bodlani**, Zizibele (Civil Engineering)  
**Bunzi**, Joel Semono (Civil Engineering)  
**Chauke**, Judith Hlulani (Civil Engineering)



**Dyantyi**, Songezo (Civil Engineering)  
**Govuza**, Sibulele Siphahle (Civil Engineering)  
**Katureebe**, Humphrey James (Civil Engineering)  
**Keitemoge**, Molly Katlo (Chemical Engineering)  
**Kelaotswe**, Karabo (Civil Engineering)  
**Kgomo**, Sebushi Thomasina Charmian (Chemical Engineering)  
**Khoza**, Nelisiwe Philtricia (Civil Engineering)  
**Konzapi**, Aviwe (Civil Engineering) **(with distinction)**  
**Letlhabula**, Sebetlela (Chemical Engineering)  
**Liyongo**, Weslly Ikolonga (Civil Engineering)  
**Mahlanyana**, Livingstone Kotsane (Civil Engineering)  
**Maile**, Kopano (Civil Engineering)  
**Majola**, Phakanyisiwe Lethiwe Qinisile (Civil Engineering)  
**Makamole**, Palesa (Civil Engineering)  
**Makhoba**, Sicelo Karabo (Civil Engineering)  
**Malatji**, Matsie (Chemical Engineering)  
**Mareya**, Marvellous (Chemical Engineering)  
**Masomera**, Lissa (Civil Engineering)  
**Matema**, Panashe (Civil Engineering)  
**Mathebula**, Akani Angel (Chemical Engineering)  
**Mathebula**, Mahlari Achiever (Civil Engineering)  
**Mbumba**, Boniface Yusufu (Civil Engineering)  
**Mkasi**, Nkateko Brenda (Civil Engineering)  
**Mkhatshwa**, Sifiso (Civil Engineering)  
**Mononyane**, Thato John (Civil Engineering)  
**Motaung**, Puleng (Chemical Engineering)  
**Motsoeneng**, Lebohang Gerald (Chemical Engineering)  
**Mphefu**, Thabo (Civil Engineering)  
**Mthombeni**, Nhlamolo (Civil Engineering)

**Mthombeni**, Nhlanhla (Civil Engineering)  
**Munandi**, Tondani (Civil Engineering)  
**Mxabo**, Lihle Siyasanga Lucky (Civil Engineering)  
**Ndlovu**, Peter Xeswayo Abiner (Civil Engineering)  
**Ndwandwe**, Sandile Ernest (Civil Engineering)  
**Ngobeni**, Mpimo Tsakani (Civil Engineering)  
**Ntuli**, Thandi Venissa (Civil Engineering)  
**Paile**, Blessing Mcebo (Chemical Engineering)  
**Posholi**, Lebusa Ephraim (Civil Engineering)  
**Rabothata**, Tumedi Bonfatus (Civil Engineering)  
**Rasifudi**, Ndiwanga Freddy (Chemical Engineering)  
**Saira**, Tanatswa Beauty (Civil Engineering)  
**Thuketane**, Madala Jake (Civil Engineering)  
**Tshoga**, Lehlabile Ophilia (Civil Engineering)  
**Wu**, Yuhan (Chemical Engineering)

## 7. Master of Technology

**Davhana**, Patience (Engineering: Civil)  
**Dissertation:** Exploring water quality of groundwater at Qoboza Klaaste (QK) University of Johannesburg  
**Supervisor:** Dr R Alowo  
**Co-supervisor/s:** Dr J Nkhonjera

**Mdungazi**, Nhlamulo Oludipe Collins (Engineering: Civil)  
**Dissertation:** The effect of introducing Bus Rapid Transit System (BRTS) on traffic levels in certain areas  
**Supervisor:** Dr HA Quainoo

**Melaphi, Kedibone** (Engineering: Chemical)

**Dissertation:** Performance evaluation of activated carbon and carbon nanotubes for removal of BTEX compounds from wastewater

