

FACULTY OF ENGINEERING, THE BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

DIPLOMA IN BUILDING

COETZEE, Jacques
DUCKITT, William Charles
DZINA, Litha Khanya
ERASMUS, Juandre
FERREIRA, Wihan
FIGLAN, Mbasakazi
GQIBELA, Sixolile Moses
GWELANA, Samkelo
HIGGINS, Chadley Garth
KUPA, Sibabalwe Salizwa
LATEGAN, Jan Jacobs
LILA, Ongezwa
MAGOLOZA, Aphiwe
MATWA, Mckokisi Nceba
MAXONGO, Azile
MHLARHI, Ndzalama Clairvius
MIYA, Zamakahle Zisebenzele Vusumuzi
MLUNGISI, Kenny
MTALO, Onwaba
NDLOVU, Phumlani Johannes
NGUQU, Athenkosi
PANSEGROUW, Peter John Hildebrandt
PANTSU, Bulumko
VISSER, Marne
VOKO, Amandla Yonela
WATSON, Ruaan
WUCHERPFENNIG, Bradley John

CUM LAUDE

ASENI, Sakhumuzi Willington
MACINGWANE, Siphokazi Duduzile

NATIONAL DIPLOMA: BUILDING

CHAUKE, Shalati Gillian
DIXON, Stuart Vaughn
MANTO, Siphwokuhe Sibulele
PLAATJIE, Siyabonga Nelson
SOGANGA, Kanyisile Zintle Joy

BACHELOR OF TECHNOLOGY: CONSTRUCTION MANAGEMENT

CELE, Lungani Magnificent
CUBUNGU, Aphiwe
DE VOS, Dirk
DU TOIT, Christiaan
DWESI, Zuko
DYESHANA, Cwayita Nwabisa
FINI, Aphiwe
FORTUIN, Chelsea Claire
FRIEBE, Andrich
FRIEBE, Ryno
GCELU, Thembela
GONSLIN, Ruwaan Mark
GOOSEN, Joshua
GOUWS, Wikus
GWEBANI, Sibulele
GWILIZA, Mphumzi
JACOBS, Andries Johannes Stephanus
JOHNSON, Cloudia Venecia
KETELO, Nonkululeko Primrose
KETSHANE, Asive Pretty Kanyisile
KUNJU, Maqomonke Sisa Keith
KUTTA, Sixolile
MAFEKING, Athenkosi Estelle
MAGONGO, Mzwamadoda
MAGUBENI, Zikhona Phelisa
MBATHA, Xolile Mbali
MBOMBO, Nkosiphendulo Pezi
MKIZWANA, Zingaphi
MONYEMORATHO, Kgabo Puleng

MPUMLO, Sibahle
MTUBU, Siphumeze Manyano
NAMNTU, Kwezikazi
NDAMASHE, Azile
NDWEBI, Viwe Unathi
NKAYI, Nomawethu
NOKWE, Siphokazi
NONKWALI, Ezile
NTLANTI, Justice Simpiwe
NYULU, Sipiwosenkosi
PHAKOANA, Phila
PHALENG, Lesego Mmetja Fortunate
PHOHLONGO, Ngazibini Zama
PINZI, Zintle
POTGIETER, Andre
PUTUMA, Sinovuyo
SEMANE, Lombe
SIBALI, Asiphe
SIZIBA, Nandipha Sweetness
SMIT, Tiaan
SMITH, William Henry Thomas
SOKAPASE, Namhla
STANVLIET, Louhan
TONJENI, Amandla Mary
ZWANE, Mbongeni

CUM LAUDE

BRUSSOW, Neil
GROBLER, Christian Boshoff

BACHELOR OF TECHNOLOGY: ENGINEERING: ELECTRICAL

BAARTMAN, Lwazi
COETZER, Armand
DEGI, Inala Edison
DILINGA, Yandisa
DRAAI, Alroy Peter
HORNBY, Graeme Michael
KRIEL, Brendon Mark
LINDLEY, Brandon Patrick
MUSA, Pekosela Samuel
NEKU, Sinethemba
NKOSI, Nceba Leon
SCHENK, Jayden John
SIGANGA, Zubenathi
SIHELE, Vazi
THOMSON, Brettany Bianca
VAN ANTWERPEN, Ryan Thorfinn
VAN GREUNEN, Elandrié Daniël
WAIT, Alex Lodewyk
YAMANI, Sinetemba
ZINJA, Nomfundo Jane

