GRADUATION DATE: 09 DECEMBER 2024

TIME: 14:30

FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

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

Master of Architecture (Professional)

BUTHELEZI, Mvelo Hilton

School of Architecture and Planning

Design Project: Designing for Comm[unity] Em[power]ment: A sustainable multi-purpose sports facility for social and environmental Impact

MATLANYANE. Samson Matlokotsi

School of Architecture and Planning

Design Project: Exhumation of forgotten souls: Indigenous knowledge systems and sustainable design approach to Patlong Village relocation and place of memory

MC CULLOCH, Claude Martin

School of Architecture and Planning

Design Project: HEALING from the Past; into the Future: Social-cultural and health remediation for a holistic wellness facility in Riverlea Township (Extension)

PILLAY, David Jonathan

School of Architecture and Planning

Design Project: Communal Equity: Reimaging Educational Infrastructure in Soweto

TSANG. Chun Man

School of Architecture and Planning

Design Project: Future Living: Exploring decarbonization in a mixed-use development for Waterfall City

Master of Engineering (Professional)

KHOZA, Nkosana

Mechanical, Industrial and Aeronautical Engineering

MATHOLE, Mposetse Esseu

Mechanical, Industrial and Aeronautical Engineering

MPHAHLELE, Matlale Milicent

Civil and Environmental Engineering

NGONYAMA, Milton Moswaba

Civil and Environmental Engineering

RAOPHALA, Selaelo Phedorian

Civil and Environmental Engineering

SELEKE, Itumeleng Isaac

Electrical Engineering

Master of Science in Aeronautical Engineering

BRAND, Darren Mark

DISSERTATION: Distributed electric propulsion on a joined-wing air-taxi

Master of Science in Building

JERAM, Deelan

DISSERTATION: An assessment of successful implementation of a blockchain based land registry in South Africa

KHOROMBI, Shadrack

DISSERTATION: Exploring the challenges to drone-aided inspections in construction site management.

MABALA, Mamoraka Dinah

DISSERTATION: Factors influencing homeownership for low-income households

Master of Science in Building

BHYAT, Romaana

CHAIBVA, Rueben

KASEKA, Zoe

MOHLAMME, Masakane Lydia

MOTHEJOA, Molai

MUNZHELELE, Pfarelo

NHLAPO, Pheello Eddie

PUNUNGWE, Fungai Agnes

Master of Science in Development Planning

SHIBAMBU, Nhlalala

Master of Science in Development Planning
RESEARCH REPORT: Exploring Developing Local Economies. Emerging local economies and displaced

urbanisation: The case of KwaMhlanga

Master of Science in Engineering

ACHARI, Dipika School of Electrical and Information Engineering DISSERTATION: Feasibility of region of Interest selection preprocessing using a multi-photodiode fingerprint-based

visible light positioning system.

AKPABIO, Aniekan School of Mining Engineering RESEARCH REPORT: Improving grade estimation using machine learning: A comparative study of ordinary Kriging

against machine learning algorithms

BAILEY, Douglas Gwyllm School of Chemical and Metallurgical Engineering

DISSERTATION: Vapour Phase Extraction: A Re-Evaluation

CHILOANE, Learn Leago

School of Electrical and Information Engineering

DISSERTATION: Exploring the Performance of a PV-Supplied Cooking System with Hybrid Electric-Thermal Energy Storage.

EFRAIM, Tangeni Daniel

School of Mining Engineering

RESEARCH REPORT: Assessing grade estimation uncertainty using conditional simulation techniques: Atlantic 1 Diamond Resource case study

FLAVELL, Erin Reece

School of Chemical and Metallurgical Engineering

DISSERTATION: Design of an industrial process for Enzymatic Cannabidiol conversion

FUNGENE, Thandiwe

School of Chemical and Metallurgical Engineering

DISSERTATION: Physico-chemical properties and treatment of scale formation in dust-scrubber discharge lines at a PGM Smelter in South Africa

GONSALVES, Ricardo

School of Mining Engineering

RESEARCH REPORT: Back analysis of previously stooped panels to improve safety and productivity of future stooping operations at New Denmark Colliery

IGA, Fortune Kayala (with Distinction)

School of Electrical and Information Engineering

DISSERTATION: Characterisation of standard Telecommunication fibre cables for Cost-Effective free space optical communication.

