



Graduation Programme

The Future. Reimagined.



UNIVERSITY
OF
JOHANNESBURG

Dear UJ Graduates

Your journey to this point has been an important lesson in leadership. As I have iterated often, learning, knowledge and leadership are an essential mix and those who do not know, cannot lead. Our objective has been to empower you as leaders who are primed to face the challenges of the 4IR and explore the opportunities that this new era presents both locally and internationally. This is an exciting adventure, let me assure you that the world you are entering is abundant with opportunities, and of course, challenges.

This graduation is rather special. Though we still find ourselves in a strange setting, still fighting an invisible and relatively unknown threat and still gripped with a sense of uncertainty, there does seem to be a glimmer of hope on the horizon. This represents our first cohort of in-person graduations in two years. As we celebrate your attainment of a major milestone, we are cognisant of the sheer resilience you have demonstrated against a tumultuous context – one defined by loss, anguish and seismic shifts in the way we live and work. A graduation ceremony is an important precursor to the next chapter of your lives. It is warming to be able to celebrate this achievement today with you in person as opposed to the digital modes that have defined much of the pandemic so far.

I want to take this opportunity to remind you that as a graduate, you join a small elite in our country. This is really something to celebrate. Though the odds seemed stacked against you, you persevered and not have the potential to address some of the greatest scourges of our time. You have chosen well – a qualification from UJ will hold you in good stead!

UJ has grown into a world-class, internationally recognised university with

more than 50 000 students registered. Our global stature and academic depth and footprints are acknowledged by reputable higher education ranking systems in the world. You emerge today as the world including us in South Africa, is in a period of deep change. UJ is leading the charge in the Fourth Industrial Revolution (4IR) and creating a cohort of graduates who are agile, curious and able to be active participants in a technology driven and digital environment.

At UJ, you have encountered some of the finest South African and international academic minds. You have participated in technology-rich learning, which compares favourably to the very best in global higher education.

We welcome you as a new member of the global UJ alumni community where you will join a worldwide body of professionals, many of whom are leaders in their fields. I encourage you to join the UJ Alumni Network and become an active member of the University Convocation. By staying actively engaged with UJ, you can make a real contribution to our academic projects and to those who will study at UJ after you.

It is exciting to once again commence this time-honoured tradition. Congratulations on this inspiring achievement and the best of luck with your next chapter!



Prof Tshilidzi Marwala
Vice-Chancellor and Principal
University of Johannesburg

**Welcome to the
Graduation Ceremony of the
University of Johannesburg
12 October 2022 at 12:30**

**Welkom by die
Gradeplegtigheid van die
Universiteit van Johannesburg
12 Oktober 2022 om 12:30**

**Le a Amogelwa
Moetlong wa Dikapešo wa
Yunibesithi ya Johannesburg
12 Diphlane 2022 ka 12:30**

**Niyamukelwa
eMcimbini wokweThweswa kweZiqu
weNyuvesi yaseJohannesburg
12 kuMfumfu 2022 ngele-12:30**

UNIVERSITY OF JOHANNESBURG

CHANCELLOR

Dr P Mlambo-Ngcuka

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

SENIOR OFFICE-BEARERS OF THE UNIVERSITY

VICE-CHANCELLOR AND PRINCIPAL

Prof T Marwala

BS Eng (Case Western Reserve USA), MEng (UP), PhD (Cambridge UK)

DEPUTY VICE-CHANCELLOR ACADEMIC

Prof LG Mpedi

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

DEPUTY VICE-CHANCELLOR: RESEARCH AND INTERNATIONALISATION

Prof S Sinha

BEng, MEng, PhD (UP)

REGISTRAR

Prof IC Burger

BA, HEd, BA Hons, MA, PhD (RAU)

CHIEF FINANCIAL OFFICER

Ms N Mamorare

BCom (Rhodes), BCom Hons (UKZN), CA (SA)

CHIEF OPERATING OFFICER

Dr M Ralephata

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

SENIOR EXECUTIVE DIRECTOR

Dr N Vukuza

BA (Fort Hare), BA Hons (Rhodes), DTE (UNISA), MA (Wits),
PhD (Stellenbosch)

GENERAL COUNSEL

Mr D Pretorius

BCom, LLB, LLM (NWU)

EXECUTIVE DEANS

COLLEGE OF BUSINESS AND ECONOMICS

Prof D van Lill

BSc, BSc Hons, MSc, PhD (US)

FACULTY OF ART, DESIGN AND ARCHITECTURE

Prof S Laurent

BFA (l'Ecole Boulle, Paris), MFA (ENS, Paris-Saclay),
MPhil, PhD (Université Panthéon-Sorbonne, Paris),

FACULTY OF EDUCATION

Prof N Petersen

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

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Prof DJ Mashao

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

FACULTY OF HEALTH SCIENCES

Prof S Khan

BSc, BSc Hons, MSc, PhD (UWC)

FACULTY OF HUMANITIES

Prof K Naidoo

BA, BA Hons, MA, PhD (University of Manchester, UK)

FACULTY OF LAW

Prof W Domingo

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

FACULTY OF SCIENCE

Prof D Meyer

BSc, BSc Hons, MSc (RAU), PhD (California USA)

DEAN

JOHANNESBURG BUSINESS SCHOOL

Prof R Carolissen

MSc (UWC), MBA (SUN), MCom (NWU), PhD (UWC)

MEMBERS OF COUNCIL

CHAIRPERSON

Mr MS Teke

DEPUTY CHAIRPERSON

Dr Y Ndema

MEMBERS

Prof H Abrahamse

Mr FM Baleni

Ms S Dlamini

Ms K Gugushe

Prof D Hildebrandt

Ms X Kakana

Mr M Khoza

Ms K Khumalo

Ms B Madikizela

Mr M Mahlasela

Mr M Manana

Prof T Marwala

Prof LG Mpedi

Mr LM Mpunzi

Ms N Molope

Ms Z Mthembu

Dr WP Rowland

Ms J Schreiner

Prof A Strydom

Ms C Tshilande

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 EDUCATION

QUALIFICATIONS

1. Advanced Diploma (AdvDip): Remedial Education

Sibanyoni, Eunice Thoko

Tablele, Eunice Elizabeth Paniki

2. Bachelor of Education (BEd): Foundation Phase Teaching

Le Batie, Therri Robyn

Masanabo, Rose Micca

Samkile, Nqwenela

Simelane, Sithuthukile Philelaphi

3. Bachelor of Education (BEd): Intermediate Phase Teaching

Mosia, Karabo

4. Bachelor of Education (BEd): Senior Phase and Further Education and Training (School Phase) Teaching

Debe, Nandipha Nombuyiselo Lorainne

Mbhungani, Eulenda

Ndlovu, Thandeka Precious

Sokhela, Philani

5. Postgraduate Certificate in Education (PGCE): Senior Phase and Further Education and Training Teaching

Ribeiro, Fernanda Madelena (with distinction)

6. Bachelor of Education Honours (BEd Hons): STEM Education

Ndlovu, Nomfundo Nompumelelo (Science Education)