BACHELOR OF TECHNOLOGY: ENGINEERING: INDUSTRIAL

BONEPARTE, Dannelicia Herisha
BOTHMA, Jacques
FILITA, Nombulelo Millicent
GALADLA, Nasiphi Qawekazi
GOLIATH, Dylan
HLANGANYANA, Siphemathi
ISAACS, Kayla-Ray
KELLER, Johann Martin Fredrich
LEUTLOA, Tshepang
LUSITHI, Buchule
MBAMBOSI, Mangaliso Vuyisa
MFOKAZI, Kanyisa Yamkela
MHLONGO, Sindi Belinda
MODIAKGOTLA, Siyamkela Thato
MSAPA, Treasure Hlulani
MUNNIK, Charlin Faith
NABO, Asemahle
NJADAYI, Ayabulela
NOFEMELA, Mbulelo Keith
NQAKULA, Sikelelwa
PRETORIUS, Emile Deon
QUDE, Akholiwe

RAGIMANA, Ngudo
SIYANGAPHI, Indiphile
STEADY, Kyle
TERBLANCHE, Enzo Clayton
TSHETSHE, Sakhumzi Reginald
VUKE, Lizo
XATOTO, Lithemba Mmangalisu
ZONDANI, Anivuyina

CUM LAUDE

COERTZE, Juan
SCHOEMAN, Nicole Therese
SELOANE, Tarryn Leigh

**BACHELOR OF TECHNOLOGY: ENGINEERING:
MECHANICAL**

BOGGENPOEL, Kyle Hugh
DE WIT, Jean
MKOYANA, Esethu
MNGOMENI, Bathandwa
MOOLMAN, Izak Hendrik
NORTH, Dale Benjamin
SERFONTEIN, Ruth Inga
SHAIKH, Junaid
SMITH, Timothy David Steele
STEYN, Brett Luke

CUM LAUDE

TAYLOR, Kyle Joshua

**BACHELOR OF TECHNOLOGY: OPERATIONS
MANAGEMENT**

ADONISI, Tabonyana
AMODJEE, Omar Farouk
BILIBANA, Lulamela
ERASMUS, Enrique Wentworth
JAMAL, Feizal
JEKWA, Mkululi
JOHNSON, Rakshana Rachel
KAMBALE, Ngise Mulumbi
KLINGELHOEFFER, Linzee Anne
KRITZINGER, Hano
LUCAS, Khaya
LUCAS, Tyran Donovan
MABENGE, Luvuyo
MALEKI, Mandisa
MANI, Vuyo Edward
MATROOS, Enrico Cheslin
MEHLO, Sivuyile Raymond
MKONTO, Luvo
NETNOW, Fiona Devinia
NGALWANA, Sibahle
NGQALAMBA, Ntombovuyo
NQARI, Ncedisa
PETERSEN, Rinaldo Winston
QUZA, Ziyanda
RATSHOTHE, Lutendo
SILVA, Byron Leon
SOMFULA, Thamsanqa Arthur
STUURMAN, Terrence
TSHAM, Novuyolwethu Charlotte
VERMAAK, Thompson Brumilda
WICOMB, Damien Marshall
ZOKOZA, Mzikayise Bethwell

