

CONGRATULATORY MESSAGE

Graduation is a milestone event deserving of celebration. It is the culmination of an academic journey over many years in which you worked hard, persevered and no doubt overcame many challenges. You and your loved ones have made many sacrifices in pursuit of your qualification. You have acquired new knowledge in your chosen field, and grappled with matters deserving of our collective attention, like sustainability, poverty and social injustice.

Yes, such a crowning moment in your life must be acknowledged and celebrated with pride and joy.

This joy is ours too, for graduation is the highlight of our University calendar as we witness successful students cross the stage to be capped and enter a new chapter of their lives. Each of you has a unique story to tell and an exciting journey ahead.

While we are confident that Mandela University has equipped you with an excellent academic qualification for the challenges of life and work to come, we are equally hopeful that you will live the legacy of our namesake.

With the honour of being the only University in the world to bear the name of one of the world's greatest icons, Nelson Mandela, comes huge responsibilities. Nothing less than adhering and advancing the efforts of our former President will suffice. You are encouraged to continue his and our quest towards a more just, healthy and equal society.

Regardless of your chosen career, use your new-found qualification as a force for good, strive to serve a cause larger than yourself and endeavour to change the world for the better. As in the words of Nelson Rolihlahla Mandela himself "education is the most powerful weapon which you can use to change the world".

We thank you for entrusting your dreams with us. It's you who make us want to do better, for it's you, our students, who give our institution a human face. It's you who will live his and our legacy.

We applaud and salute your achievement and wish you all the best in your future endeavours. As Nelson Mandela University alumni, we look forward to watching your story unfold.

Congratulations!

Dr Geraldine Fraser-Moleketi
Chancellor



Prof Sibongile Muthwa
Vice-Chancellor



ABOUT NELSON MANDELA UNIVERSITY

Nelson Mandela University is a new generation university, distinguished by a wide range of study options and access routes open to students. With 470 programmes from certificate through to doctoral level across 200 different career fields, Nelson Mandela University truly is a comprehensive university.

Founded on more than a century of quality higher education, Nelson Mandela University nurtures innovation, fosters creativity, embraces technology and develops people towards changing the world for the better. The University was previously known as Nelson Mandela Metropolitan University (NMMU), but on 20 July 2017 it was officially re-launched as Nelson Mandela University – the only university in the world to have been given this privilege. Our alumni also come from the University of Port Elizabeth, the PE Technikon and Port Elizabeth campus of Vista University, as these three institutions were combined to form NMMU in 2005.

The University has a strong record of research, working extensively in partnership with business and industry, and has an even more exciting future ahead of it, especially in terms of its contribution to the socio-economic development of the metro, region, country and continent of Africa.

This is due, among other new and growing ventures, to Nelson Mandela University's bold journey towards becoming the leading destination for all Ocean Sciences postgraduate teaching, learning, research and engagement in Africa with the launch of its dedicated campus in September 2017.

Our campuses

The launch of the Ocean Sciences Campus means Nelson Mandela University now has seven campuses and about 27 000 students.

Six of Nelson Mandela University's campuses are in Nelson Mandela Bay and one is in George on the Garden Route. The seven campuses are:

- South Campus in Summerstrand (within a 720-hectare private nature reserve)
- North Campus in Summerstrand
- Ocean Sciences Campus, adjacent to North and South campuses in Summerstrand
- Second Avenue Campus, home to our "green" Business School, in Summerstrand
- Bird Street Campus, a growing postgraduate arts hub in Central
- Missionvale Campus in Missionvale
- George Campus in George

Facilities and supportive teaching and learning environment

Nelson Mandela University is privileged to have outstanding facilities. All students have access to well-equipped laboratories, some of which are open 24/7, and free Wi-Fi throughout all its campuses. All lecture halls are equipped with the latest technology and students have the opportunity of using additional e-learning tools online. The campus libraries and information services network offers a state-of-the-art integrated online system. There are cafeterias, food courts and coffee shops.

A range of opportunities is provided to enhance the academic success of students. These include a first-year orientation programme, peer-facilitated learning opportunities (eg, Supplemental Instruction, e-PAL, tutorials, practicals, mentor programmes, 'Keys to Success' workshops and online resources). The University also promotes learning and development beyond the classroom towards enhancing holistic student development. To recognise this learning, Nelson Mandela University has developed an innovative, electronic co-curricular record system. This record complements the students' academic record.

The University also offers the finest sporting facilities in the Eastern Cape and numerous venues for conferences, meetings and other special events.

Faculties

Nelson Mandela University has seven faculties. They are:

- Arts
- Business and Economic Sciences
- Education
- Engineering, the Built Environment and Information Technology
- Health Sciences
- Law
- Science

Academic focus areas

Though the University prides itself on its vast range of programme offerings, it has a number of strategic areas in terms of its core business of teaching and learning, research and engagement. These are:

- Health and wellness
- Economic and business development with a focus on job creation and entrepreneurship
- Materials and process development for industry and manufacturing
- Emerging information and communications technology for development
- Environmental and natural resource management
- Culture, communication and language
- Leadership, governance, democracy and justice
- Educational development in support of excellence in teaching, learning and curriculum
- Infrastructure and human settlement development

Strategic research areas

- Biodiversity conservation and restoration
- Coastal marine and shallow water ecosystems
- Cyber citizenship
- Democratisation, conflict and poverty
- Earth Stewardship Science
- Health and wellbeing
- Humanising pedagogies
- Manufacturing technology and engineering
- Nanoscale characterisation and development of strategic materials
- Science, Mathematics and Technology Education for Society
- Strategic energy technologies
- Sustainable human settlement development and management
- Sustainable local economic development