Nomtshibe, Xolisa Vincent (ICT Innovation in Education)

7. Master of Education (MEd):

Arends, Kelsi (Education) (with distinction)

Dissertation: Reading for learning in the grade 4 science curriculum

Supervisor: Prof E Henning

Co-supervisor: Dr KE Fonseca

Badal, Kashmira Kaajal (Education) (with distinction)

Dissertation: The role of Bollywood dance to support academic improvement of learners with mild intellectual disabilities

Supervisor: Prof MM Sefotho

Badrudin, Ashraffa (Educational Management)

Minor Dissertation: The role of mentoring by senior teachers in novice teachers' careers

Supervisor: Dr E Groenewald

Banjamin, Nina Viola (Education) **(with distinction)**

Dissertation: Participant learnings from a worker and community Action Learning and Action Research (ALAR) initiative to reduce Gender-Based Violence (GBV) in the healthcare system

Supervisor: Prof MS Hlatshwayo

Co-supervisor: Prof LM Chisholm

Cancelliere, Semoni (Education) **(with distinction)**

Dissertation: Grade one teachers' understanding and enactment of scripted competency-based lesson plans

Supervisor: Prof S Ramsaroop

Co-supervisors: Prof NF Petersen and Ms HH van der Haar

Chindongo, Immanuel Chindongo (Information and Communication Technology in Education)

Minor Dissertation: Teachers' pedagogical beliefs on the use of YouTube videos for teaching and learning of Life Science concepts

Supervisor: Prof GJ van der Westhuizen

Co-supervisor: Dr T Dhurumraj

Clark, Frenchesca June (Educational Management)

Minor Dissertation: Future-fit leaders for future-fit schools: Principal narratives of leading rural primary schools for 4IR imperatives

Supervisor: Dr PK Triegaardt

Coetser, Yolandi Marie (Information and Communication Technology in Education) **(with distinction)**

Minor Dissertation: Philosophy lectures' decision-making process in using the Socratic method of instruction during a rapid transition to online learning

Supervisor: Prof J Batchelor

Daries, Alana Geneveve (Educational Management)

Minor Dissertation: School leadership response to teaching and learning during the COVID-19 pandemic in Western Cape public partnership high schools

Supervisor: Prof PJ du Plessis

Dharamraj, Lineshi (Information and Communication Technology in Education)

Minor Dissertation: Teachers' experiences of technology-mediated remote teaching during the COVID-19 pandemic

Supervisor: Dr T Dhurumraj

Dhlamini, Pamella Phindiwe (Education)

Dissertation: Challenges experienced by teachers in supporting learners with barriers to learning in the intermediate phase

Supervisor: Dr ND Maseko

Dlamini, Goodwill Sifiso (Educational Management)

Minor Dissertation: The role of school governing bodies in the management of learner discipline in no-fee public schools

Supervisor: Prof R Mestry

Drake, Nesta (Information and Communication Technology in Education)

Minor Dissertation: Afrikaans first additional language teachers' experiences teaching online during COVID-19 at two public high schools in Gauteng

Supervisor: Prof GV Lautenbach

Els, Surita (Information and Communication Technology in Education)

Minor Dissertation: Teachers' experiences of the shift to online teaching under COVID-19 restrictions at an Omani private school

Supervisor: Prof S Isaacs

Feiteira, Marco Caetano (Education)

Dissertation: English for social (in)justice: Learner voice and agency in English classrooms in southern Johannesburg

Supervisor: Prof L Kajee

Fester, Marchelle Odette (Information and Communication Technology in Education)

Minor Dissertation: The experiences of in-service teachers in short online courses aimed at developing online teaching skills

Supervisor: Prof GV Lautenbach

Fisher, Octavia (Educational Psychology)

Minor Dissertation: Parental involvement in mapping career transitioning of youth with autism

Supervisor: Prof BM Diale

Fouche, Nicholas Vorster (Information and Communication Technology in Education)

Minor Dissertation: Foreign post-secondary school teachers' experiences of teaching EFL online in China during COVID-19

Supervisor: Dr M Moodley

Fourie, Laurette (Educational Management)

Minor Dissertation: Distributive leadership during COVID-19: Perspectives of middle leaders in primary schools

Supervisor: Dr P Naidoo

George, Charles Ndifikepo (Information and Communication Technology in Education)

Minor Dissertation: The relevance of cultural intelligence to technology acceptance for third-year education students in Namibia

Supervisor: Prof GV Lautenbach

Hajat, Ameera (Educational Management) **(with distinction)**

Minor Dissertation: The experiences of school leaders in Gauteng-based independent schools during the COVID-19 pandemic

Supervisor: Dr Z Moyo

Ikanda, Simeon Haitange-Omwene (Information and Communication Technology in Education)

Minor Dissertation: Integrating technology in a Grade 11 mathematics classroom in Namibia

Supervisor: Dr R Durandt

Co-supervisor: Prof GV Lautenbach

Ismail, Sadiya (Educational Psychology)

Minor Dissertation: The role of teachers in supporting learners who have a hearing impairment

Supervisor: Dr L Munongi

Joubert, Shenae (Information and Communication Technology in Education)

Minor Dissertation: Interactive simulations as support for guided inquiry in grade 6 Natural Sciences Knowledge Strand

Supervisor: Prof UD Ramnarain

Kapwata, Tisankhe (Educational Management)

Minor Dissertation: The professional development of newly appointed principals and deputy principals

Supervisor: Dr N Janse van Vuuren

Kharwa, Ahmad Haroon (Information and Communication Technology in Education)

Minor Dissertation: The preparedness of Crown Private School in the UAE for the 4th industrial revolution

Supervisor: Prof GV Lautenbach

Kieser, Westlee Jonathan (Educational Management)

Minor Dissertation: Exploring the role of department heads in mentoring novice teachers transitioning into the teaching profession

Supervisor: Dr A Mpsi

Le Roux, Janine Joan (Education) (**with distinction**)

Dissertation: South African women education leaders' experiences of social justice, servant leadership and career aspirations

Supervisor: Prof JC Perumal

Co-supervisor: Prof A Onwuegbuzie

Losper, Tasneema (Educational Management)

Minor Dissertation: Dynamics and complexities of leading for 4IR implementation in the semi-rural primary schools

Supervisor: Prof PJ du Plessis

Maluleke, Thulani Boldwin (Information and Communication Technology in Education)

Minor Dissertation: Student participation in non-mandatory synchronous virtual sessions in an online master's degree programme

Supervisor: Prof GV Lautenbach

Co-supervisor: Dr J Goto

Mohamed, Hawama (Educational Management)

Minor Dissertation: The role of school leadership in mentoring beginner teachers' transition into the teaching profession

Supervisor: Dr E Groenewald

Monau, Neo (Information and Communication Technology in Education)

Minor Dissertation: The use of ICT in teaching and learning in junior secondary mathematics and science at an urban school in Botswana

Supervisor: Prof GJ van der Westhuizen

Mosesi, Seipati Selinah (Educational Psychology)