CUM LAUDE

MULLER, Michael

BACHELOR OF TECHNOLOGY: QUALITY

BOSWELL, Rene Derick
BOTUA, Lukanu Daniel Auxance
DAMONS, Monica Patricia
GOLIATH, Gustav Kurt
QAMLANA, Tembaletu
HANS, Garth Charlton
HILES, Keegan Antonio
HOKO, Siyabulela
LETSIE, Kholofelo Vanessa
LUSI, Phakamile Given
MAJIKI, Yonela
MAKANANDA, Lungiswa
MAKAPELA, Busisiwe
MBENYA, Kulisa Piwokazi
MBUBE, Thumeka Mable
MDUNGE, Nongcebo Vuyiswa Sithembiso
MTYA, Siyanda
NDLOVU, Tiyani
NETSHIDZIVHANI, Lutendo Alistair
NOQOBO, Melikhaya
NTSHEKISA, Xoliswa
OTOKOLO, Seiyefa Boardman
PARAFFIN, Olwethu
PHARAOH, Manfred Haylon
QIKWA, Nyameka
SONQISHE, Yanga Sandiso
THOMPSON, Carlo Romeo
TSHISEKA, Vulikhaya
WITBOOI, Jade Hewbury
WOLMARANS, Dusti Zane

BACHELOR OF TECHNOLOGY: QUANTITY SURVEYING

BODLANI, Zizo
DOTYE, Mthembeni
GOBODO, Wonga Mzuvukile
GQABAZA, Vuyisa Anathi
HAWU, Qhama
JAEGER, Nicolay
KOKETE, Athenkosi
KOORTS, Cornelis Rall
MACINGWANE, Msekeli
MAZWI, Zipho
MBANGA, Andiswa
MPONCO, Qhawe Mcebisi
MTINTSILANA, Liyakhanya
NDEVU, Yamkela
NGQONGONYA, Sibusiso
NGWAQA, Zukisani
NONYONGO, Khaka Mmandisi
NTAMO, Liyabona
NTIKINCA, Bathabile
QUMBA, Mthetheleli
SIHLAHLA, Asavela
SITYATA, Zizipho
SMITH, Angelique
SOTOMELA, Esethu Ovayo
TILESE, Neliswa Jesica
VAN AS, Gerhard Hermanus
ZUMA, Mondli

CUM LAUDE

HILLS, Hanno Ludolf
LAVISA, Lungelo Patwa
NGQEKEZA, Simpiwe Lolwethu
VAPI, Asanda Primrose

**BACHELOR OF SCIENCE HONOURS IN QUANTITY
SURVEYING**

MKHAVELE, Masana
NAIDU, Emile

FACULTY OF ENGINEERING, THE BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

MASTER OF ENGINEERING IN MECHATRONICS (RESEARCH)

MALINDA, Muema - **Cum Laude**

Title of dissertation:

CHARACTERISATION OF SINGLE EVENT EFFECTS AND TOTAL IONISING DOSE EFFECTS OF AN INTEL ATOM MICROPROCESSOR

Supervisor: Prof F Smith

MASTER OF SCIENCE IN THE BUILT ENVIRONMENT (COURSEWORK)

BINQELA, Lukhanyo - **Cum Laude**

(Project Management)

Title of treatise:

THE INFLUENCE OF BRIEFING IN EASTERN CAPE GOVERNMENT PROJECT OUTCOMES

Supervisor: Prof WWM Shakantu

LOMBARD, Daniel - **Cum Laude**

(Project Management)

Title of treatise:

CRITICAL SUCCESS FACTORS OF SOUTH AFRICAN CONSTRUCTION COMPANIES

Supervisor: Prof GJ Crafford

MAKELENI, Nokukhanya Precious

(Facilities Management)

Title of treatise:

AFFORDABILITY OF HOUSING IN THE GAP MARKET: A CASE OF WALMER LINKS IN PORT ELIZABETH, SOUTH AFRICA

Supervisor: Prof SL Mbanga

MOTAU, Simon Mosotho

(Project Management)

Title of treatise:

QUALITY OF SUBSIDISED HOUSING IN SOUTH AFRICA AND THE ROLE OF THE NATIONAL HOME BUILDERS REGISTRATION COUNCIL

Supervisor: Prof SL Mbanga

SIPUNGELA, Nosipo Agreenett

(Facilities Management)

Title of treatise:

THE UTILITY OF FACILITIES MANAGEMENT IN ALLEVIATING POOR SERVICE DELIVERY AT POLOKWANE DEPARTMENT OF PUBLIC WORKS

Supervisor: Prof WWM Shakantu

TAFT, Giovanni Sinclair

(Project Management)

Title of treatise:

THE SUSTAINABILITY OF SMALL, MEDIUM AND MICRO ENTERPRISES WITHIN THE NELSON MANDELA BAY METROPOLE

Supervisor: Prof WWM Shakantu

TYINDYANA, Xolile
(Construction Management)

Title of treatise:

THE CHALLENGES OF PROFESSIONAL WOMEN IN A MALE-DOMINATED SOUTH AFRICAN CONSTRUCTION INDUSTRY

Supervisor: Prof GJ Crafford

DOCTOR OF PHILOSOPHY IN CONSTRUCTION ECONOMICS

MONYANE, Thabiso Godfrey

Title of thesis:

A LEAN-LED EVALUATION OF INFRASTRUCTURE DEVELOPMENT IMPROVEMENT PROGRAMME IN SOUTH AFRICA

Supervisor: Prof GJ Crafford

Co-supervisor: Prof FA Emuze

DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

ALUMBUGU, Polycarp Olaku

Title of thesis:

CONSTRUCTION MATERIAL LOGISTICS MANAGEMENT: THE CASE OF NORTH CENTRAL NIGERIA

Supervisor: Prof WWM Shakantu

IBRAHIM, Kabir

Title of thesis:

A FRAMEWORK FOR ETHICAL SOURCING OF CONSTRUCTION MATERIALS

Supervisor: Prof WWM Shakantu

SMITH, Christoffel

Title of thesis:

A THEORETICAL MODEL OF HEALTHCARE FACILITIES DELIVERY THROUGH PUBLIC PRIVATE PARTNERSHIPS IN SOUTH AFRICA

Supervisor: Prof CM Adendorff

Co-supervisor: Prof B Botha

TSADO, Abel John

Title of thesis:

INNOVATION: ITS IMPACT ON THE SUCCESS OF CONSTRUCTION MICRO, SMALL AND MEDIUM ENTERPRISES IN NORTHERN NIGERIA

Supervisor: Prof WWM Shakantu

DOCTOR OF PHILOSOPHY IN ENGINEERING

JUMARE, Abubakar Is'Haq

(Mechatronics)

Title of thesis:

ULTRA-HIGH PRECISION MACHINING OF SILICON FOR INFRARED OPTICS

Supervisor: Prof K Abou-El-Hossein

DOCTORAL CITATIONS

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION ECONOMICS

THABISO GODFREY MONYANE

Previous qualifications:

2004 BTech Quantity Surveying
2013 MTech Quantity Surveying
2014 BSc Hons Quantity Surveying

Central University of Technology
Tshwane University of Technology
University of the Free State

Thesis:

A LEAN-LED EVALUATION OF INFRASTRUCTURE DEVELOPMENT IMPROVEMENT PROGRAMME IN SOUTH AFRICA

The prevalence of public sector projects running over budget calls for relevant stakeholders to address cost performance issues in the construction industry. The study identified the causes of the underwhelming cost performance for public sector projects. Projects and associated interviewees were purposively selected to ensure data alignment to the subject matter and cost management. The data from the interviews was compared with the evidence from project-related documents to develop a framework that was validated through relevant expert interviews and conducted among construction experts. Emergent data supports the need for a collaborative cost management model (CCMM) to improve the performance of public sector projects.

Supervisor: Prof G Crafford
Co-Supervisor: Prof FA Emuze

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

POLYCARP OLAKU ALUMBUGU

Previous qualifications:

1995 BTech (Quantity Surveying)
2001 MSc (Construction Management)

Federal University of Technology, Minna
University of Jos, Plateau State

Thesis:

CONSTRUCTION MATERIAL LOGISTICS MANAGEMENT: THE CASE OF NORTH CENTRAL NIGERIA

The study was inspired by the view of scholars that the management of construction material logistics can reduce the clients' cost of construction. It therefore, addressed the operational performance of construction project logistics. The study measured the operational effectiveness and performance of construction material manufacturers' logistics systems in North-Central Nigeria. The findings led to the conclusion that, warehouse and transport operations and processes, technology and automation of logistics operations, were inefficient; and delivery of material to customers was ineffective. The study developed a framework for effective and efficient material logistics management and recommends that organisations should utilise the framework developed to enhance the efficiency and effectiveness of construction material logistics.