Research and Engagement entities

Nelson Mandela University has more than 30 focused institutes, centres and units that exist over and above the formal academic structures. These are aimed at promoting research, technology transfer and innovation. They include the likes of InnoVenton, the University's go-getting Institute for Chemical Technology and Downstream Chemicals; eNtsa, an institute that focuses on seeking solutions through engineering; Earth Stewardship Science Research Institute (ESSRI); and the Institute for Coastal and Marine Research. Many are award-winning entities. The University also has many more engagement institutes, centres and units and two clinics serving society in various initiatives. Its mobile Zanemphilo health platform, for example, serves both indigent communities and its Health Sciences students with practical experience. The latter forms part of the growing Interprofessional Education (IPE) that will undergird the University's Health Science qualifications as it moves towards the formalisation of its Medical School.

'Green' endeavours

In line with its value of respect for the natural environment, Nelson Mandela University is involved in a large number of "green" initiatives that will not only reduce its own carbon footprint but is also assisting others in seeking renewable energy resource solutions. The University's Business School, for example, was the first in the country to be awarded four-star "green" accreditation for a public and education building by the Green Building Council of South Africa in 2013. The "green" agenda is supported by the Centre for Renewable Energy, which is recognised as a research leader in the field, and the University's overriding strategic priority towards all-round environmental economic and environmental sustainability.

International links

About 8% of the University's student body comes from 84 different countries outside of South Africa. The Office for International Education fosters relationships and manages inter-institutional linkages to enrich both Nelson Mandela University staff and students. These partnerships also foster our growing research.

Reasons to be proud:

- Nelson Mandela University is the only University in the world to be named after the global icon Nelson Mandela.
- Nelson Mandela University's diversity and multiculturalism. Our African students come from 32 countries on the continent.
- The Centre for High Resolution Transmission Electron Microscopy (CHRTEM) is the only place in Africa where scientists can view atoms in line with the University's growing prominence for nanoscience.
- The University was chosen to host the country's 10th Medical School, and hopes to welcome its first cohort of medical students from 2020.
- 43% of our academic staff have doctoral degrees, which is above the national average.
- New infrastructure like the second iconic Engineering block on North Campus, the High Performance Complex complete with a 100m research sprint track, and the Science building on South Campus.
- The University has the only dedicated Ocean Sciences campus in South Africa and is working together across disciplines – from the Arts through to Zoology – to find innovative, sustainably solutions in growing the country's blue economy.
- Nelson Mandela University has excellent links with industry and business, particularly within the pharmacy, tourism, the automotive industries and now with all Ocean Sciences-related partners.
- Nelson Mandela University's ongoing education partnership of ten years with Fifa, as one of only two presenters in Africa of an international sports management programme through the Centre International d'Etude du Sport (CIES).
- In 2012 the University was selected to facilitate the country's first electric e-mobility programme and technical centre, called the uYilo e-mobility programme.
- The University has extensive expertise within the field of friction processing which has resulted in numerous national awards for the patented technology, WeldCore®. This technology has saved industry vast sums of money.
- Nelson Mandela University's accounting and pharmacy students who continue to produce top results in their national external examinations.
- The University's international award-winning choir which continues to perform around the globe to wide acclaim.

ACADEMIC DRESS

Special academic attire was designed for office bearers at Nelson Mandela University to be worn at prestigious academic events like graduation.

Each outfit – from that of the Chancellor and Vice-Chancellor to those of the Executive Deans – has been meticulously selected to signify a particular office; this is a tradition that is consistent with leading universities throughout the world.

The gowns, caps and hoods of Nelson Mandela University graduates were similarly inspired and are explained in detail below.

Academic dress for graduates at Nelson Mandela University is as follows:

Doctoral degrees

- Gown:** Cardinal red polyester cashmere gown with long pointed sleeves pleated up with blue cord and button and lined with blue satin with 125mm facings and a blue collar.
- Hood:** Full shape hood in cardinal red polyester cashmere lined with faculty colour satin and edged around the cowl with 75mm faculty colour ribbon with 15mm blue ribbon overlaid central. 50mm wide straight neckband in cardinal red polyester cashmere, 25mm faculty colour ribbon in centre of neckband with 15mm blue ribbon overlaid central to faculty ribbon.
- Cap:** Round doctor's bonnet in black velvet with faculty colour cord and tassel.

Master's degrees

- Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail is used.
- Hood:** Full shape blue hood lined faculty colour satin and edged around the outside of the cowl with 75mm faculty colour with ribbon. 50mm straight neckband in blue with 25mm faculty colour ribbon centred.
- Cap:** Black mortarboard with blue tassel.

Postgraduate diplomas

- Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.
- Hood:** Blue simple shape hood lined silver grey satin. Straight neckband with 15mm faculty ribbon on top edge of neckband and around cowl. 15mm silver grey ribbon on bottom edge of neckband and around cowl spaced 20mm away from the faculty colour.
- Cap:** Black mortarboard with blue tassel.

Bachelor honours degrees

- Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.
- Hood:** Blue simple shape hood lined silver grey satin with 50mm wide straight neckband in faculty colour. Cowl edged 75mm faculty colour ribbon on the outside. 15mm silver grey ribbon runs along the outer edge of the cowl, overlaid on faculty ribbon and on top edge of neckband.
- Cap:** Black mortarboard with blue tassel.