Minor Dissertation: Experiences of grade R rural schoolteachers in supporting learners with developmental dyslexia

Supervisor: Prof MM Sefotho

Mulaudzi, Mboneni Stanely (Information and Communication Technology in Education)

Minor Dissertation: The use of blended teaching to improve workplace training in the transport sector

Supervisor: Prof GV Lautenbach

Munger, Shanel Donna (Educational Management) (**with distinction**)

Minor Dissertation: Online platforms enabling principal leadership for teacher well-being: From dialogue to action

Supervisor: Prof K Yassim

Murray, Charne Soleil (Educational Management) (**with distinction**)

Minor Dissertation: Females navigating educational leadership in Kuwaiti private schools

Supervisor: Prof JC Perumal

Ncube, Lorraine (Educational Management)

Minor Dissertation: The experiences of female primary school principals in leading and managing schools in Botswana

Supervisor: Prof R Mestry

Ncube, Rumbidzai (Information and Communication Technology in Education)

Minor Dissertation: Life Sciences teachers' pedagogical beliefs and their influence on ICT integration

Supervisor: Prof UD Ramnarain

Nkosi, Refiloe Rejoice (Educational Psychology)

Minor Dissertation: Parent-teacher collaboration in mapping career transitioning of youth diagnosed with ADHD

Supervisor: Prof BM Diale

Pila, Onicah Koketso (Education) **(with distinction)**

Dissertation: Senior Phase English second language Natural Sciences teachers' needs regarding their Cognitive Academic Language Proficiency

Supervisor: Prof L Mavuru

Poole, Devreaux Victor (Educational Management)

Minor Dissertation: Cultural intelligence for effective leadership: A case study of a Chinese international school

Supervisor: Prof K Yu

Poole, Ilonka Suzanna (Information and Communication Technology in Education) **(with distinction)**

Minor Dissertation: Learning design principles to inform technology-mediated assessment in grade 8 Afrikaans as First Additional Language

Supervisor: Prof J Batchelor

Roux, Ronmari (Information and Communication Technology in Education)

Minor Dissertation: Design lectures' pedagogical approach to first year practical studio sessions during the rapid transition to online learning

Supervisor: Prof J Batchelor

Seshoka, Mahlatsi Wilber (Educational Management)

Minor Dissertation: School leaders' experience in instilling learner discipline in South African schools

Supervisor: Prof PJ du Plessis

Smit, Marius Stephanus (Information and Communication Technology in Education)

Minor Dissertation: How students in an online master's programme transfer their learning to their digital teaching practices

Supervisor: Prof GV Lautenbach

Co-supervisor: Dr E Kritzingner

Subramanien, Dhavayogan (Information and Communication Technology in Education)

Minor Dissertation: Student perspectives of a changing assessment strategy within a Faculty of Humanities at a private HEI during a global pandemic

Supervisor: Prof GV Lautenbach

Thangeni, Fulufhelo (Educational Management)

Minor Dissertation: Digital leadership: Towards developing an innovative technology-led culture of learning in rural Limpopo schools

Supervisor: Dr PK Triegaardt

Van Reenen, Mariska (Educational Management)

Minor Dissertation: Leading with the heart, head and hands: Social emotional learning in rural primary schools

Supervisor: Dr PK Triegaardt

8. Doctor of Philosophy in Education (PhD)

Agumba, Hellen Awino

Thesis: Exploring the influence of rurality on students' trajectories through higher education

Supervisor: Prof A Ndofirepi

Co-supervisor: Dr ZS Simpson

Goto, Otilia

Thesis: 21st Century education in Zimbabwe

Supervisor: Prof DR Naidoo

Co-supervisor: Prof KJ Kennedy

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT QUALIFICATIONS

9. Diploma | National Diploma

Buntse, Zolile Edward (Extraction Metallurgy)

Cicero, Nathanael Benjamin (Engineering: Civil)

Dlamini, Sabelo Always (Engineering: Metallurgy)

Kazadi, Pierre Kevin Katembwe (Management Services)

Khoza, Eunice (Management Services)

Letsholo, Thebe Ntute (Operations Management)

Lumanisa Mapasa, Clara (Engineering: Metallurgy)

Mahlangu, Emmanuel (Engineering: Metallurgy)

Mamabolo, Molau Tshegofatso Bethuel (Operations Management)

Maroga, Kamogelo (Engineering: Metallurgy)

Masiavhula, Thendo Moshe (Engineering: Civil)

Masilela, Kilda Simanga (Operations Management)

Mitileni, Precious (Operations Management)
Mkhondo, Thembeke Carol (Operations Management)
Modike, Terrence Makepisi (Engineering: Metallurgy)
Mogane, Rodney Hlokego (Engineering: Metallurgy)
Molangoane, Masipa Lebogang (Engineering: Metallurgy)
Mpye, Kgomotso (Operations Management)
Mthembu, Mdumiseni Siphamandla (Operations Management)
Mthethwa, Siyabonga Gladwin (Operations Management)
Muavha, Mukovhe (Engineering: Civil)
Mufamadi, Mulalo Konanani (Engineering: Metallurgy)
Ngwenya, Nhlaluko (Management Services)
Phungo, Dakalo (Engineering: Metallurgy)
Pudi, Survious (Operations Management)
Ramongalo, Lebohang Maria (Operations Management)
Rampedi, Surprise Dimakatso (Engineering: Civil)
Senna, Tebogo Aubrey (Operations Management)
Tshikalange, Ndifelani Powel (Engineering: Metallurgy)

10. Advanced Diploma

Dikambi Boussougou, Gerdale Sabrina (Operations Management)
Mbambiso, Aphilile (Quality)
Modishana, Mphothiedi Lorraine (Operations Management)
Moloi, Monica Regaina (Operations Management)
Shivambu, Vutlhari Elton (Operations Management)
Zwane, Nkosinathi William (Operations Management)

11. Bachelor's

Maswanganyi, Nhlanhla Sinah (Mine Surveying)

Ndonga, Gigusa Heaven Emeraude (Mine Surveying)

12. Bachelor of Engineering Technology

Chiloane, Adelaid (Mining Engineering)

Chintsiza, Sonwabile (Extraction Metallurgy)

Diallo, Thierno Boukhariou (Mining Engineering)

Disegwane, Clifton (Mining Engineering)

Fabchi, Rajour Jumfan (Mining Engineering)

Kabwayi, Laurent Daphne Kitopi (Extraction Metallurgy)

Kubheka, Thulani Success (Mining Engineering)

Kunene, Themba Mphumuzi (Mining Engineering)

Maduwa, Wavhuthu (Mining Engineering)

Makhubela, Sacrifice Bless (Civil Engineering)

Malatjie, Lebogang (Civil Engineering)

Malindi, Zizipho (Mining Engineering)

Maluleke, Tsundzukani (Civil Engineering)

Maphangule, Dakalo Vinoliah (Extraction Metallurgy)

Mayengeshe, Aviwe (Civil Engineering)

Mazibuko, Ayanda (Extraction Metallurgy)

Mbata, Sabelo (Civil Engineering)