KAITANO, Caroline

School of Chemical and Metallurgical Engineering

DISSERTATION: A process systems analysis towards hydrogen pathways optimisation

KATUKULA, Brian School of Mining Engineering

RESEARCH REPORT: Evaluating the economics of constructing mine haul roads using Portland cement stabilization - a case study at Lumwana Mine

KHANGALE, Mulovhela Kennedy (with Distinction)

School of Electrical and Information Engineering

DISSERTATION: A study of the effect of temperature on cavity partial discharge in polyethylene (PE) insulation.

KIRUI, Gerald Kipruto (with Distinction)

School of Electrical and Information Engineering

DISSERTATION: Analysing test-driven development adherence in open-source projects using test-to-code traceability links.

KOTZE, Marius Hugo

School of Mechanical, Industrial and Aeronautical Engineering

RESEARCH REPORT: Metallic equivalent of aircraft landing gear using composite materials.

LEKHULENI, Tsholofelo Bernice

School of Chemical and Metallurgical Engineering

DISSERTATION: Simulation of a Wet Flue Gas Desulphurization (WFGD) plant in support of continuous grid supply of electricity and compliance to SO2 emission limits

LETSOALO, Future

School of Electrical and Information Engineering

DISSERTATION: Assessment of DC-DC converter selection metrics.

MABUNDA, Sara Nompumelelo

School of Mining Engineering

RESEARCH REPORT: Mineralogical and geochemical characterisation of iron ore tailings and their potential to generate toxic elements at Khumani Mine

MAIPUSHI, Sophy Mmatseleng

School of Mining Engineering

RESEARCH REPORT: The feasibility of Witwatersrand gold tailing as an alternative in cement manufacturing as a possible contributor to the circular economy

MAKONI, Steven (with Distinction)

School of Electrical and Information Engineering

DISSERTATION: Modelling OAM crosstalk with neural networks: Impact of Tip/tilt and lateral displacement

MALAMBULE. Thulani Mduduzi

School of Mining Engineering

RESEARCH REPORT: Application of data analysis and machine learning to develop a maintenance strategy for Load-Haul-Dump (LHD) machines at Booysendal Mine

MALEKA, Manuel Mmabi

School of Mining Engineering

RESEARCH REPORT: Developing a work management system to create an integrated and optimal short-term planning process at South Deep Mine

MAMBA, Ernest Bonginkosi (with Distinction)

School of Electrical and Information Engineering

DISSERTATION: A longitudinal study on the effect of patches on software system maintainability and code coverage.

MAREE, John Michael

School of Electrical and Information Engineering

DISSERTATION: Characterization of high-frequency time-domain effects arising from transmission line substitutions of reactive components in a buck converter.

MEELA, Princess Makone

School of Mining Engineering

RESEARCH REPORT: Impact of the mining charter on socio-economic development and mining investment attractiveness in South Africa

MEYEROWITZ, Reuben Benjamin

School of Mining Engineering

RESEARCH REPORT: Analysis of factors affecting rehabilitation of abandoned mines in South Africa: Cases on asbestos projects

MEYIWA. Lindani

School of Chemical and Metallurgical Engineering

DISSERTATION: Characterization of TW R260-60E1 Pearlite Rail Steel with a Weld Gap size of 40 mm and 50 mm

MHLANGA. Naobile

School of Chemical and Metallurgical Engineering

DISSERTATION: Carbon nanotubes application for lithium-ion battery anodes

MIYA, Mabontsi Koba

School of Electrical and Information Engineering

DISSERTATION: Breakdown strength influences of Titanium Dioxide nanoparticles on midel Canola-Based natural ester oil: A comparison between the anatase and rutile phases of Titanium dioxide.