Four-year bachelor's degrees (including Bachelor of Technology degrees)

- Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.
- Hood:** Blue simple shape hood lined silver grey satin with 50mm wide straight neckband in faculty colour. Cowl edged 75mm faculty colour ribbon on the outside. Silver grey cord runs along the outer edge of the cowl, overlaid on faculty ribbon and on top edge of neckband.
- Cap:** Black mortarboard with blue tassel.

Three-year bachelor's degrees

- Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.
- Hood:** Blue simple shape hood lined with silver grey satin with 50mm wide straight neckband in faculty colour. Cowl edged 75mm faculty colour ribbon on the outside.
- Cap:** Black mortarboard with blue tassel.

Advanced diploma

- Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.
- Hood:** Blue simple shape hood lined with silver grey satin with 50mm wide straight neckband. 15mm faculty colour ribbon on top and bottom of neckband around cowl.
- Cap:** Black mortarboard with blue tassel.

Diploma

- Gown:** Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.
- Hood:** Blue simple shape hood with 50mm wide straight neckband. 25mm faculty colour ribbon on centre of neckband.
- Cap:** Black mortarboard with blue tassel.

Faculty colours

Arts:	Yellow
Business & Economic Sciences:	Plum
Health Sciences:	Apple green
Law:	Grey blue
Education:	Orange
Science:	Dark green
Engineering, the Built Environment and Information Technology:	Light blue
Business School:	Black and magenta

Messrs T. Birch & Co (Pty) Ltd and its subsidiary, Croft Magill & Watson (Pty) Ltd, have been appointed as official robe-maker to the University and as contracted suppliers of choice to students for graduation academic attire.

The Image Factor has been appointed as the official photographer of the University.

RE-IMAGINING GRADUATION AT NELSON MANDELA UNIVERSITY

Our new name, evolving identity and institutional vision offers us an ideal opportunity to collectively explore how we would like to celebrate graduation at Nelson Mandela University.

What should an African university graduation associated with one of the world's most iconic leaders, the late Nelson Mandela, look and feel like?

It is this question that is presently being asked of Nelson Mandela University alumni, staff and students via surveys, focus groups and informal discussions.

We want our graduation ceremonies to offer an authentic expression of who we are ... one that embraces our rich multi-cultural diversity.

Examining all parts

To do so, the focus groups and surveys have examined our new identity, why we celebrate and how we should celebrate – particularly graduation, which is the apex of the academic journey of commitment, sacrifice and an affirmation of our intellectual ability.

What is the best format of our ceremonies? How do we visually express our success? How do we celebrate within socially acceptable norms – norms that embrace all cultures with dignity and pride? How should we dress?

Feedback

The input received to date from the university's key stakeholders in painting a picture of our future graduation ceremonies, has been consistently shared, in a parallel process, with a design team which won a tender to design new academic gowns for office bearers. This does not include gowns worn by graduates, but rather those worn by the likes of our Chancellor, Vice-Chancellor and Chairperson of Council, our deans, the Registrar and other key academic staff.

Interestingly, there has been overwhelming support to retain the academic gowns but in a manner befitting of our vision as a “dynamic African” university.

The new gowns, along with other agreed-upon aspects of our graduation ceremonies – from their size through to the supporting cultural performances – will hopefully be finalised in time for our 2018 Summer Graduation

AUTUMN GRADUATION CEREMONIES APRIL 2018

Friday, 13 April 2018	
Ceremony 1	10:00 George Campus All Programmes
Wednesday, 18 April 2018	
Ceremony 2	09:30 Faculty of Business and Economic Sciences (School of Industrial Psychology & Human Resources, Graduate School and others) Faculty of Law Two Honorary doctoral degrees
Ceremony 3	14:30 Faculty of Business and Economic Sciences (School of Management Sciences) One Honorary doctoral degree
Thursday, 19 April 2018	
Ceremony 4	09:30 Faculty of Science (School of Computing Sciences, Mathematics, Physics & Statistics and School of Biomolecular & Chemical Sciences)
Ceremony 5	14:30 Faculty of Science (School of Environmental Sciences)
Friday, 20 April 2018	
Ceremony 6	09:30 Faculty of Engineering, the Built Environment and Information Technology (School of the Built Environment and School of Information & Communication Technology)
Ceremony 7	14:30 Faculty of Engineering, the Built Environment and Information Technology (School of Engineering)
Saturday, 21 April 2018	
Ceremony 8	09:30 Faculty of Arts (School of Architecture; School of Music, Art & Design and School of Language, Media & Culture)
Ceremony 9	14:30 Faculty of Arts (School of Governmental & Social Sciences) Faculty of Education
Monday, 23 April 2018	
Ceremony 10	09:30 Faculty of Business and Economic Sciences (School of Accounting)
Ceremony 11	14:30 Faculty of Business and Economic Sciences (School of Economics, Development & Tourism)
Tuesday, 24 April 2018	
Ceremony 12	09:30 Faculty of Health Sciences (School of Clinical Care Sciences and School of Medicinal Sciences)
Ceremony 13	14:30 Faculty of Health Sciences (School of Behavioural Sciences and School of Lifestyle Sciences)

OFFICE-BEARERS OF THE UNIVERSITY

CHANCELLOR

DR GJ FRASER-MOLEKETI: MAdmin (UP), DPhil (hc) (NMMU)