Mbelu, Banele Thamsanqa (Mining Engineering)

Mogapi, Masego (Mining Engineering)

Mokubela, Charlotte (Extraction Metallurgy)

Moloto, Kgodisho (Mining Engineering)

Molotsi, David Kgatliso Branden (Civil Engineering)

Morerwa, Tseletse (Civil Engineering)
Mthombeni, Mondli (Civil Engineering)
Mulipa, Fortune (Mining Engineering)
Ncongwane, Mphoyabona Sydney (Civil Engineering)
Ndimande, Thokozani John (Mining Engineering)
Nemakhavhani, Thendo Pitunia (Extraction Metallurgy)
Nomiya, Sipehelele Simphiwe (Mining Engineering)
Nyevera, Simbarashe (Civil Engineering)
Nziane, Kgothatso Faith (Civil Engineering)
Rahlao, Kori (Mining Engineering)
Ramodumo, Raphoko Chariph (Mining Engineering)
Ramuvhundu, Mukoni (Civil Engineering)
Raselabe, Gumani Dollance (Extraction Metallurgy)
Sawall, Matome Lazarus (Mining Engineering)
Sebola, Mokibelo Evert (Civil Engineering)
Sello, Mokikiti (Mining Engineering)
Shai, Phulushi Tshegofatjo (Extraction Metallurgy)
Shitlhangu, Hlovo (Civil Engineering)
Shoba, Thabo Nhlakanipho (Mining Engineering)
Sibeko, Vusimuzi (Civil Engineering)
Sithole, Vezinhlanhla Siyanda (Mining Engineering)
Yongo, Afitho Giovanni (Extraction Metallurgy)

13. Bachelor of Engineering

Dimpe, Kemisetso (Civil Engineering)
Katungu, Munyaradzi (Civil Engineering)
Luhaka, Nathan Omba (Civil Engineering)
Masetla, Makgaba Bernard (Civil)

Mkwanazi, Waren (Civil)
Mthebule, Shiluva Jesse (Civil)
Mthembu, Simon Thembinkosi (Civil)
Muromba, Lee Roy Tinotenda (Civil Engineering)
Ntsihlele, Moeketsi Lente (Civil Engineering)
Thipe, Thando (Civil Engineering)

14. Bachelor of Engineering Technology Honours

Mkhabela, Mandla Sibusiso (Mining Engineering)

15. Master of Technology

Bhabha, Kgotso (Engineering: Metallurgy)
Title: *Study of transition depth range between impact and sliding wear: effect on hardening of abrasion-resistant liner materials*
Supervisor: Prof ME Makhatha
Co-supervisor/s: Mr M Maine

Chauke, Julieth Langutani (Engineering: Metallurgy)
Title: *Evaluation of local chromite sands for rapid sand casting applications*
Supervisor: Prof K Nyembwe
Co-supervisor/s: Dr M van Tonder

Faltein, Sivuyile Aubrey (Operations Management)

Title: *Exploring quality management practices in infrastructure*

development projects: Case study of state-owned enterprise contractors in South Africa

Supervisor: Prof N Sukdeo

Ibrahimu, Kidoge (Operations Management)

Title: *Analysis of the interrelationship between service climate, job*

satisfaction, and patient satisfaction at a hospital in Ekurhuleni

Supervisor: Mrs E Nwobodo-Anydiegwu

Co-supervisor/s: Prof C Mbohwa

Javani, Bruce (Operations Management)

Title: *The integration of the fourth industrial revolution into operational excellence*

Supervisor: Dr NS Madonsela

Co-supervisor/s: Dr A Adedotun

Kgobe, Palesa (Operations Management)

Title: *The applicability of Radio Frequency Identification (RFID) technology as a tool for lean warehouse management*

Supervisor: Dr PA Ozor

Laewamo, Hamame Assefa (Extraction Metallurgy)

Title: *Upgrading of South African coal fines by flotation process*

Supervisor: Mrs N Tshiongo-Makgwe

Co-supervisor/s: Prof K Nyembwe

Mabusa, Keletjo (Operations Management)

Title: *Investigating the factors influencing effective implementation of inventory management systems in a service industry*

Supervisor: Dr El Edoun

Co-supervisor/s: Dr N Madonsela

Maribe, Keamogetswe Sharon (Operations Management)

Title: *Investigating operational cost reduction in the road freight*

transportation companies implementing lean thinking within South

Africa

Supervisor: Dr El Edoun

Co-supervisor/s: Prof A Pradhan

Mcanyana, Khethokwakhe Bright (Engineering: Mechanical)

Title: *Design of a supervisory control and data acquisition (SCADA)*

program for acoustic cleaning device of the boilers at SASOL synfuels power station in Secunda

Supervisor: Dr DVV Kallon

Co-supervisor/s: Prof L Tartibu

Ndou, Tovhowani Ayandah (Operations Management)

Title: *Impact of automation and robotics on productivity and job*

creation: the case of South African manufacturing sector

Supervisor: Dr NB Madonsela

Co-supervisor/s: Prof B Thwala

Nengovhela, Masala (Operations Management)

Title: *Analysing the impact of lean six sigma in the South African*

manufacturing industry

Supervisor: Prof N Sukdeo

Co-supervisor/s: Dr ID Ohiomah

Nkadimeng, Mamoletsi Winnie (Operations Management)

Title: *Integration of production planning and quality using a mathematical model: A case of brewing company in Gauteng*

Supervisor: Dr A Pradhan

Co-supervisor/s: Dr Y Zakaria

Ntontela, Siyolise (Operations Management)

Title: *Automation in the operations of small-scale bakeries in the City of*

Johannesburg: Operational effectiveness and efficiency

Supervisor: Mr S Mkwanzazi

Co-supervisor/s: Dr A Pradhan

Ogbebor, Eghosa Hansley (Operations Management)

Title: *An evaluation of environmental impact assessment of building*

construction in Nigeria

Supervisor: Prof C Aigbavboa

Co-supervisor/s: Dr E Agbenyeku

Ozor, Okwuchi Chinwem (Operations Management)

Title: *Engineering skills requirement analysis in the fourth industrial*

revolution: a case study of South Africa and Nigeria

Supervisor: Prof CO Aigbavboa

Co-supervisor/s: Dr BM Arthur- Aidoo

Ramaboea, Moloko Elizabeth (Operations Management)

Title: *Exploring the impact of quality management practices in the South African manufacturing sector*

Supervisor: Prof N Sukdeo

Co-supervisor/s: Dr ID Ohiomah

Tshabalala, Neo Vincent (Engineering: Metallurgy)

Title: *Manufacturing of a resin-coated chromite sand for rapid sandcasting*

applications

Supervisor: Prof K Nyembwe

Co-supervisor/s: Dr M van Tonder

16. Masters'

Radingoana, Nakgwe Donald (Operations Management)

Title: Developing strategies for the implementation of renewable energy

in the City of Johannesburg

Supervisor: Dr A Pradhan

Co-supervisor/s: Dr P Masilela

Selowa, Brian Tumiso (Operations Management)