MLOTSA. Cebile

School of Civil and Environmental Engineering

RESEARCH REPORT: The impact of South Africa's response to informal settlements and affordable housing when compared to the responses in India and Brazil

MOABELO, Matshidiso Tlou

School of Mining Engineering

RESEARCH REPORT: Investigating the influence of burden response on fragmentation at Sishen Mine

MODIKA, Moses

School of Mining Engineering

RESEARCH REPORT: A holistic approach to the design of two tonnes temporary support system (nets, mechanical props, hooks and roof bolt face plates)

MOKGOSI, Gomotsegang Millicent

School of Electrical and Information Engineering

RESEARCH REPORT: Comparative study on the accuracy of the conventional DGA techniques and artificial neural network in classifying faults inside oil filled power transformers.

MOKOENA, Lehlohonolo Christopher

School of Chemical and Metallurgical Engineering

DISSERTATION: Modelling of the distribution of coal tar product qualities from a tar distillation plant

MORROW, Sean Robert

School of Mechanical, Industrial and Aeronautical Engineering

DISSERTATION: The effects of rectilinear acceleration and deceleration on shock formation near a stationary boundary.

MUDAU, Thendo David

School of Civil and Environmental Engineering

RESEARCH REPORT: Improving bulk water pump station policies and operations in conditions of uncertain and changing demand

NAIR. Taurean Jevaldo

School of Chemical and Metallurgical Engineering

RESEARCH REPORT: An Investigation into the Effect of Advanced Gravity Separation on Platinum Group Metals (PGM) Flotation Concentrates.

NCUBE, Musawenkosi Gracious

School of Mining Engineering

RESEARCH REPORT: Investigation of long hole stope performance at South Deep Gold Mine

NGEMA. Sithandokuhle Fortune

School of Chemical and Metallurgical Engineering

DISSERTATION: Characterizing flotation processes of Platreef PGM ores: The applicability of models based on the Weibull and v rate constant distributions

NGWAMBA, Pamela Nadia

School of Civil and Environmental Engineering

RESEARCH REPORT: The removal of diclofenac, cypermethrin, ibuprofen and naproxen from wastewater using advanced membrane technology

NKAMBULE, S'thembile

School of Mining Engineering

RESEARCH REPORT: Open pit optimisation using Monte Carlo simulation: A case study of Kolomela Mine

NYARELA, Martin Sphiwe

School of Mining Engineering

RESEARCH REPORT: Impact of secondary rock-breaking equipment availability on mining plan in block cave mining

PEDRO, Martina Claudia

School of Mining Engineering

RESEARCH REPORT: The impact of the diamond mining industry on Angola's socio-economic development

PEREIRA, Gabriel Philip

School of Civil and Environmental Engineering

RESEARCH REPORT: Unlocking Sustainability: An Exploration of the Potential for Food Waste Conversion into Energy and Value-Added Products for Effective Landfill Diversion in South Africa

PRETORIUS. Marthinus Wessel

School of Mining Engineering

RESEARCH REPORT: Electronic regulatory-safety data-capturing and reporting solution - A pilot study

RABE, Magdeleen

School of Civil and Environmental Engineering

RESEARCH REPORT: The impact of incorrectly-sized bulk water meters on water consumption and municipal revenue

RALIENGOANE. Mankoe Francis

School of Civil and Environmental Engineering

DISSERTATION: DETERMINING THE PARAMETERS FOR THE SIZING OF SEDIMENT TRAPS IN THE CITY OF JOHANNESBURG

RAMATSOMA. Mafeni Samuel

School of Chemical and Metallurgical Engineering

DISSERTATION: Development and Experimental Validation of an Acid Mine Drainage Prediction Tool based on Mineral Particles

RIVETT, Stephanie Anne

School of Chemical and Metallurgical Engineering

DISSERTATION: A Life Cycle Assessment of Plastic vs Cardboard Packaging in the Fast-Moving Consumer Goods Market

SEABELA, Mogaleadi Sandra

School of Mining Engineering

RESEARCH REPORT: The relationship between human factors and technology adoption at Sishen Mine

SELEMATSELA, Neo Edwin

School of Electrical and Information Engineering

DISSERTATION: Performance modeling of cognitive NOMA-aided IoT networks with energy harvesting.