CHAIRPERSON OF COUNCIL

MS NP JANUARY-BARDILL: Cert in Ed (UBL), Dip HR Mgt (Damelin), BA (UBL), MA (Essex, UK)

VICE-CHANCELLOR

PROF SW MUTHWA: BA(SW)(Fort Hare), BA(SW)Hons(Wits), MSc, PhD(London University, UK)

DEPUTY VICE-CHANCELLOR: INSTITUTIONAL SUPPORT

MR LE HASHATSE (ACTING): B (Journ & Media Studies), BAHons (RU), MA (Edith Cowan, Australia)

DEPUTY VICE-CHANCELLOR: RESEARCH AND ENGAGEMENT

PROF AWR LEITCH: BSc, BScHons, MSc, PhD(UPE)

DEPUTY VICE-CHANCELLOR: TEACHING AND LEARNING

PROF DM ZINN: BA, BAHons, HDE(UCT), MEd, DEd(Harvard University, USA)

EXECUTIVE DIRECTOR: FINANCE

MR MR MONAGHAN: BCom(UPE), BComHons(UNISA), Professional Accountant(SA)

EXECUTIVE DIRECTOR: HUMAN RESOURCES

MS VN BAM: BSocSc(UCT), PGDip(UFH), MBL(UNISA)

REGISTRAR

DR F GOOLAM: BSc, HDE, BEd, MEd(UDW), PhD(UP)

PRESIDENT OF ALUMNI ASSOCIATION

DR R JONAS: BA(UWC), HDE, BAHons(Unisa), MA(UPE), PhD(NMMU)

EXECUTIVE DEANS OF FACULTIES:

ARTS

PROF MJR BOSWELL: BSocSc, BSocScHons, MSocSc(UCT), PhD(Vrije Universiteit, Netherlands)

BUSINESS AND ECONOMIC SCIENCES

PROF HR LLOYD (ACTING): Bcom, BcomHons, Mcom, DCom (UPE)

EDUCATION

DR SF MOENG: BA, HDE, BEdHons(UPE), MSc(St Cloud State University, USA), DEd(NMMU)

ENGINEERING, THE BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

DR OSW FRANKS: BSc MechEng, MInd Admin(UCT), Hons (B&A)(US), PhD (Engineering Science)(USF - USA), Pr Eng

HEALTH SCIENCES

PROF L PEPETA: MBChB (Unitra), FCPAED(SA), DCH(SA), MMed (Wits)

LAW

PROF A GOVINDJEE: BA, LLB(RU), LLM(UPE), LLD(NMMU)

SCIENCE

PROF A MURONGA: BSc, UED(UNIVEN), BScHons, MSc(UCT), PhD (University of Minnesota, USA)

DEAN OF TEACHING AND LEARNING

PROF CD FOXCROFT: BA, BAHons, MA, DPhil(UPE)

DEAN OF STUDENTS

MR LP JACK: NDip(PMA)(EC Technikon), BTech(PM)(PET), BPhil(US), MCom(UKZN)

ORDER OF PROCEEDINGS

ENTRANCE OF ACADEMIC PROCESSION

(The congregation is requested to rise while the academic procession enters the hall)

MOMENT OF SILENCE

(The congregation is requested to remain standing)

CONSTITUTION OF CONGREGATION AND WELCOME

Vice-Chancellor

(The congregation is requested to be seated)

AWARDING OF QUALIFICATIONS

Vice-Chancellor

DISSOLUTION OF CONGREGATION

Vice-Chancellor

NATIONAL ANTHEM

(The congregation is requested to stand for the singing of the National Anthem)

DEPARTURE OF ACADEMIC PROCESSION

(The congregation is requested to remain standing until the academic procession has left the hall)

INFORMATION TO MEMBERS OF THE CONGREGATION

Members of the congregation are requested:

- *To rise and remain standing while the academic procession enters and leaves the hall.*
- *Not to leave the hall before the end of the ceremony.*
- *To switch off cellular phones or turn them on silent mode.*
- *Not to move around in the hall.*
- *Not to eat and drink in the hall.*
- *Not to get up and take photographs during the ceremony.*
- *To keep cheering and ululating to a minimum.*

The words *Cum Laude* indicates in the text below that the diploma or degree is awarded with distinction to the candidate/s listed.

NATIONAL DIPLOMA: ENGINEERING: CIVIL

ARNOLDS, Meran Brevin
 BARKES, Caleb Christopher
 BEQEZI, Onela Wilberforce
 BIDLI, Xhanti
 BOTHA, Zune` Danielle
 COETZEE, Warren Matthew
 DAVIS, Brandon
 DE WILZEN, Dylan Paulus
 DIKO, Mziwethu
 DOMINGO, Raees
 DOMINGO, Zaahir
 FREDERICKS, Tashreeq
 FUNYUFUNYU, Dakalo Theresa
 GIWU, Bonolo
 HAWKES, Marcus
 HAWKES, Marlin
 LANGA, Bongani
 LUZIPHO, Luthando
 MACDONALD, Tiaan
 MADIKAZI, Siyabulela
 MAKWETHU, Phumelele
 MANGQALAZA, Anele Oletta
 MANTIMAKHULU, Malibongwe
 MBIZA, Amanda
 MGOBUKA, Sesona Alizwa
 MIDDLETON, Gerald Murray
 MKONTWANA, Yamkela
 MYBURGH, Veronique Kevlin
 NCUBUKEZI, Isaac Nizibone
 NDESI, Nwabisa Onelisa
 NONYANE, Sheron Nwamahlobane
 NTLAMA, Aqhama Chwayita
 NYEPA, Lithalethu
 POSWAYO, Liviwe
 ROGERS, Benjamin William
 RUMANI, Ndamulelo Patricia
 SIMON, Michaela Trisha
 SMITH, Leneal Naithan
 TURNER, Gesm Milns
 VAN DER MERWE, Tristan Luke
 VAROYI, Gcisa