Title: The impact of production planning and control on operational

costs within the manufacturing industries in South Africa:
The

case of a plastics manufacturer in Johannesburg

Supervisor: Dr K Mushavhanamadi

Co-supervisor/s: Mr EM Bakama

Uwadia, Uche Festus (Operations Management)

Title: An Empirical Testing and Practical Applicability of Theoretical

Concepts of Quality Management Systems in Manufacturing Company

Supervisor: Dr El Edoun

Co-supervisor/s: Dr P Anup

17. Master of Philosophy

Bele, Khumbelo (Engineering Management)

Title: Analysis of impact of maintenance practices on road infrastructure

Supervisor: Dr M Munsamy

Brown, Ashwyn Errol (Engineering Management)

Title: The influence of design decision-making on the lifecycle of equipment

Supervisor: Prof H Nel

Kunene, Bayanda Banzie (Engineering Management)

Title: Critical analysis on failure mode effects of the traction motor

Supervisor: Prof A Telukdarie

Letsoale, Tshepo Hope (Engineering Management)

Title: Exploring the role of project leadership in successful project management: A case of the construction industry in the Gauteng Province

Supervisor: Prof L Pretorius

Co-supervisor/s: Prof JHC Pretorius

Mabaso, Themba (Engineering Management)

Title: Establishment of a framework for improved concurrent engineering of De Beers Technologies products: A case study

Supervisor: Prof AF Mulaba-Bafubiandi

Madube, Tshegofatso Felicia (Engineering Management)
Title: Implementation of the fourth Industrial revolution in the oil and gas industry
Supervisor: Prof A Telukdarie

Makibelo, Choene Paul (Engineering Management)
Title: Implementation of six sigma as quality improvement in a South African municipality
Supervisor: Prof H Nel
Co-supervisor/s: Dr B Makhanya

Makola, Hilda Magante (Engineering Management)
Title: Factors influencing risk management in South African rail projects
Supervisor: Prof AL Marnewick

Mashitsho, Enos Kwena (Engineering Management)
Title: Maintenance productivity enhancement through performance measurement metrics
Supervisor: Prof A Telukdarie

Mbatha, Andrew Modiri (Engineering Management)
Title: Evaluating the factors that impacted the reliability and maintainability of the 22E locomotives
Supervisor: Prof JHC Pretorius
Co-supervisor/s: Dr G Chattopadhyay

Mhlongo, Phetheni (Engineering Management)

Title: Case study on impact of engineering changes during power plant construction

Supervisor: Dr M Munsamy

Mocwagole, Kealeboga Prudence (Engineering Management)

Title: Factors causing failure to deliver railway construction projects on time in South Africa

Supervisor: Prof AL Marnewick

Co-supervisor/s: Dr B Makhanya

Mokoena, Kagiso (Engineering Management)

Title: Reliability analysis in the adoption of cloud computing

Supervisor: Prof H Nel

Co-supervisor/s: Dr B Makhanya

Mosia, Moketa Charles (Engineering Management)

Title: Cybersecurity and the impact of information regulation in small to medium organisations in South Africa

Supervisor: Prof AL Marnewick

Co-supervisor/s: Dr M Malatji

Mphahlele, Sehlabane Nape (Engineering Management)

Title: The challenges of effectively managing multi-disciplined engineering teams

Supervisor: Prof H Nel

Muchairi, Alfred (Engineering Management)

Title: Business process reengineering as the best modern methodology for process optimisation

Supervisor: Prof A Telukdarie

Nanto, Sithembile Gilbert (Engineering Management)

Title: Integration, challenges, and risk management processes of contractors in renewable energy projects

Supervisor: Dr R Swanepoel

Co-supervisor/s: Prof JHC Pretorius

Phokwane, Irish (Engineering Management)

Title: Optimizing and modelling business processes for a successful implementation of process automation

Supervisor: Prof A Telukdarie

18. Master of Engineering

Assefa, Abyssinia Ephraim (Civil Engineering)

Title: Groundwater vulnerability assessment using drastic and God models in Doornfontein area, Johannesburg

Supervisor: Prof MO Dinka

Bienvenu, Mbuya Ilunga (Extraction Metallurgy) (WITH DISTINCTION)

Title: Combined case-based reasoning, artificial neural network and response surface methodology for optimisation of cobalt and copper extraction from selected Democratic Republic of Congo Copperbelt mines

Supervisor: Prof AF Mulaba-Bafubiandi

Kabasele, Jonathan Kabadjundi (Extraction Metallurgy)

Title: Investigation of South African foundry chromite sand crushability

Supervisor: Prof K Nyembwe

Kennedy, Alexay Allister (Engineering Management)

Title: Benefits realisation of railway technology investments

Supervisor: Prof AL Marnewick

Co-supervisor/s: Prof C Marnewick

Kgarose, Marufa Alpheus (Engineering Management)

Title: Competitive advantage through operation excellence in the food and beverage industry: A case study

Supervisor: Prof A Telukdarie

Co-supervisor/s: Mr MT Manenzhe

Maifo, Lucky Moyagabo (Engineering Management)

Title: Electricity utilities of the future: potential business models and trends

Supervisor: Prof AL Marnewick

Malope, Nosipho Lindelwa (Engineering Management)

Title: Risk management strategies in the engineering design of mega projects

Supervisor: Dr BW Botha

Mathe, Nyamabo Lewis (Civil Engineering)

Title: A probabilistic-based approach to rock slope stability analysis in open-pit mine using numerical modelling

Supervisor: Prof M Ferentinou

Co-supervisor/s: Prof K Esmaeili

Mnguni, Bandile Rudolf (Engineering Management)

Title: Efficacy of maintenance strategies for coal pulverizing mills to optimize process reliability

Supervisor: Prof JHC Pretorius

Co-supervisor/s: Dr N Madushele

Mollo, Tshepiso Persevarance (Engineering Management)

Title: Risk management of the rehabilitation of a communal facility on dolomitic land: a South African case study

Supervisor: Prof L Pretorius

Co-supervisor/s: Prof JHC Pretorius

Motlhabane, Accolade Tiisetso (Physical Metallurgy)

Title: Mechanical reclamation of waste sand produced by additive

manufacturing processes

Supervisor: Prof K Nyembwe

Co-supervisor/s: Dr M van Tonder

Motupa, Khimane Remona (Engineering Management)

Title: Reliability management of overhead track equipment of a South African

railway company

Supervisor: Prof JHC Pretorius

Co-supervisor/s: Dr BS Makhanya

Naidoo, Krien (Engineering Management) (WITH DISTINCTION)

Title: Security risk management strategies to reduce criminal incidents in the

South African rail environment

Supervisor: Prof AL Marnewick

Co-supervisor/s: Dr K Olatayo

Pather, Bradley (Civil Engineering)

Title: Acid resistant Portland cement and geopolymer concretes

Supervisor: Dr H Quainoo

Phahlane, Thabang Arthur (Physical Metallurgy)

Title: Computational design of titanium and aluminium - based high entropy alloys