SHAW. Kyle Lloyd

School of Civil and Environmental Engineering

RESEARCH REPORT: Assessment of in-service durability performance of Natural Draft Cooling Towers in a Petrochemical environment

SHONHAI. Natsai

School of Chemical and Metallurgical Engineering

DISSERTATION: Investigation of corrosion behaviour of Aluminium Alloy 7075 processed by Laser Shock Peening without coating

SIMANI, Kyppy Ngaira

School of Electrical and Information Engineering

DISSERTATION: Investigating design parameters for practical load forecasting of grid-interactive Buildings using LSTM.

STEENKAMP, Daniël Johannes (with Distinction)

School of Electrical and Information Engineering

DISSERTATION: Navigating the Underground: Assessing Vision-Based SLAM Methods in Simulated Subterranean Scenarios.

TATI, Buntu Bantu School of Mining Engineering

RESEARCH REPORT: Support design for wide stoping heights resulting from footwall lifting of previously mined Merensky panels

TSORIYO. Vincent School of Mining Engineering

RESEARCH REPORT: Large-scale mining and artisanal and small-scale mining partnerships for sustainable socio-economic development in Zimbabwe

WALSH, Trevor Andrew

School of Mining Engineering

RESEARCH REPORT: A review of the stope support system at Impala Bafokeng North Shaft owing to stope closure at shallow mining depths

Master of Science in Engineering Management

ASAMOAH-BEKOE, Michael Kwasi

RESEARCH REPORT: The optimisation of the software development lifecycle utilised in the delivery of digital healthcare products.

PITSWE, Odirile

RESEARCH REPORT: Assessment of quality management in major projects in the mining industry in Botswana.

SEREPA, Ikaneng Nicole

RESEARCH REPORT: Financial evaluation of implementing of in-pit crushing and conveying systems for waste on open pit mines.

Master of Science in Industrial Engineering

CAMACHO DE GOUVEIA, Claudia Dominique

DISSERTATION: Prediction of water hyacinth coverage on Hartbeespoort dam.

MATHE, Barney Clive

RESEARCH REPORT: e-Commerce adoption in South African SMMEs.

NEMAKHAVHANI, Pfananani Thelma

RESEARCH REPORT: An analysis of factors leading to the production of defective wagons in Transnet engineering.

PUNGULA, Vusumuzi

RESEARCH REPORT: Supply chain risk management in manufacturing small and medium enterprises: a systematic literature review.

RAPETSOA, Maisaya Hellen

RESEARCH REPORT: The development of cannabis in emerging markets - evaluating the prospective value chain, market accessibility, and commercialisation.

SUKAZI, Thobile Nomalungelo

RESEARCH REPORT: The improvement of on-time delivery for "company X" e-commerce orders during the golden quarter.

TSHIKOVHI, Rilwele Mikovhe Muditambi

RESEARCH REPORT: The assessment of exploration processes in the upstream industry to increase exploration efficiency and promote accelerated drilling decisions.

TSOMOLE, Molebohena

RESEARCH REPORT: Investigating factors that impact the replication of operational excellence programs across the global operations of a top global mining company: the case of Rio Tinto.

Master of Science in Mechanical Engineering

BHARTU, Saahil (with Distinction)

DISSERTATION: Characterisation, modelling, finite element analysis, and optimisation of hyperelastic materials for non-pneumatic wheels.

CHINYAMA. Joel

DISSERTATION: Fatigue crack propagation in alsi10mg additive manufactured aeronautical parts processed by laser shock peening.

GARG, Arnav

RESEARCH REPORT: Inventory management using artificial intelligence.

MANQELE. Gladwell Sizwe

RESEARCH REPORT: Measurement of combustion air flow into burners in coal-fired plants.

SHAW, Craig Byrne

DISSERTATION: Aerodynamic force variation on a trailing MotoGP motorcycle in a corner.

Master of Science in Systems Engineering

LYDALL, Peter Wykeham

RESEARCH REPORT: Understanding the challenges of implementing an effective requirements analysis process within an engineering R&D environment.

NAIDOO, Pranell (with Distinction)

RESEARCH REPORT: Investigating the impact of railway signalling performance on railway operations & performance in South Africa.