CUM LAUDE

ALLEN, Edan Kevin Butler
 MATONGO, Likukela
 MWAPE, Lawrence Mukosela
 SHARP, Damian

NATIONAL DIPLOMA: ENGINEERING: ELECTRICAL

BAARTMAN, Lwazi
 BABY SHAJU, Aldrin
 DLEPU, Ongezwa
 FERREIRA, Elandre
 GOGI, Odwa
 GOQWANA, Sebenzani
 GQOKOMA, Chuma
 GULWA, Simnikiwe Mlondolozu
 HOLE, Theodora Zesongiwe
 JACA, Ashley
 KOLOKI, Nozuko

LANDU, Siyabulela Jonathan
 LEVE, Nontsikelelo Primrose
 LIPPERT, Jenaine Terane Keith
 MAGQABI, Nqabakazi
 MAKOBE, Ramathetje Grace
 MAKOSHOLO, Neo Isaac
 MASETI, Ayabonga
 MASHILOANE, Zonke
 MASHWABI, Tebogo Letlhogonolo
 MASWANA, Ayabulela
 MBATSHA, Unathi
 MCIMELI, Nonhlanhla Beauty
 MDULI, Kamvalethu
 MKHOSANA, Masithule
 MKHOSI, Zukisa
 MKRAZULI, Sinesipho Siyanda
 MLENZANA, Ncedo
 MNQUMENI, Nompumelelo
 MODIE, Sandra Zimasa
 MOTANYANE, Sekoala Sylvester
 MOTSOARE, Ebenhezer Hulisani
 MPANGASE, Moosa S'Thembile
 MVANGWANA, Ongezwa
 NDLOVU, Success Rudolph
 NEKU, Sinethemba
 NGCIBI, Derrick
 NIEHAUS, Jullian James
 NODABONGO, Mandlenkosi
 NQEKETO, Ntsingiselo
 PONONO, Buntu
 SCHREIBER, Kurt Edward
 SEMANE, Ncedo Wezly
 SITHOLE, Kidybone Codeliah
 SONQAYI, Anele
 TELADIA, Mohammed Husain
 THOMSON, Brittany Bianca
 THUTHU, Siphosethu Charmaine
 TSHEKELA, Phumelele
 TYULU, Simpiwe John
 VA, Mveleli

CUM LAUDE

CHASE, Matthew
 MUSA, Pekosela Samuel
 PULUMO, Lukhanyo

NATIONAL DIPLOMA: ENGINEERING: INDUSTRIAL

ABOU EL HOSSEIN, Donia Khaled Abdelrahman
 BEZUIDENHOUT, Hanlie Pearl
 BOTHMA, Jacques
 DABULA, Siseko Goodman
 DE KLERK, Daniel Jacobus Malan
 DELPORT, Cornelis Johannes Linde
 FUTTER, Tamaryn Anne
 GAMIELDIEN, Muhammad
 HATTINGH, Tiaan Jacques
 ISAACS, Kayla-Ray
 KALIPA, Gladman Luvuyo
 KELLER, Johann Martin Fredrich
 KUBULI, Qaphela
 LEBAMBO, Cyril Jason
 MAKHEDA, Mulanga
 MAPOMA, Thuthuzela
 MASIBIGIRI, Masindi

MBUMBULWANA, Siphamandla
MDUNGE, Nongcebo Vuyiswa Sithembiso
MTSHABE, Mandilakhe
MULAUDZI, Talukanyani
NGOGELA, Ludwe Given
QWEMEME, Yandisa
RAMAGALELA, Livhuwani
REDDY, Rushil
ROSSI-FALCON, Thalia Yolanda
SIKOSANA, Khayelihle Theo
SISHUBA, Hlumela
SOUTHEY, Trevor Louis
TERBLANCHE, Enzo Clayton
THOMPSON, Shaun
TOBO, Ongama Mpumzi
TSHINGANA, Mandisi
VAN NIEKERK, Brandon
VELENGCENI, Ayanda
VENTER, Phillip Alfred
WELLINGTON, Irvine Warren

CUM LAUDE

FERREIRA, Daniel
KOEBERG, Tayla Jane

NATIONAL DIPLOMA: ENGINEERING: MECHANICAL

AYENUMELO, Joseph Oyetayo
CORNWELL, Matthew Barry
DE VRIES, Andreas
FORBES, Nicholas Simon
GOOD, Ayrton Padraig Luca
GROENEWALD, Garren-Lee
GROOTBOOM, Ntsika
GWALA, Ronald Samukelo
ISAACS, Ashriq
KESA, Zimasa Precious
KOPS, David
LEVENDAL, Remi Arend
MADAVHA, Muster Thivhileli
MADONSELA, Sifiso Pai
MAGUBANE, Lunga
MALGAS, Siyamtanda
MALOLA, Molate Elias
MANDLA, Sibulele
MAPAPU, Thobela
MAWENI, Zanele
MBENGA, Lumanyano
MEYER, Keanu Desmy
MFUKU, Melikhaya Jerry
MKIZE, Alungile
MORGAN, Anele Hlumani
MOYAKE, Mzimasi
MSIMANGO, Mzamele Viwe
MTSHAFUTO, Amosi
NAIDOO, Sarvesh Keanen
NAMBAHU, Wilbard Nambahu Iithawe
NEL, Antonie Daniel
NGQAKAMBA, Chuma
NGWENYA, Anele
NKOSI, Mthokozisi Chamberlain
NORTH, Dale Benjamin
OGUNU, Lucky
OOSTHUIZEN, Johan Andre
PARAFFIN, Olwethu
RADZIVHONI, Mukundi