**Supervisor:** Prof K Moothi

**Co-supervisor/s:** Prof GS Simate

**Ngoma, Mlungisi Martin** (Engineering: Chemical)

**Dissertation:** Treatment of industrial wastewater using a polyethersulfone/carbon nanotube/polyvinyl alcohol membrane

**Supervisor:** Prof K Moothi

**Co-supervisor/s:** Dr M Mathaba

**Tshimbalanga, Monji Alain Eric** (Engineering: Civil)

**Dissertation:** Real water loss within water distribution networks of the Tshwane metropolitan city

**Supervisor:** Prof MO Dinka

**Zondo, Balamlile Zibuyisile** (Engineering: Chemical)

**Dissertation:** Synthesis of carbon nanotube/gold/iron oxide composite for lead removal from wastewater

**Supervisor:** Prof K Moothi

**Co-supervisor/s:** Prof GS Simate

## 8. Master's

**Amod, Bilquis** (Sustainable Urban Planning and Development)

**Dissertation:** Analysis of spatial planning, urbanization, and industrialization in the City of Johannesburg

**Supervisor:** Mr A Ogra

**Nene, Sibongile** (Urban and Regional Planning)

**Dissertation:** Urbanisation and industrial parks value chain analysis: A South African perspective

**Supervisor:** Mr A Ogra

**Nkosi, Nomthandazo Yvonne** (Operations Management)

**Dissertation:** The impact of a working model on employee performance and customer service in a South African bakery

**Supervisor:** Prof NI Sukdeo

**Co-supervisor/s:** Mr SC Mukwakungu

**Nokele, Anelisa Kanyisa** (Sustainable Urban Planning and Development)

**Dissertation:** Assessment of integrated waste management plan in the city of

Tshwane

**Supervisor:** Dr KJP Sebola-Samanyanga

**Zvinoera**, Simbarashe Donald (Sustainable Urban Planning and Development)

**Dissertation:** #Bethecity: A study of the relevance and impact of Ithemba property development on Johannesburg's local economic development strategy

**Supervisor:** Dr KJP Sebola-Samanyanga

## 9. Master of Philosophy

**Kawalu**, Ndapandula Patrisia (Civil Engineering)

**Dissertation:** Formulation of fly ash geopolymers mix design for 3D printing of buildings

**Supervisor:** Prof J Mahachi

**Co-supervisor/s:** Dr H Naghizadeh

**Lesanmi**, Ayokunle Adedayo (Civil Engineering)

**Dissertation:** An assessment of the maintenance management of buildings in selected higher education institutions in Nigeria

**Supervisor:** Mrs N Ngcobo

**Co-supervisor/s:** Prof CO Aigbavboa

**Lukusa Tshimpumpu**, Marc (Civil Engineering)

**Dissertation:** Structural performances of housing roofs under extreme winds: A comparison between metal sheeting and tiled roofs

**Supervisor:** Prof J Mahachi

**Co-supervisor/s:** Dr A Naghizadeh

**Singgu, Fhatuwani** (Civil Engineering)

**Dissertation:** A study of natural Zeolite and Metakaolin Pozzolans for use in cement and concrete

**Supervisor:** Prof S Ekolu

**Co-supervisor/s:** Dr HA Quainoo

**Tshilombo, Dieudonne** (Civil Engineering)

**Dissertation:** Long term energy efficiency of a Polyblock building system

**Supervisor:** Prof J Mahachi

**Co-supervisor/s:** Dr SA Alabi

## 10. Master of Engineering

**Maphosa, Ryan Keletsoe** (Structural Engineering)

**Dissertation:** Condition rating for maintenance of existing reinforced concrete rc bridges in Soweto

**Supervisor:** Prof J Mahachi

**Co-supervisor/s:** Prof S Ekolu

**Reddiar, Michyle Raphael** (Civil Engineering)

**Dissertation:** A project investigation in testing the repeatability and reproducibility of the water sorptivity test

**Supervisor:** Mr JJ Bester

**Solomon, Fitsum Hailu** (Civil Engineering)

**Dissertation:** Engineering properties of clay-cement concrete for anti-seepage barrier construction

**Supervisor:** Prof S Ekolu

**Co-supervisor/s:** Dr HA Quainoo

**Ward, Michelle** (Structural Engineering)

**Dissertation:** An Exploratory investigation into using Fibre Bragg grating sensors within post-tensioned structures to determine friction and creep losses

**Supervisor:** Mr JJ Bester

**Co-supervisor/s:** Prof S von Solms

## 11. Doctor of Philosophy

**Ayorinde, Emmanuel Oikelomen** (Civil Engineering)

**Thesis:** *A framework for sustainable energy delivery in the South African power sector*

**Supervisor:** Prof CO Aigbavboa

**Co-supervisor:** Prof WD Thwala

**Ngcobo, Nteboheng Patrina** (Civil Engineering)

**Thesis:** An integrated maintenance management framework for higher education institution buildings in South Africa

**Supervisor:** Prof CO Aigbavboa

**Osuiwe**, Chukwuemeka Ezenwa (Urban and Regional Planning)

**Thesis:** *Special economic zone transport infrastructure for regional integration: A case study of Free State Province*

**Supervisor:** Prof T Gumbo

**Co-supervisor:** Prof CO Aigbavboa



## **Ayorinde, Emmanuel Oikelomen PhD (Civil Engineering)**

Emmanuel Oikelomen Ayorinde graduated from the Department of Civil Engineering at the Federal University of Technology, Akure (FUTA), Nigeria, in 2014. He received his MTech in Civil Engineering with distinction from the University of Johannesburg in 2018. He enrolled for his doctoral studies at the University of Johannesburg, South Africa, in 2019. To his credit, he has published research works in accredited journals, book chapters, and peer-reviewed conferences.

