



UNIVERSITEIT
iYUNIVESITHI
STELLENBOSCH
UNIVERSITY

100
1918 · 2018

Graduation

(Physical and Virtual)

15 December 2020

09:00 | 12:00 | 15:00 | 18:00

Gradeplegtighede

(Fisies en Virtueel)

15 Desember 2020

09:00 | 12:00 | 15:00 | 18:00

Ons Visie 2040

Die Universiteit Stellenbosch sal Afrika se voorste navorsingsintensiewe universiteit wees wat wêreldwyd as uitnemend, inklusief en innoverend erken word en waar ons kennis tot diens van die samelewing bevorder.

Ons Missie

Die Universiteit Stellenbosch is 'n navorsingsintensiewe universiteit wat uitmuntende studente lok, talentvolle personeel aanstel en 'n wêreldklasomgewing bied; 'n plek wat met die wêreld verbind is en gemeenskappe plaaslik, op die vasteland en in die res van die wêreld verryk en transformeer.



Our Vision 2040

Stellenbosch University will be Africa's leading research-intensive university, globally recognised as excellent, inclusive and innovative, where we advance knowledge in service of society.

Our Mission

Stellenbosch University is a research-intensive university where we attract outstanding students, employ talented staff and provide a world-class environment; a place connected to the world, while enriching and transforming local, continental and global communities.



Umbonoweth ka2040

IYunivesithi yaseStellenbosch iya kuba yiyunivesithi egxininise kuphando nekhokeleyo eAfrika, neyamkelwa kwihlabathi lonke njengegqwesileyo, equkayo neyenza inguqulelo, nalapho siqhubela phambili ulwazi sikhonza uluntu.

Ubizo Lwethu

IYunivesithi yaseStellenbosch yiyunivesithi egxininise kuphando nalapho sitsala abafundi abagqwesileyo, siqesha abasebenzi abanesiphiwo kwaye sibonelela nemeko ekwinqanaba lehlabathi; indawo eqhagamshelene nehlabathi, ngelixa ichumisa kwaye iguqula uluntu lwengingqi, lwelizwekazi nolwehlabathi.



Oudregter | Justice Edwin Cameron
Kanselier | Chancellor

Beste lid van die Universiteit Stellenbosch-gemeenskap

Dit is vir my 'n besondere eer om as voorsitter van ons Desember-gradoplegtighede op te tree – sowel die aanlyn as fisiese geleenthede. Ek het nog altyd gebeurde by my alma mater met groot belangstelling gevolg, en is dankbaar vir die geleentheid om in dié stadium van my lewe weer by Maties betrokke te wees en my ervaring met die volgende geslag te kan deel.

Toe ek aan die begin van die jaar die Kanseliersamp opgeneem het, het niemand natuurlik geweet wat vir ons voorlê nie. Wat 'n jaar was 2020 nie! Ek haal my hoed af vir die vasberadenheid en aanpasbaarheid waarmee u die vreesaanjaende koronaviruspandemie en gepaardgaande uitdagings getrotseer het.

Die jaar het ongelukkig ook sy tol geëis. My innige meegevoel aan almal wat weens die virus 'n geliefde verloor het of wie se lewe op 'n ander ingrypende manier deur die Covid-19-krisis geraak is.

Vandeesweek is ons uiters trots op al die grade, diplomas en sertifikate wat by hierdie plegtighede toegeken word. Dit getuig van die US se kernbydrae tot ons samelewing – des te meer in hierdie uitdagende tyd.

Ek spreek graag my respek, waardering en gelukwensing uit teenoor alle rolspelers – studente, dosente, studieleiers en promotors, steundienstpersoneel en die US-bestuur. Familielede verdien spesiale vermelding, en so ook al die vriende, skenkers en borge wat ons graduandi enduit toegewyd en doelgerig help werk het om hul kwalifikasies te behaal.

Aan al ons nuwe graduandi: Ek hoop die vreugde en trots waarmee ons vandag u prestasie vier, ontwikkel mettyd in iets selfs kosbaarder – 'n verantwoordelike gevoel en pligsbesef. U nuwe status bied u die geleentheid om die kennis, vaardighede en netwerke wat u deur u studie opgebou het te benut om ons land, vasteland en die res van die wêreld 'n beter plek vir almal te maak. Nou, meer as ooit vantevore, behoort ons die kans om tot die samelewing by te dra met geesdrif aan te gryp.

Ek wens u alles van die beste toe vir die volgende fase van u lewensreis.

Oudregter Edwin Cameron
Kanselier

Dear member of the Stellenbosch University community

I feel extremely honoured to preside at our December graduation ceremonies – both the online and face-to-face versions. I have always followed events at my alma mater with great interest and am grateful for the opportunity once more to be involved in Maties at this stage of my life, and to be able to share my experience with the next generation.

When I assumed office as Chancellor at the start of the year, no-one knew what 2020 had in store for us. What a year it has been! I tip my hat to you for the determination and adaptability you displayed in the face of the terrifying coronavirus pandemic and all its associated challenges.

Sadly, the year has also taken its toll. My deepest condolences to everyone who has lost a loved one to the virus, or whose lives have been dramatically affected in other ways by the Covid-19 crisis.

This week, we are immensely proud of all the degrees, diplomas and certificates to be conferred at these ceremonies. They attest to SU's key contribution to society – all the more in these challenging times.