SCHERMAN, Renier
SCHUTTE, Noluthando Shirley
SERFONTEIN, Ruth Inga
SMIT, Andre Rheyndt
SMITH, Timothy David Steele
TOVHAKALE, Ngalivhuhiwe Obadiah
TRUTER, Hugo Jacobus
TSHALI, Khanyiso Theophilus
TWAZI, Mfezekisi
VAN ROOYEN, Eden Tatum
VAN ZYL, Giaan Johannes
VUZANE, Nobathwa
WATSON, Richard John
WILLIAMS, Razeen
XOSHOMBA, Vuyisile Michael

CUM LAUDE

DREYER, Bernard Johan

NATIONAL DIPLOMA: OPERATIONS MANAGEMENT

APPELS, Denven Martin
COETZER, Renier Jonathan Chrisjan
CUNNINGHAM, Brian Melvin
DINGISWAYO, Phindiwe
DZENA, Siyabulela
FAIRLEY, Jacqueline Merel-Anita
FREEMAN, Simone
GOVENDER, Yugan
HECTOR, Clint Randolph
JACOBS, Sindiswa
JAFTHA, Howard Patrick
JOB, Olivia Teresa Alethea
JOHNSON, Rakshana Rachel
KAKAZA, Melikhaya Theophilus
KUZWAYO, Sivuyile Oscar
LOTTERING, Wayne Jonker
LOUIS, Luke Baldwin
LUCAS, Khaya
MATROOS, Enrico Cheslin
MTSHISA, Nomawele
MULLER, Anton Renaldo
NETNOW, Fiona Devinia
OOSTHUIZEN, Gerhardus Cornelius
OOSTHUIZEN, Roscoe Clyde
PETERSEN, Ranaldo Winston
PHIRI, Sekela
QUZA, Ziyanda
SOMFULA, Thamsanqa Arthur
STOFFEL, Christian Luthando

CUM LAUDE

JAMAL, Feizal
MGWALI, Lukholo
RIX-RICHTER, Linzee Anne
VOSLOO, Johan Anton
YEKANI, Siyabulela El-Shalom

BACHELOR OF ENGINEERING IN MECHATRONICS

BAWJEE, Santosh
COLLIER, Jason Leslie
DARRIES, Ridhaa
DONALDSON, Kyle Warwick
FORBES, Christine Ruth
GILFILLAN, Cullen Leo
HANSEN, Damian Clinton
HARVEY, Luke Gareth
JAPPIE, Shuaib
KIDSON, Lance Kyle
KOEKEMOER, Martin
LOUW, Tayden Chatillon
MARITZ, Tylu
MNDEBELE, Zwelibanzi Bright
MNYANDU, Lindokuhle Velenkosini Samuel
MOHAU, Lwando
MOTLOUNG, Nthabeleng
NEETHLING, André Christiaan Ludolph
NELSON, Benjamin David
NTELEZA, Bonga
PRINSLOO, Jonathan Ryan
RAMJEE, Mayur Muthayan
RICHARDS, Brett Michael
SEWELL, James Alderton
SLABBERT, Jason Neil
SMALBERGER, Charl
SMITH, George Martin Mansel
SWANEPOEL, Hein
TUMWESIGYE, Mark
VAN DER WESTHUIZEN, Louis
YZELLE, Francois Charles
ZIETSMANN, Ludwig

CUM LAUDE

ABBAS, Abdalla Abbas Said

BACHELOR OF TECHNOLOGY: ENGINEERING: CIVIL

ALLY, Tasleem Mildred (*Transportation Engineering*)
BENYA, Ntandokazi Asiphe Phiwokuhle
(*Transportation Engineering*)
DLANJWA, Aseza (*Transportation Engineering*)
GXOBOLE, Inga Athandile (*Transportation Engineering*)
HANCOX, Riaan Morney (*Urban Engineering*)
KOLELE, Thembeke Ruth (*Urban Engineering*)
KRUGER, Zako Niel (*Urban Engineering*)
LETA, Godwin Ategyeka (*Urban Engineering*)
MAHLANGU, Siphos Frans Desmond
(*Transportation Engineering*)
MAKWABE, Thandile Silumko
(*Transportation Engineering*)
MAVIKELA, Luthando (*Transportation Engineering*)
MBATHA, Mbuso (*Transportation Engineering*)
MGUDLWA, Oyama (*Transportation Engineering*)
MLOMZALE, Viwe (*Transportation Engineering*)
MSHWESHWE, Yanga (*Transportation Engineering*)
NAIK, Ranchodje (*Urban Engineering*)
NDLAMLALA, Anathi (*Transportation Engineering*)
NJOBE, Andisiwe (*Transportation Engineering*)
NTSWANE, Mpumzi (*Urban Engineering*)
PADAYACHEY, Suntosh (*Urban Engineering*)
SHAW, Ashlynn Courtney (*Urban Engineering*)
SIWENDU, Abongile (*Transportation Engineering*)

