

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

DEAN: PROFESSOR T MAJOZI BScEng(UND) MScEng(UND) PhD (UMIST) CEng PrEng FICChemE FAAS MASSAf  
FWISA FSAAE

### **Master of Architecture (Professional)**

**NKOSI**, Bonga Wiseman

*School of Architecture and Planning*

*Design Project:* Revitalizing Rural Landscapes: Transforming architecture and cultivating community anchorage through productive landscaping in Kabokweni, Mpumalanga

**SIWAWA**, Sinini

*School of Architecture and Planning*

*Design Project:* Of Assemblage + Traces of elsewhere: Imagining adaptive formations of place on an informal automotive enterprise hub in Johannesburg

### **Master of Engineering (Professional)**

**BVUMBI**, Gundo Freedom

*Industrial Engineering*

**HABILE**, Hlengiwe

*Industrial Engineering*

**KHUMALO**, Dorcas Nomsa

*Civil and Environmental Engineering*

**MALATJI**, Motlatjo Cathrine

*Metallurgy and Materials Engineering*

**MPHALE**, Albert Ntoa

*Mechanical Engineering*

**MUCHINGA**, Patience

*Electrical Engineering*

**MUNSAMI**, Darin

*Industrial Engineering*

**NGWANE**, Justice

*Civil and Environmental Engineering*

**RALLELE**, Kholofelo Gift

*Electrical Engineering*

**SEBATI**, Koketso Joy

*Civil and Environmental Engineering*

**SESOANA**, Refiwe Ronald

*Electrical Engineering*

## Master of Science in Building

**BETELA**, Monde Ronnie

*DISSERTATION:* Effectiveness of Community Participation on Urban Regeneration Initiatives in Hillbrow, Johannesburg

**BIKITSHA**, Esther Tumeka

*DISSERTATION:* Exploring the viability of converting commercial real estate to social housing: the post pandemic experience

**KHOZA**, Thulani Nicolas

**KUBAYI**, Shadrack

**MABUNDA**, Segametsi Florence

**MACEBELE**, Kurisani

**MASINGE**, Akani Nyeleti Hillary

**MOJELA**, Tlou Wilda

**NDWENI**, Mbalenhle Promise

*DISSERTATION:* Career progression between male and female construction industry professionals in South Africa.

**SIHLAHLA**, Asavela

**TARUSARIRA**, Cocky

## Master of Science in Engineering

**BHOM**, Fahima (*with Distinction*)

*School of Chemical and Metallurgical Engineering*

*DISSERTATION:* Photocatalytic production of hydrogen using TiO<sub>2</sub> based catalysts.

**BOPAPE**, Kgaugelo Marilyn

*School of Electrical and Information Engineering*

*DISSERTATION:* Hungarian-Murty soft decision decoding scheme for a MIMO-STBC-SPM communication system

**KATRAKILIS**, Romana Gina

*School of Civil and Environmental Engineering*

*RESEARCH REPORT:* A quantitative investigation of the carbon savings in structural design based on the evolution of the design codes

**KAWAWA**, Muammar Mwalimu Rashidi

*School of Chemical and Metallurgical Engineering*

*RESEARCH REPORT:* Slag Adherence Variation of Oxy Fuel Cutting Fuel Gases.

**KEKANA**, Glentine Tshegofatso

*School of Mining Engineering*

*RESEARCH REPORT:* Mismatch between mine prosecution rates in terms of the Mine Health and Safety Act and recommended prosecution outcomes of mine fatality inquiries

**MAKHADO**, Nyadzeni

*School of Mining Engineering*

*DISSERTATION:* Mergers and acquisitions by South African mining companies as a strategy to create value for shareholders: evidence between 1998 and 2022

**MAMABOLO**, Diana Nokuthula

*School of Mining Engineering*

*RESEARCH REPORT:* A just energy transition: Challenges and benefits in the South African coal mining industry

**MARAI**, Ronald Henry

*School of Electrical and Information Engineering*

**DISSERTATION:** Impact of low voltage ride through capability of IBT on voltage stability of an interconnected power system.

**MNENO**, Dumile Peabo *School of Chemical and Metallurgical Engineering*  
**DISSERTATION:** Modelling of MF2 platinum concentrators with blended feeds

**MOKGETHI**, Lesego Maria Moholotshwane *School of Mining Engineering*  
**RESEARCH REPORT:** Investigating the introduction of fuel cell technology in underground mining equipment

**MPHUTI**, Tibello Vincent *School of Electrical and Information Engineering*  
**DISSERTATION:** Characterization of cavity PD and corona under impulse voltage.