Supervisor: Prof WWM Shakantu

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

KABIR IBRAHIM

Previous qualifications:

2010 BTech (Building)

Federal University of Technology, Minna

2013 MSc (Construction Management)

Ahmadu Bello University, Zaria

Thesis:

A FRAMEWORK FOR ETHICAL SOURCING OF CONSTRUCTION MATERIALS

This study investigated the ethics of sourcing of materials in the Nigerian construction industry. The findings reveal that the majority of the processes employed to produce, transport and source materials for the construction industry do not meet the prescribed environmental ethics norms due to their excessive contribution to air, water and noise pollution, vibration, landscape damage, as well as harm to flora and fauna and associated waste production. Moreover, the majority of the organisations studied, do not produce the mandatory annual sustainability reports for their operations. The study developed a framework for ethical sourcing of construction materials and recommends that organisations should utilise the framework developed to enhance their sourcing ethics and improve their sustainability practices.

Supervisor: Prof WWM Shakantu

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

CHRISTOFFEL SMITH

Previous qualifications:

1987 BCom (Accounts)

University of Johannesburg

1991 BCom (Hons) (Financial Management)

University of Johannesburg

1995 MCom (Business Management)

University of Johannesburg

Thesis:

A THEORETICAL MODEL OF HEALTHCARE FACILITIES DELIVERY THROUGH PUBLIC PRIVATE PARTNERSHIPS IN SOUTH AFRICA

The United Nations Member States adopted Sustainable Development Goals which includes Universal Health Coverage or equal access to essential quality healthcare services and medicines for all, by 2030. Rising healthcare demand and associated costs are being fuelled by *inter alia* an aging population, growing prevalence of chronic diseases and costly clinical innovations. That means governments require assistance to improve access to healthcare. This research supports the fact that private healthcare innovation and efficiency can meaningfully contribute, by way of Public Private Partnerships, to the improvement of access to and affordability of quality healthcare services to ensure that no one is left behind.

Supervisor: Prof CM Adendorff
Co-Supervisor: Prof B Botha

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

ABEL JOHN TSADO

Previous qualifications:

2000 BTech (Quantity Surveying)

Federal University of Technology, Minna, Nigeria

2006 MSc (Construction Management)

Ahmadu Bello University, Zaria, Nigeria

Thesis:

INNOVATION: ITS IMPACT ON THE SUCCESS OF CONSTRUCTION MICRO, SMALL AND MEDIUM ENTERPRISES IN NORTHERN NIGERIA

The purpose of the study was to explore the effect of innovation on the success of Northern Nigerian micro, small and medium construction enterprises. From the theoretical and conceptual frameworks, on which the purposive qualitative research method was anchored, it was demonstrated that technological application, logistics and labour innovations impact on the profit, capital, customer base, workers and products of the enterprises studied. The study also discovered an absence of systems to support innovation. Thus, it developed an innovation system framework for effective and efficient innovation management and recommends that organisations should utilise the framework developed to enhance the utility and effectiveness of construction innovations.

Supervisor: Prof WWM Shakantu

DOCTOR OF PHILOSOPHY IN ENGINEERING (MECHATRONICS)

ABUBAKAR IS'HAQ JUMARE

Previous qualifications:

1999 Bachelor of Engineering (Mechanical)

Bayero University, Kano, Nigeria

2012 Master of Engineering (Production)

Bayero University, Kano, Nigeria

Thesis:

ULTRA-HIGH PRECISION MACHINING OF SILICON FOR INFRARED OPTICS

Difficult-to-machine materials such as Silicon are characterized by poor machinability due to their hardness and brittleness. Fabrication of ultra-high precision optical components became a great challenge to the optical fabrication industry while demand is high. However, application of design of experiment, nanometric ultra-precision machining and optimization techniques allowed for the determination of optimum machining parameters that led to realization of mirror-like surface finish on silicon optics using diamond turning process. The optical surfaces generated conform to the quality requirements of infrared (IR) lenses for aerospace, automotive, medical and other optical applications.

Supervisor: Prof K Abou-El-Hossein