The candidate developed a framework for sustainable energy delivery in the South African power sector. Resulting from the review of extant literature, a hypothesised model was formulated and validated using a quantitative research approach, which entailed a questionnaire and the structural equation modelling (SEM) analysis technique. In contextualising the validated model, it is shown that for the adoption of sustainable energy delivery in the power sector, four intrinsic features (environmental attributes, socio-political attributes, economic development attributes, and critical success factors), and two extrinsic features (financial attributes and resilient attributes) are significantly influential. The study contributes practically to the body of knowledge by providing a roadmap for the delivery of sustainable energy facilities to promote a better society. Also, the study adds to the theoretical base of the shift to a sustainable society through the adoption of sustainable energy technologies.

**Supervisor:** Prof CO Aigbavboa

**Co-supervisors:** Prof WD Thwala and Prof J Mahachi

## **Ngcobo, Nteboheng DPhil (Civil Engineering)**

Ntebo Ngcobo obtained her Bachelor of Engineering Technology (BTech) degree in Civil Engineering from the Durban University of Technology and a Master's degree in Business Administration (MBA) from the Ateneo Graduate School of Business, Philippines. In 2018, she enrolled for her doctoral studies in Civil Engineering at the University of Johannesburg, with a specific focus on the maintenance of higher education buildings. She is currently writing a book on the maintenance management of buildings in higher education. She has produced numerous conference publications during her PhD journey.

The candidate's research study focused on the development of a framework for the maintenance of buildings used by higher education institutions (HEIs) in South Africa. This research used exploratory factor analysis (EFA) to explore the six constructs for the refined conceptual framework. Reliability and validity tests were conducted using the Statistical Package for Social Science (SPSS) version 27 prior to using confirmatory factor analysis (CFA). The best-fit model was developed using covariance-based structural equation modelling (CB-SEM) in EQS 6.4. The result of the CB-SEM revealed, with an acceptable confidence level, that there is a statistically significant relationship between the organisation (OF), technology (TF), human resources management (HRMF), finance (FF), and communication features (CF) variables and the expected maintenance management outcome. This study adds to the body of knowledge by developing a framework for HEI maintenance management based on reliability-centred maintenance (RCM). The developed

framework will enable HEIs to achieve timely delivery of maintenance outcomes, increase the performance of their buildings, and improve the performance of the maintenance staff.

**Supervisor:** Prof CO Aigbavboa

## **Osuigwe, Chukwuemeka Ezenwa PhD: Urban and Regional Planning**

Chukwuemeka Osuigwe is a professional town and regional planner registered with South Africa Council of Planner (SACPLAN). He holds a master's degree from university of KwaZulu Natal, South Africa, and an honour's degree from Abia State University, Nigeria. He has 24 years of industry and research experience. He is currently the Executive Director of Sanemy Development Consultants, and he specialises in strategic and policy development as well as stakeholder management. He has published a book on shopping leakages and the establishment of special economic zones.

The candidate developed a framework that he coined 'SADC Nation-State Regional Integrative SEZ Transport Infrastructures' (SADCRISE). The work espoused a case study research design to elicit the experiences of the Maluti A Phofung Special Economic Zone (MAPSEZ) in the Free State Province of South Africa. The research findings revealed the presence of non-targeted and responsive SEZ policies; a lack of explicit and effective SEZ development strategies; limited active and inclusive stakeholders working towards the development of SEZ and inadequate land uses and limited functional infrastructure that is needed to support SEZ transport services for spatial and economic integration in South Africa and the region as a whole. The work makes a strong case for leveraging special economic zones and for promoting the integration of spatial and economic regions such as the SADC. The major contribution of the work is the formulation of the SADCRISE framework that is applicable to

SEZ spatial and economic regional development, in South Africa and beyond.

**Supervisor:** Prof T Gumbo

**Co-Supervisor:** Prof C Aigbavboa

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## National Anthem of South Africa

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.