**NYEMBE**, Nhlanhla (*with Distinction*) *School of Chemical and Metallurgical Engineering*  
**DISSERTATION:** Microwave-assisted synthesis of Zeolite-based catalysts for pyrolysis of Lignocellulosic biomass

**PHEFO**, Omphemetse Jeanette *School of Mining Engineering*  
**RESEARCH REPORT:** An investigation into the Sunday work prohibitions in the South African mining industry

**PIENAAR**, Philip Daniel *School of Mining Engineering*  
**RESEARCH REPORT:** The effect of improved mineral resource management on the Net Present Value of the Camutue West kimberlite diamond deposit in Angola

**PRETORIUS**, Morné Wessel *School of Mining Engineering*  
**RESEARCH REPORT:** Unravelling the past for a safer future: How historic rock mass classification data compare with slope performance monitoring data

**REVELAS**, Vassili *School of Chemical and Metallurgical Engineering*  
**DISSERTATION:** Experimental Study of the Reaction Kinetics for the Production of Xylitol from Xylose Laden Waste Streams

**SINGH**, Kiren *School of Electrical and Information Engineering*  
**DISSERTATION:** Partial data offloading with mobile edge computing to address joint challenges in latency and energy efficiency.

**TUKULA**, Lerato Abdul Rahmaan Elvis *School of Mining Engineering*  
**RESEARCH REPORT:** Temporal and spatial reconciliation at Storm Mountain Diamonds Mine (PTY) LTD

**WITBOOI**, Sanet (*with Distinction*) *School of Electrical and Information Engineering*  
**DISSERTATION:** The development of a smartphone application for water monitoring in South Africa using machine learning techniques

## **Master of Science in Mechanical Engineering**

**BOUGARDT**, Jordan Lee (*with Distinction*)  
**DISSERTATION:** In-vitro and in-silico modelling of arteriovenous malformations for surgical planning.

**SURUJHLAL**, Kayla (*with Distinction*)  
**DISSERTATION:** Investigation of wake redirection techniques for wind farms.

## **Master of Science in Quantity Surveying**

**WEAICH**, Malcolm Roy *School of COnstruction Economics and Management*  
**DISSERTATION:** A Comprehensive Approach to Sustainable Technology Integration: Achieving Functional Compatibility through the Sustainability Acceptance Model in South Africa's Energy Grid

## Master of Urban Design

**NTLOANA**, Hlabishi Peter

*RESEARCH REPORT*: Revitalization of public transport modes as a transformative approach to promote transit-oriented developments: A case study of Burgersfort Town, Limpopo

**ZIYAMBI**, Christabel Vimbai

*RESEARCH REPORT*: Johannesburg Central Park. Continuing the urban form through landscape

## Master of Urban Studies

**MASEKO**, Thithi (*Posthumously*)

*Housing and Human Settlements*

**RAPA**, Calvin

*Urban Management*

*RESEARCH REPORT*: Sustainable urban mobility systems that bridge climate change mitigation and just transitions: A case study of Kampala City

**VICTOR**, Andy Sue

*Sustainable Energy Efficient Cities*

*RESEARCH REPORT*: Lessons from Transvaal House: Balancing heritage, culture and sustainability