SEKWATI, Loeto Levious

RESEARCH REPORT: Investigating the flow of information in a surface iron ore mining operation.

Master of Urban Design

DONGA-MATAMBO, Thandeka

RESEARCH REPORT: Urban Design Coding. A qualitative study into the relevance of urban design coding in informal settlements: The case of Mushroomville Settlement, Centurion, Pretoria, South Africa.

Master of Urban Studies

CHUMA, Rirhandzu Sharon

Housing and Human Settlements

RESEARCH REPORT: Evaluating the state's response to flooding disasters: The case of Deelpan Village Emergency Housing

HENDRICKS. Denver Mark

Urban Politics and Governance

RESEARCH REPORT: The interface between the middle-class neigbourhood and the local state: A case study of Melville, Precinct Plan, Johannesburg

MANTSHOANE, Trevor Matuba

Urban Management

RESEARCH REPORT: "Artful sustainability" Inquiry into urban waste and public space practices: A case study of Riverside View Mega City, Johannesburg

MARERE, Nozipho Pauline

Urban Management

RESEARCH REPORT: Community (mis)participation in Urban Green Space restoration: A case of the Wilds Nature Reserve, Johannesburg

MAZAMANE, Zintathu Sigcine

Urban Management

RESEARCH REPORT: Investigating ways in which the profile and identity of women affects their capacity to work effectively in the urban management field

TAYLOR. Jamie Anne

Sustainable Energy Efficient Cities

RESEARCH REPORT: Towards Net Zero Energy: Enhancing wastewater treatment sustainability with energy efficiency and biogas integration. A case study of the Western Cape

TEFFO, Dimpho

Sustainable Energy Efficient Cities

RESEARCH REPORT: An Imbokodo cooperative model for wheeling rural-generated solar-PV electricity to facilitate clean induction-stove cooking among low-income urban households in South Africa

TEPKENY, Gloria Urban Management

RESEARCH REPORT: An evaluation of City Improvement Districts in promoting positive socio-spatial structures and management processes: A case study of Hillbrow Ekhaya Improvement District, Johannesburg

Master of the Built Environment

MOTUPA, Dikeledi Jaqueline

School of Architecture and Planning

RESEARCH REPORT: 'Stokvels' as an alternative housing finance mechanism: A case study for 'Masakhe' Ladies in Gugulethu

Bachelor of Science Honours in Construction Management

PHIKE, Zanokuhle

RAMATHUBA, Mulunde Lehlohonolo Preddy

SKOSANA, Matlhatsi Nhlanhla

Bachelor of Science Honours in Property Studies

DIBILONG, Koketso Portia Bachelor of Science Honours in Property Studies

NOBEVU, Axole Bachelor of Science Honours in Property Studies

RADEBE, Chumeza Jennet Bachelor of Science Honours in Property Studies

Bachelor of Science Honours in Quantity Surveying

MOHLABA, Mpidiseng Emash (with Distinction)