Supervisor: Prof P Olubambi

Co-supervisor/s: Dr AM Ukpong

Phasha, Charlotte (Engineering Management)

Title: The impact of artificial intelligence on cost overruns and risk management in construction project management

Supervisor: Dr D Kruger

Swart, Wessel (Engineering Management)

Title: Industry 4.0 based asset management in freight rail

Supervisor: Prof A Telukdarie

Van Der Westhuizen, Renier (Engineering Management)

Title: The effectiveness of hybrid agile management in multidiscipline IoT product development projects

Supervisor: Prof AL Marnewick

Co-supervisor/s: Prof C Marnewick

Vilakazi, Thabisile (Engineering Management) (WITH DISTINCTION)

Title: Climate change impacts and mitigation strategies of South

African manufacturing companies

Supervisor: Prof AL Marnewick

Co-supervisor/s: Prof P Mativenga

Weyers, Edwin (Engineering Management)

Title: The use of drones to improve downtime management on South African mines

Supervisor: Dr BW Botha

19. Doctor of Philosophy

Chingono, Tatenda Talent (Operations Management)

Title: Municipal waste to energy management systems: Bio-energy production through reverse logistics

Supervisor: Prof C Mbohwa

Co-supervisor/s: Dr A Pradhan

Lesia, Mosala Phillip (Engineering Management)

Title: An integrated residential location choice model for developing countries

Supervisor: Prof CO Aigbavboa

Co-supervisor/s: Prof WD Thwala

Mabotja, Tshepo Phuti (Operations Management)

Title: An integrated supply chain management model for the South Africa

manufacturing industry in the era of the fourth industrial revolution

Supervisor: Prof CO Aigbavboa

Co-supervisor/s: Prof WD Thwala & Dr T Munyai

Maja, Pontsho William (Engineering Management)

Title: Development of smart rural village indicators and identification of

technologies aligned with industry 4.0

Supervisor: Prof J Meyer

Co-supervisor/s: Prof S von Solms

Matlala, Humphrey Nkobeng (Engineering Management)

Title: Project and program management as enablers of organisational

strategy execution and the role of enterprise portfolio management

office in the management value chain

Supervisor: Prof H Nel

Co-supervisor/s: Prof JHC Pretorius

Mkhize, Nompumelelo Patience (Operations Management)

Title: A framework for airlines' growth in the era of the fourth industrial revolution in South Africa

Supervisor: Prof WD Thwala

Co-supervisor/s: Prof CO Aigbavboa

Naicker, Samantha (Operations Management)

Title: Framework to assess the effects on consumer behaviour following the implementation of the health promotion levy

Supervisor: Dr El Edoun

Co-supervisor/s: Prof N Sukdeo

Pillay, Kasandra (Engineering Management)

Title: Modelling value-added services adoption in national research and education networks, using a design science research process, with a systems thinking approach and fuzzy cognitive maps

Supervisor: Prof JHC Pretorius

Co-supervisor/s: Dr LD Erasmus

Rantsatsi, Ndaleni Phinias (Engineering Management)

Title: Improving construction health and safety agent collaboration and health and safety performance in the South African construction industry

Supervisor: Dr I Musonda

Co-supervisor/s: Dr J Agumba

Singh, Nirdesh (Engineering Management)

Title: Small-scale mining defined using multi-criteria decision-making and expert opinion tools

Supervisor: Prof AF Mulaba-Bafubiandi

Co-supervisor/s: Prof JHC Pretorius

JOHANNESBURG BUSINESS SCHOOL QUALIFICATION

20. Honorary Doctor of Philosophy

Soon-Shiong, Patrick

FACULTY OF EDUCATION

DOCTORAL CV AND LAUDATIONES

Agumba, Hellen Awino (PhD)

Hellen Agumba obtained her Bachelor of Education from Kenyatta University (Kenya). She proceeded to do her Honors degree at the University of Johannesburg, followed by a Master's in Education. Hellen is currently working as coordinator of a national project, the Teaching Advancement at University (TAU) and she is also a part-time lecturer at the Department of Education and Curriculum Studies. Hellen also made active contributions as a research assistant to the collaborative Southern African Rurality in Higher Education (SARiHE). Hellen's research interest is in the learning experiences of students in higher education, with a keen focus on marginalised students and advancing the discourse of social justice in higher education. In 2021 she presented a paper at the Research in Engineering Education Symposium (REES), where she received the award for Best Student Paper.

This study examines rural students' experiences of entering and progressing through higher education in South Africa. It contextualizes the subjectivities, positionings, and knowledge practices that rurality might invoke for students coming from rural contexts and how it might frame their access, success and belonging at university. Data was collected within an interpretive, qualitative case study design. Digital documentaries, semi-structured interviews and focus group

discussions were used to collect data. This study fills a scholarly gap by focusing on the voices and perspectives of rural students who negotiate multiple obstacles in accessing and succeeding in higher education. The thesis employs the notions of space, social capital, communities of practice, and social justice to further problematise and deepen understanding of the skills, knowledge practices and experiences that rural students utilise in their trajectories into and through higher education.

Supervisor: Prof A Ndofirepi

Co-supervisor: Dr ZS Simpson

Goto, Otilia (PhD)

Otilia Muyambo-Goto began her teaching career with a Bachelor of Arts degree completed at the University of Zimbabwe in 1996. She then attained a Post Graduate Diploma in Education at Midlands State University in 2002. Thereafter, she completed a Master's in Education in English Language and Literature at Solusi University. Mrs Goto has been a high school teacher at an independent school for 20 years.

Framed by transformative learning theory, this study used an explanatory sequential mixed-method design to explore the applicability of the Partnership for 21st Century Learning framework (P21) in the Zimbabwean context. Data was collected via questionnaires of 93 teachers and 236 students from four secondary schools. Follow-up interviews with twelve teachers were also done. Confirmatory factor analysis showed that three of the eight elements of the P21 framework: learning skills and values, learning processes, and self-management, were most significant for Zimbabwean teachers and students. While teachers strongly endorsed learning processes, the students strongly endorsed self-management skills. The teachers and students agreed on the importance of learning skills and values. The predominant use of teacher-centered pedagogy was found to be an obstacle for learning 21st Century skills. The study challenged Western views concerning the priorities to be given to 21st century skills. It suggested that more attention should be paid to the specific needs of students, particularly in developing countries, and the contexts that shape these needs. This may mean relying more on students' perceptions of their needs as

the basis for curriculum development rather than top-down lists of skills divorced from local priorities and contexts.

Supervisor: Prof DR Naidoo

Co-supervisor: Prof KJ Kennedy

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

DOCTORAL CV AND LAUDATIONES

Chingono, Tatenda Talent (PhD) Operations Management

Tatenda Talent Chingono holds an MTech degree in Operations Management. He has taught Logistics and some Operations Management modules at the University of Johannesburg from 2017 to the end of 2019. He has also taught Supply Chain Management and Economics at the Regent Business School, Johannesburg. He has successfully supervised one master's student to completion. He has published more than 20 peer-reviewed articles, including three book chapters with Springer and Kogan Page Limited.