## Bachelor of Architectural Studies Honours

**GOVENDER**, Crystelle Adelaide

**MUSHOPHE**, Mpho Rofhiwa

## Bachelor of Science Honours in Construction Management

**MAKUTU**, Kamogelo Precious

**MATSHEGA**, Millis Mothobi

**MTHIMKHULU**, Nondumiso Malibongwe

**NGEMA**, Msawakhe

## Bachelor of Science Honours in Property Studies

**GWAZE**, Panashe Petinage (*with Distinction*)

*Bachelor of Science Honours in Property Studies*

**KAMBULE**, Vusumuzi Mlangeni Valentine

*Bachelor of Science Honours in Property Studies*

**MAJARA**, Malerato Dimpho Muhle

*Bachelor of Science Honours in Property Studies*

**NDZUBE**, Hlombe Khanya

*Bachelor of Science Honours in Property Studies*

## **Bachelor of Science Honours in Quantity Surveying**

**DIPHOKO**, Refilwe

**ELIAS**, Lindiwe Rehaufi

**FELIX**, Tiheli Paul

**HALLATT**, Franco

**MBIZA**, Sandiso

**MPHAPHULI**, Aluwani

**MTSWENI**, Dumisani Jacob

**MZOLO**, Lindokuhle

**NENE**, Nondumiso Precious

**NGCOBO**, Lusanda Mbongeni Andile

**NTOZAKHE**, Zenandemabhanqo Uviwe

**TSHABALALA**, Nhlalala Elnear

**ZWANE**, Sphamandla Sydney

## **Bachelor of Science Honours in Urban and Regional Planning**

**MUDAU**, Alusani Gift

## **Bachelor of Science with Honours in Quantity Surveying**

**BANDA**, Abram Washington

## **Bachelor of Science in Engineering-Aeronautical Engineering**

**PIENAAR**, Jonathan Lloyd

## **Bachelor of Science in Engineering-Chemical Engineering**

**KALOLOKESYA**, Molemo Bob

**RAMUDZULI**, Mukhethwa

**SIBAMBO**, Eunice Getrude

## **Bachelor of Science in Engineering-Civil Engineering**

**BONGWE**, Livhuwani

**DANDA**, Albright Mutsawashe

**DIBAKOANE**, Benedict Kgahlego

**KHUZWAYO**, Lizo Mziwethu

**KOME**, Prince Thapelo

**MAFUKIDZE**, Tinashe

**MOKOENA**, Hlompho

**PHAKATHI**, Lesedi Preciousgift

**RAHMAN**, Mohammed Ebrahim

**RIKHOTSO**, Twarisani Leon

**TIBINI**, Tina Liyanda

## **Bachelor of Science in Engineering-Electrical Engineering**

**MNYANDU**, S'phesihle

**NDLOVU**, Thulani

**NKE**, Aobakoe -

**TSHIVHASE**, Gundo Ebenezer

## **Bachelor of Science in Engineering-Electrical Engineering - Information Engineering**

**NORAT**, Arshad Anwar

## **Bachelor of Science in Engineering-Industrial Engineering**

**KAU**, Johannes Neo

**SEEDAT**, Ahmad

## **Bachelor of Science in Engineering-Mechanical Engineering**

**GOODMAN**, Keagan Joshua

**KHUMALO**, Olwethu Luyanda

**RANTOA**, Kgomotso

## **Bachelor of Science in Engineering-Metallurgy and Materials Engineering**

**MAOTO**, Karabo Charles

## **Bachelor of Science in Engineering-Mining Engineering**

**CHISI**, Tatenda

**MKHWANAZI**, Bhekumuzi

**PHAFOLI**, Tsolo Emmanuel

**RAMATSEBA**, Mahlatsie Debora

## **Bachelor of Architectural Studies**

**MOROLO**, Lesego Kenneth

**NZAMA**, Sinqobile

**SWANA**, Avela Lindiwe

## **Bachelor of Science in Construction Studies**

**BANDA**, Abram Washington

**MABHE**, S'bahle

**MASHELE**, Buhlebethu Peaceworld

**MOILOANYANE**, Ntimang Angie

**MOKGOMOGANE**, Omphile

**MOPHUTING**, Gomotsegang Virginia

**MORE**, Bonolo Mosima Hope

**MOSES**, Esther Dithola

**MUDADIGWA**, Prince Agape

**MUROA**, Morutse Justice

**NTULI**, Nondumiso

**PRETORIUS**, Courtney Calla

*Bachelor of Science in Construction Studies (in the Field of  
Property Studies)*

**RATEMA**, Tshepang Primrose

**THWALA**, Anele Nompumelelo

## **Bachelor of Science in Urban and Regional Planning**

**MBHALATI**, Michelle

## **Postgraduate Diploma in Construction Management**

**MKONDWENI**, Abongile Sibakhulu

*Construction Project Management*

## **Postgraduate Diploma in Engineering**

**KHOSA**, Tsundzuka Donald

*School of Mechanical, Industrial and Aeronautical Engineering*

**KHUMALO**, Sibongile Jacobeth Ngalo

*School of Chemical and Metallurgical Engineering*

**MASHIYA**, Themba Lizobuya

*School of Chemical and Metallurgical Engineering*

**MASILELA**, Hodgson Bongane

*School of Chemical and Metallurgical Engineering*

**MATHATO**, Kholofelo Mark

*School of Electrical and Information Engineering*

**MATSHIDZE**, Rembuluwani Raymond

*School of Mechanical, Industrial and Aeronautical Engineering*

**MAZIKO**, Anele

*School of Electrical and Information Engineering*

**MKHATSHWA**, Clyde Nhlakanipho

*School of Electrical and Information Engineering*

**MOTLOUTSI**, Segofatso

*School of Chemical and Metallurgical Engineering*

**NTSIYENE**, Mpho

*School of Electrical and Information Engineering*

**TSIEAME**, Khotsofalang (*with Distinction*)

*School of Electrical and Information Engineering*



## **Postgraduate Diploma in Property Development and Management**

**KHOZA**, Friedah Ntokozo

**KUTTA**, Sixolile

*Facilities Management*

**MOGANO**, Abrina Pheladi

*Facilities Management*

**NKWALI**, Solomzi Zama

**TSHABALALA**, Busisiwe Diana (*with Distinction*)