SMITH, Andrea Nicole (*Urban Engineering*)
SMITH, Tiaan (*Urban Engineering*)
SNYMAN, Juandre Morne (*Transportation Engineering*)
TERBLANCHE, Hilgard Muller
(*Transportation Engineering*)

CUM LAUDE

HENNING, Kevin Michael (*Transportation Engineering*)

BACHELOR OF TECHNOLOGY: ENGINEERING: ELECTRICAL

LIBERTY, Antonio Carsten Marcel Adolph
SWART, Jandre Van Niekerk

BACHELOR OF TECHNOLOGY: ENGINEERING: INDUSTRIAL

FORMENTO, Roberto
MBENDENI, Nompumelelo

BACHELOR OF TECHNOLOGY: ENGINEERING: MECHANICAL

ROCKMAN, Kaamil

BACHELOR OF TECHNOLOGY: OPERATIONS MANAGEMENT

ARTZ, Jayson Warren

BACHELOR OF TECHNOLOGY: QUALITY

BANTWINI, Luseka
HUMAN, Clinton Christopher
MARTINS, Hyron Christopher
MAZANA, Vuyokazi Elizabeth
MNQONONGWANA, Nolitemba
NICHOLLS, Nicole Tamarah Clarissa

MASTER OF ENGINEERING (RESEARCH)

NANDJEMBO, Frans Nelongo Pandeni
(Mechanical)

Title of dissertation:

SOLAR THERMAL PERFORMANCE OF A CONICAL HELIX RECEIVER TUBE MOUNTED ON A PARABOLIC DISH

Supervisor: Prof RL Phillips
Co-supervisor: Mr G Kleyn

NOHANYAZA, Melikhaya
(Mechanical)

Title of dissertation:

COMPUTATIONAL ANALYSIS AND CAVITY OPTIMISATION TO ACHIEVE DIRECTIONAL SOLIDIFICATION IN A CAST ALUMINIUM ALLOY [Al7SiMg] COMPONENT

Supervisor: Dr IN Wedderburn
Co-supervisor: Prof DG Hattingh

SWAN, Lindsay Jane
(Mechanical)

Title of dissertation:

CHARACTERIZATION OF RESIDUAL STRESS DRIVEN DEFORMATION IN TERMS OF BUILD HEIGHT FOR THIN WALLED LASER METAL DEPOSITION (Ti6Al4V) COMPONENTS

Supervisor: Prof DG Hattingh

MASTER OF ENGINEERING IN MECHATRONICS (RESEARCH)

GAFFOOR, Shaaista

Title of dissertation:

IMPLEMENTATION AND OPTIMIZATION OF ROBUST MACHINE VISION SYSTEMS IN A MANUFACTURING ENVIRONMENT USING LEAN SIX SIGMA

Supervisor: Prof F Smith

MASTER OF TECHNOLOGY: ENGINEERING: CIVIL (RESEARCH)

AHMED, Tauqeer Azad

Title of dissertation:

THE DETERMINATION OF COPE LEVELS IN MODERN PORTS: A CASE STUDY FOR THE PORT NGQURA, COEGA RIVER DEVELOPMENT

Supervisor: Dr MB Mgangira
Co-supervisor: Mr G Toms

MASTER OF TECHNOLOGY: ENGINEERING: ELECTRICAL (RESEARCH)

MTHETHWA, Simeon Lindani

Title of dissertation:

IMPACT OF INTEGRATING TEEBUS HYDRO POWER ON THE UNBALANCED DISTRIBUTION MV NETWORK

Supervisor: Dr RT Harris
Co-supervisor: Mr AG Roberts

MASTER OF TECHNOLOGY: ENGINEERING: MECHANICAL (RESEARCH)

CAWOOD, John Henry

Title of dissertation:

POTABLE WATER PRODUCTION FROM ATMOSPHERIC VAPOUR USING AN EJECTOR EVACUATED SOLAR POWERED REFRIGERATION SYSTEM

Supervisor: Prof RL Phillips

DOCTOR OF PHILOSOPHY IN ENGINEERING

HIMUNZOWA, Grayson

(Mechatronics)

Title of thesis:

DESIGN OF DEDICATED IFT MICROCONTROLLER

Supervisor: Prof F Smith

OTIENO, Timothy

(Mechatronics)

Title of thesis:

THE MACHINABILITY OF RAPIDLY SOLIDIFIED ALUMINIUM ALLOY FOR OPTICAL MOULD INSERTS

Supervisor: Prof K Abou-El-Hossein

DOCTORAL DEGREE CITATIONS

THE DEGREE OF DOCTOR OF PHILOSOPHY IN ENGINEERING (MECHATRONICS)

GRAYSON HIMUNZOWA

Previous qualifications:

1989	Diploma in Electrical Engineering	City and Guilds of London Institute
2002	Bachelor of Engineering (Electrical)	University of Zambia
2007	Master of Science in Engineering (Electrical)	University of Cape Town

Thesis:

DESIGN OF A DEDICATED IFT MICROCONTROLLER

This thesis developed and tested a dedicated Implementation of Interferential Therapy (IFT) microcontroller through the method outlined as follows: exploration of the IFT theory and its applications, review of literature and a survey of Electronic Design Automation (EDA) tools, followed by investigation of the iterative feedback tuning (IFT) by applying it to three different models; the Direct Current (DC) motor, the oscillatory plant, and the unstable plant. Each of these models were tested (in simulation) using three types of the initial controllers, by using a varying amplitude reference signal and actual experimentation of the hardware implemented on field programmable gate array (FPGA). The findings validated the feasibility of the IFT working as a dedicated hardware.