Concerns over the effects of urban solid waste on health and the environment have steadily grown. In response to these concerns, the study, titled 'Municipal waste management in an African city: A focus on reverse logistics towards bioenergy production', assessed the state of reverse logistics for the generation of bioenergy in Johannesburg. The research has contributed to the creation of information systems and databases with raw data, which include returns rate, recovery rate, returns inventory turnover, waste quantification, and supply chain management systems and framework. The study developed a logistics model for waste to bioenergy in an urban setting, which included process options and conversion paths

for converting the targeted waste stream to enriched bioenergy. The study also developed a framework for the management system to successfully achieve a municipal waste reverse logistics system for bioenergy production, which can be applied to any urban cities.

Supervisor: Prof C Mbohwa

Co-supervisor: Prof A Pradhan

Lesia, Mosala Phillip (PhD) Engineering Management

Mosala Phillip Lesia holds a Bachelor of Arts in Economics (*cum laude*) from the National University of Lesotho. He also holds an Honours degree in Money and Banking, and a Master's degree in the specialised field of Land and Property Management, both from the University of the Free State, South Africa. He proceeded with his scholarly pursuit by enrolling for a PhD (Engineering Management) at the University of Johannesburg in 2018.

The candidate developed an integrated residential location choice (RLC) model for developing countries, employing structural equation modelling (SEM) with the help of EQS Version 6.2 software to analyse collected primary data. The obtained results were validated using a confirmatory factor analysis approach. The findings reveal eight-factor latent constructs as significant predictors of RLC in developing countries, which include demographic characteristics, dwelling units' features, neighbourhood features, services provided by the government, households' self-congruity, households' functional congruity, green building features, and stakeholders' relations. The major contribution of the study is the development of an integrated RCL model for developing countries.

Supervisor: Prof CO Aigbavboa

Co-supervisor: Prof WD Thwala

Mabotja, Tshepo Phuti (PhD) (Operations Management)

Tshepo Phuti Mabotja earned his bachelor's degree in Logistics from the Vaal University of Technology, South Africa. In 2018, he enrolled for a Master's degree in Operations Management at the University of Johannesburg, with a focus on warehousing, a critical component of the supply chain management process. He enrolled for the doctoral studies in Operations Management at the University of Johannesburg in 2020, with a focus on Supply Chain Management in the era of the Fourth Industrial Revolution.

The candidate developed an integrated supply chain management model for the steel manufacturing (ISCMM) industry. The ISCMM was theorised from a comprehensive review of extant literature and then validated through a two-round Delphi study and a structural equation modelling (SEM) analysis of the primary data gathered for the study. The model was validated using structural equation modelling (SEM) analysis. The study adds to existing knowledge on three levels. The levels are theoretical, methodological, and practical contributions. It contributes to theory by demonstrating the constructs and variables required for modelling SCM in the steel manufacturing industry. The mixed method used to solve the problem identified in this study contributed to the methodology, allowing for the development of an all-inclusive model for SCM in the steel manufacturing industry.

Supervisor: Prof CO Aigbavboa
Co-supervisor: Prof WD Thwala
Co-supervisor: Dr T Munyai

Maja, Pontsho William (Engineering Management)

William Maja Pontsho is from the rural village of Makweng in Zebediela, Limpopo province, South Africa. He completed his matric at Seraditola High School. He holds an MBA degree from Wits Business School, a BSc Honours in Management of Technology and an MSc in Technology Management from the University of Pretoria, a BTech in Process Instrumentation and Control from TUT, as well as a National Diploma in Electrical Engineering from Tshwane University of Technology. He is currently working for Orica Mining Services as Operations Excellence Manager for the Africa Region.

Recent advances in the development of technologies for the Fourth Industrial Revolution has led to the establishment of a set of Smart City Indicators to measure the advancement of city development. In this work, the candidate answered the question, “Which method can be used to derive Smart Rural Village indicators that are aligned with Industry 4.0”. Not only was a method using a six-step model developed but also a set of indicators produced for measuring the level of progress of a Smart Rural Village. The use of sustainable development goals was paired with the International Standard Organisation’s Smart Cities’ Indicator standard to design new indicators for rural areas that would measure their ‘smartness’ and ‘sustainability’. The conversion and decision criteria based their objectives on the following: smartness, sustainability and connectedness or use of information and communication technologies to connect. The research produced one internationally published journal and a second internationally accepted manuscript for journal publication.

Supervisor: Prof J Meyer

Co-supervisor: Prof S von Solms

Matlala, Humphrey Nkobeng (PhD) Engineering Management

Humphrey Matlala holds a BTech degree in Electrical Engineering from the University of Johannesburg, BSc Honours in Management of Technology from the University of Pretoria and a Master of Philosophy in Engineering Management from the University of Johannesburg. He is a member of South African Institute of Electrical Engineers (SAIEE), a registered Professional Engineering Technologist (Pr EngTech) with ECSA and also holds a global certification as a Project Management Professional (PMP) with PMI.

The candidate investigated how project and programme management could be used to deliver organisational strategy effectively and also the role that the Enterprise Portfolio Management Office (EPMO) should play in the management value chain of delivering projects and programmes that meet organisational objectives. Using both qualitative and quantitative research approaches, the study found that even though organisational leaders deem strategy execution as important for the growth and sustainability of their organisations, many organisations still do not realise value from their implemented projects. Often, they lack skilled personnel that could ensure that project portfolios in organisations are properly aligned to organisational strategy execution. The benefits delivered by implemented projects are not measured and tracked accordingly. The study also found that many organisations did not use the services of EPMO for strategy execution. In contributing to the knowledge base, this study derived a theoretical model through literature and the researcher's observation that could assist organisational leaders to effectively align their projects and programmes to organisational strategy execution.

Supervisor: Prof H Nel

Co-supervisor: Prof JHC Pretorius

Mkhize, Nompumelelo Patience (PhD) (Operations Management)

Nompumelelo Mkhize obtained her Bachelor of Arts in Health Sciences and Social Services from the University of South Africa. In 2012, she graduated with a Master's degree in Business Management with the Management College of South Africa (MANCOSA). She has submitted two journal manuscripts from the completed doctoral thesis.

In her study, the candidate developed a framework for airlines' growth in the era of the Fourth Industrial Revolution in South Africa. The developed framework was theorised from a comprehensive review of extant literature and then validated through an in-depth qualitative phenomenology process with context and thematic data analysis approaches. The framework theorises that South Africa airlines will attain sustained growth through the careful considerations of the identified variables of government factors, sector competition, sector knowledge, and strategic alliance with the influence of the technology updates. The study recommends that South African airlines should carry out external analysis on a continuous basis through PESTLE (Political environment, Economic factors, Socio-cultural factors, Technological changes, Legal issues, Environmental aspects), as through this strategy, South African airlines will be able to identify the external challenges that affect their business operations.

Supervisor: Prof WD Thwala
Co-supervisor: Prof CO Aigbavboa

Naicker, Samantha (PhD) Operations Management

Samantha Naicker completed her PhD in Operations Management at the University of Johannesburg in September 2022. Samantha occupied the position of Operational Specialist (Policy Research) within the South African Revenue Services from June 2011, and she is currently the Macro Economic Policy research specialist on national revenue management.