MOTHA, Siyabonga Sive

MUSEMBWA, Valerie Nonceba

SIAVHE, Khuliso

TILESE, Neliswa Jesica

UBISI, Calvin Thato

ZANTSI, Anda Khungelwa

Bachelor of Science Honours in Urban and Regional Planning

MSIPHA, Langelihle Israel

Bachelor of Science in Engineering-Aeronautical Engineering

ALONI, Trymore Sylvester

ARISTIDES, Antonio

CHETTY, Castello

HADEBE, Sanele Daluxolo

HARIPERSAD, Sahiel

MOODLEY, Sazryn

ROOKEN-SMITH, Gregory Max

Bachelor of Science in Engineering-Chemical Engineering

DAVHULA, Rendani Precious

MASHAKOE, Madimetja Dimpho

Bachelor of Science in Engineering-Civil Engineering

DLAMINI, Zamindlela

KGOMOESOANA, Tetelo

KWAPA, Moeponi

LEKALAKALA, Piet Matsobane

MAHLANGU, Walter

MAKGALE, Thato Aobakwe

MALAZA, Vuyiswa Gugu

MATABANE, Kagiso

MDHLULI, Musa Phillip

MOLOTO, Mosima

Bachelor of Science in Engineering-Electrical Engineering

BANYINI, Thabang

HADEBE, Lithemba

HLONGWANE, Mbongeni Perfect

JEEVAN, Milan

MAAKE, Success

MANJRA, Ishak

MARINDI, Kaddy

MKHIZE, Skhulile Prosperious

MOTSEPE, Thato

MURADYA, Anotidaishe Nicole

NKOSI, Sizwe Siyabonga

SITHOLE, Ishmael

SKOSANA, Jabulani Shaun

Bachelor of Science in Engineering-Electrical Engineering - Information Engineering

MALAZA, Siphamandla David

MASOGA, Mandla Albert

MCHUNU, Lethiwe Thandolusha

MTSHELWANE, Themba Martin

NAIDOO, Kevin Nelson

SIJADU, Sphumelele

Bachelor of Science in Engineering-Industrial Engineering

MSOMI, Snethemba Ndumiso

SNYDERS, Ifeanyi Gregory Lance

Bachelor of Science in Engineering-Mechanical Engineering

BHEMBHE, Ntsizwa Alfred

CHOONARA, Nabeel

GRIFFIN, Troy Aaron

HLETA, Yenzokuhle Sisekelo

MOOI, Ozayo

NAIDOO, Zaid

NKOSI, Sandile Sphesihle

PADAYACHEE, Arushin

POPOOLA, Mercy Olubusola

RADEBE, Xolani

SITHOLE, Sibusiso Siyabonga

WILMOT, Matthew lain

Bachelor of Science in Engineering-Metallurgy and Materials Engineering

HODIE, Noxolo

Bachelor of Science in Engineering-Mining Engineering

KHUNWANA, Nditsheni

MAHLANGU, Rosette Nomvula

MAPHANGA, Bahloliwe Nthabiseng

MASETI, Sinovuyo

MOKHOMOLE, Matome

PETA, Kgopotso Agnetious

Bachelor of Science in Property Studies

MOHALANE, Bohlale

Bachelor of Architectural Studies

NGXAMNGXA, Zukiswa Nandipha

Bachelor of Engineering Science in Biomedical Engineering

CHITSWAMATOMBO, Marcus Takudzwa

JAMES, Jon-Jon Michael

NXUMALO, Simlindile Nokukhanya

Bachelor of Science in Construction Studies

AZONG, Lisa Ngwe Fri

GOVENDER, Reece Andrew

GOVENDER, Tharusha

MALEKE, Khensane Mama Joanitah

MANDLATE, Mike

MATSEPE, Neo

MOSUE, Otsile Koketso

MSIZA, Bheki Sibusiso

NDARALA, Anda

NDLOVU, Samkelo

PALEDI, Boitumelo Sealana

POTO, Refentse Rebecca Sarah

SHAIKH, Muhammed Noushad

TSINENG, Maatla Olorato

VINJWAYO, Aseza

Bachelor of Science in Urban and Regional Planning

MZIMELA, Ntuthuko Minenhle

REDDY, Jeshlen

Postgraduate Diploma in Engineering

CHOMA, Kapudi Aubrey School of Mechanical, Industrial and Aeronautical Engineering

KABWAYI, Laurent-Daphne Kitopi School of Chemical and Metallurgical Engineering

LETAGENG, Khomotso Nthoge School of Electrical and Information Engineering

MALOLA, Mabu School of Chemical and Metallurgical Engineering

MASUKU, Sibongile Sophy School of Chemical and Metallurgical Engineering

MDLALOSE, Mbongiseni Jetro Nqobani

School of Electrical and Information Engineering

MUSI, Yolanda

School of Electrical and Information Engineering

SEKGALA, Kgaugelo

School of Chemical and Metallurgical Engineering

Postgraduate Diploma in Planning

NXUMALO, Busisiwe

Postgraduate Diploma in Property Development and Management

MAZIYA, Kholiwe Stacey Fikiswa

MKHULISA, Nhlanhla Nsizwa Patrick

MOREKURE, Shimane Simon

PHEHLANE, Reginald Tshepo