THE DEGREE OF DOCTOR OF PHILOSOPHY IN ENGINEERING (MECHATRONICS)

TIMOTHY OTIENO

Previous qualifications:

2011	BEng Mechatronics	Nelson Mandela Metropolitan University
2012	MEng Mechatronics	Nelson Mandela Metropolitan University

Thesis:

THE MACHINABILITY OF RAPIDLY SOLIDIFIED ALUMINIUM ALLOY FOR OPTICAL MOULD INSERTS

Critical components for optical devices and optical measuring systems are mainly produced through ultra-high precision machining. Their mass production is mainly implemented by utilising aluminium alloys for optical moulds. This research investigates the machinability of rapidly solidified aluminium, RSA 905, a newly modified grade of aluminium alloy characterised by finer microstructures and improved physical properties. The machinability was investigated using a statistical approach to generate models for the associated surface finish and tool wear with varying cutting parameters, as well as implementing a molecular dynamics approach to provide insight into the underlying mechanisms at atom level. The results prove that RSA is a superior alternative to traditional aluminium alloys and provides a flexible reference to improve efficiency of diamond machining operations.

VISION, MISSION, VALUES, EDUCATIONAL PURPOSE AND PHILOSOPHY

VISION

To be a dynamic African university, recognised for its leadership in generating cutting-edge knowledge for a sustainable future.

MISSION

To offer a diverse range of life-changing educational experiences for a better world.

To achieve our vision and mission, we will ensure that:

- Our values inform and define our institutional ethos and distinctive educational purpose and philosophy.
- We are committed to promoting equity of access and opportunities so as to give students the best chance of success in their pursuit of lifelong learning and diverse educational goals.
- We provide a vibrant, stimulating and richly diverse environment that enables staff and students to reach their full potential.
- We develop graduates and diplomates to be responsible global citizens capable of critical reasoning, innovation, and adaptability.
- We create and sustain an environment that encourages and supports a vibrant research, scholarship and innovation culture.
- We engage in mutually beneficial partnerships locally, nationally and globally to enhance social, economic, and ecological sustainability.

VALUES

- Diversity
- Excellence
- Ubuntu
- Social justice and equality
- Integrity
- Environmental stewardship

EDUCATIONAL PURPOSE AND PHILOSOPHY

- We provide transformational leadership in the service of society through our teaching and learning, research and engagement activities.
To achieve this we are committed to developing the human potential of our staff and students in the full spectrum of its cognitive, economic, social, cultural, aesthetic and personal dimensions in the pursuit of democratic citizenship.
- We adopt a humanising pedagogical approach that respects and acknowledges diverse knowledge traditions and engages them in critical dialogue in order to nurture a participative approach to problem-posing and -solving, and the ability to contribute to a multi-cultural society.
- We inspire our stakeholders to be passionate about and respectful of an ecologically diverse and sustainable natural environment.
- We will be known for our people-centred, caring, values-driven organisational culture that will allow all members of the university community to contribute optimally to its life.

CONGRATULATORY MESSAGE FROM THE ALUMNI ASSOCIATION

Congratulations on your academic achievement! Welcome to the Nelson Mandela University family. You are now a Nelson Mandela University alumnus.

We would like to take this opportunity to introduce you to the Nelson Mandela University Alumni Association. Once you have obtained your Nelson Mandela University certificate, diploma or degree you become an alumnus of the University and a member of the Nelson Mandela University Alumni Association. The Association is recognised by the University Council as a structure of the University. The Association supports and enhances the realisation of the University's vision and mission through maintaining and expanding positive relationships with its members.

The role of the Alumni Association Office

The Alumni Association Office is a public relations and projects department responsible for the day-to-day management and running of the Alumni Association, the University Shop and all matters related to alumni engagement. Primarily, we build relationships and maintain strong links with graduates, parents, friends and supporters of the University through events, networks, services, communications and community engagement.

The role of Nelson Mandela University Graduate

We encourage you to attend the alumni engagement events, be an active alumni ambassador, support your alma mater in a variety of ways including sharing news, expertise, skills, and contributions in cash and kind. We encourage a culture of giving back especially for student bursaries, which can be accessed on our alumni website.

University Shop

Visit the University Shop situated at the Sanlam Student Village on University Way, Summerstrand, for all Nelson Mandela University branded clothing, corporate gifts, bags and memorabilia!

More info,  041 504 4371  www.shop.mandela.ac.za  shop@mandela.ac.za

Lifetime connection with Nelson Mandela University

We are proud of our alumni and value your connection.

We encourage you to stay in touch by updating your graduate profile. We will keep you informed with University developments and graduate news through our event invitations, project and campaign updates, regular e-newsletters via our website and social media channels.

Your Graduate profile link <https://mandela.devman.co.za/Devman/alumni/findme/>

We welcome your visit to the Alumni Associates Centre on the North Campus in Port Elizabeth.

More info,  041 504 3935  www.alumni.mandela.ac.za  alumni@mandela.ac.za

Join us,  Nelson Mandela University Alumni  Nelson Mandela University Alumni  @MandelaUni

Stay connected to your *alma mater!*

NATIONAL ANTHEM

**Nkosi Sikelel'i-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 Africa.**

South Africa.

**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.**