The research gap addressed by the study includes the framework to assess the effects on consumer behaviour following the implementation of the health promotion levy. Using the quantitative method, this study tried to determine if there was a trend in terms of how certain groups with similar traits react to the implementation of the levy. The data collected helped to test the hypotheses that by implementing the levy, consumer behaviour had been changed and consumers would now opt for more healthy alternatives to sweetened beverages. The contribution to the study explores various initiatives that need to accompany the levy on sweetened sugar beverage in achieving its aim of curbing obesity. These include allowing the industry to play a greater role in combating obesity with government campaigns to create more awareness of the harmful effects of excessive sugar consumption. One of the candidate's papers was presented in a conference in Rome this year and another was submitted to DHET accredited journals.

Supervisor: Dr E.I. Edoun

Co-supervisor: Prof Nita Sukdeo

Pillay, Kasandra (PhD) (Engineering Management)

Kasandra Pillay obtained a BSc Engineering (Electronics) degree from the University of KwaZulu-Natal in 2010. Thereafter, she obtained BEng and MEng Honours (Technology Management) degrees from the University of Pretoria in 2013 and 2016, respectively. She began her career at Sasol and is currently an engineer for the South African National Research Network (SANREN) at the Council for Scientific and Industrial Research (CSIR). She coordinates the Performance Enhancement and Response Team (PERT) within the National Integrated Cyberinfrastructure System (NICIS) and is registered as a Professional Engineer (Pr. Eng.) with the Engineering Council of South Africa.

The candidate's main focus of research is on modelling the adoption value-added services in national research and education networks, also known as NRENs. Her research made use of a design science research process, with a systems thinking approach and fuzzy cognitive maps. The research aimed to address the issue of understanding the complex relationships among factors of the NREN ecosystem to ensure sustainable adoption of NREN value-added services. This research has contributed to the development of a shared mental model and understanding of NRENs' value-added services adoption context. This assists with decision making and resource allocation for NRENs and their beneficiary institutions, to facilitate sustainable service delivery from NRENs to their research and education communities. It also offers a consolidated guide to existing NREN service management literature.

Supervisor: Prof JHC Pretorius
Co-supervisor: Dr L Erasmus

Rantsatsi, Ndaleni Phidias (PhD) Engineering Management

Ndaleni Phinias Rantsatsi obtained an undergraduate degree in Safety Management from the University of South Africa and an MSc in Construction Health and Safety Management from Nelson Mandela University. He is a registered professional Construction Health and Safety Agent. He has worked in the public and private sectors for the past 15 years. He is a lecturer at the Vaal University of Technology and a part-time facilitator at the University of Johannesburg.

In his research, the candidate developed a model for improving construction health and safety agent collaboration (CHSA) and influence on health and safety (H&S) performance in the South African construction industry. The model was theorised and developed based on a comprehensive review of extant literature, a three-round Delphi study, and a questionnaire survey. The predictive model to improve CHSA collaboration and H&S performance was evaluated and validated using the structural equation modelling technique. The model will be helpful to the government, professional bodies, and construction organisations to improve CHSA collaboration. The model places collaboration as a critical underpinning to sustainable CHSA influence on H&S performance. The candidate's work has produced two journal articles, and others are in the publication stage.

Supervisor: Prof I Musonda

Co-supervisor: Prof J Agumba

Singh, Nirdesh (PhD) Engineering Management

Nirdesh Singh has over 22 years' experience within the mining and minerals industry. He holds a Bachelor's degree in Chemical Engineering (2000) and a Master's degree in Engineering Management (2017). He was previously the Manager of the Small-Scale Mining Division at Mintek. Currently, he holds the position of Regional Operations Manager – Sub-Saharan Africa at ALS Inspection.

The distinction between artisanal and small-scale mining operations has caused much confusion within the sector over the years. The contribution of this research was to utilise multi-criteria decision-making and expert opinion tools to develop a definition of small-scale mining. A definition was formulated for the five most mined commodities by small-scale miners in Africa. The movement of mining operations was modelled as a continuum that uses a combination of business and mining classifications.

Supervisor: Prof AF Mulaba-Bafubiandi

Co-supervisor: Prof JHC Pretorius

JOHANNESBURG BUSINESS SCHOOL

DOCTORAL CV AND LAUDATION

Soon-Shiong, Patrick (Honorary Doctor of Philosophy)

The Johannesburg Business School is honoured to nominate Dr Patrick Soon-Shiong for the award of an Honorary Doctorate of Philosophy.

Dr Soon-Shiong is a much admired South African and a global scientific and business trailblazer. Maintaining utmost humility and as an energetic activist against South Africa's apartheid government, he emerged as one of the major success stories of our country. This he achieved despite repeated episodes of humiliation visited upon him being classified Chinese.

Patrick Soon-Shiong was born to Chinese immigrant parents in Gqeberha, South Africa, in 1952. He graduated top of his class from the University of the Witwatersrand, receiving a Bachelor's degree in Medicine (MBBCh) at age 23. Despite racial prejudice, he completed his medical internship at the Johannesburg General Hospital. He then earned a master's degree at the University of British Columbia in 1979, with research awards from the American College of Surgeons, the Royal College of Physicians and Surgeons of Canada, and the American Association of Academic Surgery. He moved to the United States and began surgical training at the University of California, Los

Angeles (UCLA), and became a board-certified surgeon in 1984. He is a Fellow of the Royal College of Surgeons (Canada) and a Fellow of the American College of Surgeons. He is married to former actress Michele B. Chan, has two children, and lives in Los Angeles, California.

Dr Soon-Shiong has established himself as an internationally respected transplant surgeon, businessman, bioscientist, and media proprietor. He is the inventor of the revolutionary drug, Abraxane, renowned for its efficacy in the treatment of lung, breast, and pancreatic cancer.

As the youngest professor of surgery in UCLA's history, he accomplished a milestone when performing the coastal region's first successful pancreas transplant. He also performed the first islet cell transplant in the world at St Vincent's Medical Center. By 1991, securing an investor, Dr Soon-Shiong launched a drug development company called VivoRx, and more companies – American Bioscience (to pursue cancer research), American Pharmaceutical Partners, NantWorks (an assemblage of start-ups aimed at next-generation pharmaceutical development), and Fierce Biotech (to revolutionise digital healthcare).

Dr Soon-Shiong is also a dedicated philanthropist and chairs several non-profit organisations. A patriot, he committed \$213 million to South Africa for COVID-19 vaccines and other therapies. He is also an accomplished scholar and has published more than 100 scientific papers and has more than 230 issued patents worldwide in the fields of technology and medicine.

His generosity to the poor and marginalised, substantial accomplishments and towering intellect epitomises the quest that is at the heart of the University of Johannesburg's mission to lead the continent in scientific endeavour. He is more than worthy of this honour and an exemplar of what we strive to achieve as South Africans.



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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.