I would like to express my respect, appreciation and congratulations to all role-players – students, lecturers, supervisors, support services staff and SU management. Family members deserve a special mention, as do the friends, donors and sponsors who assisted our graduates to keep on working with dedication and purpose, up until the very end, to obtain their qualifications.

To each and every graduate: May the pride and joy with which we are celebrating your achievement today develop into something even more valuable over time – a sense of duty and responsibility. Your new status offers you the opportunity to use the knowledge, skills and networks you have been able to acquire through your studies to make our country, continent and the rest of the world a better place for all. Now, more than ever, we should enthusiastically embrace the chance to contribute to society.

I wish you every success for the next phase of your life's journey.

Justice Edwin Cameron
Chancellor

Kanselier | Chancellor

Justice E Cameron, BAHons, LLd hc (Stell), LLB, BCL, MA, DCL hc (Oxford), LLd hc (King's College, London), LLd hc (Witw), LLd hc (St Andrews), LLd hc (Sussex)

Rektor en Visekanselier | Rector and Vice-Chancellor

Prof WJS de Villiers, MB, ChB, MMed (Int), FCP (SA), DPhil, MHCM

Voorsitter van die Raad | Chairperson of Council

Mr GM Steyn, BA, LLB

Uitvoerende Bedryfshoof | Chief Operating Officer

Prof SA du Plessis, BComHons, MPhil, PhD

Viserektor (Sosiale Impak, Transformasie en Personeel)**Vice-Rector (Social Impact, Transformation and Personnel)**

Prof NN Koopman, BA, MTh, DTh

Viserektor (Leer en Onderrig) | Vice-Rector (Learning and Teaching)

Prof A Schoonwinkel, PrEng, MEng, MBA, PhD

Viserektor (Navorsing, Innovasie en Nagraadse Studies)**Vice-Rector (Research, Innovation and Postgraduate Studies)**

Prof TE Cloete, MSc, DSc

Viserektor (Strategie en Internasionalisering)**Vice-Rector (Strategy and Internationalisation)**

Prof HC Klopper, BCur, MCur, PhD, MBA, FAAN, MASSAf

Registrateur | Registrar

Dr P Retief, MA, DLitt

Dekane | Deans**AgriWetenskappe | AgriSciences**

Prof D Brink, BScHons, MScAgric, PhD

Ekonomiese en Bestuurswetenskappe | Economic and Management Sciences

Prof I Woolard, BSc, BAHons, PhD

Geneeskunde en Gesondheidswetenskappe | Medicine and Health Sciences

Prof JA Volmink, BSc, MB, ChB, DCH (SA), MPH, DPhil, MASSAf

Ingenieurswese | Engineering

Prof JL van Niekerk, MEng, PhD, EMBA

Krygskunde | Military Science

Prof MS Tshela, MSc, PhD

Lettere en Sosiale Wetenskappe | Arts and Social Sciences

Prof AJ Leysens, MA, DPhil

Natuurwetenskappe | Science

Prof L Warnich, MSc, PhD

Opvoedkunde | Education

Prof MR Madiba, DLitt et Phil

Regsgeleerdheid | Law

Prof N Smit, BLC, LLB, LLd

Teologie | Theology

Prof RW Nel, BA, BTh, MTh, DTh



Prof Wim de Villiers

Rektor en Visekanselier
Rector and Vice-Chancellor

Beste Matie-graduandus

'n Kollega vertel my van 'n jong dokter wat verlede jaar afgestudeer het, en onlangs sê sy is baie verlig dat sy nie “hierdie deurmekaar jaar” as 'n finalejaarstudent hoef aan te gepak het nie. Julle hét – en boonop met groot sukses. Welgedaan!

Niemand sal 2020 sommer vergeet nie. Dit sal tereg onthou word as 'n besonder uitdagende tyd. Wat as die spreekwoordelike “jaar van volmaakte sig” begin het, het vinnig in 'n maalkolk van onsekerheid ontaard weens die koronaviruspandemie. Ons moes almal vasbyt om op koers te bly met ons doelwitte.

Al die planne wat ons as Universiteit aan die begin van die jaar gehad het, is vinnig afgeskaal tot slegs twee oorhoofse oogmerke: om te sorg dat ons studente hul akademiese jaar kan voltooi en dat ons as instelling volhoubaar bly vir toekomstige innames. Ek dink ons het hierin geslaag.

Toe kontakonderrig in Maart op alle kampusse landwyd opgeskort is, het ons blitsvinnig na aanlyn noodafstandsonderrig, -leer en -assessering oorgeslaan. Daar was wel haakplekke, maar die meeste is weldra uitgestryk. Dankie aan ons personeel (akademies én steundienste) en studente vir al die harde werk en opofferings wat dít moontlik gemaak het.

Span US het uitstekend gevaar om Covid-19 die hoof te bied. Almal het hul deel gedoen – van studente wat gesondheidswerkers in die frontlinie vrywillig bygestaan het, navorsers wat multidisiplinêre projekte van stapel gestuur het, en tegnoloë wat robotte in 'n hospitaal ontplooi het sodat spesialiste op 'n afstand saalrondes kon doen, tot ingenieurs wat met 'n 3D-drukker onderdele vir asemhalingstoestelle en gesigskerms vir gesondheidsorgwerkers vervaardig het, en kollegas wat uitgereik het na die groter gemeenskap met kospakkie vir huishoudings in nood. Dít is hoe ons Maties ken!

Jou tyd hier by ons het jou voorberei om leiding te neem en uit te blink in 'n diverse wêreld, danksy 'n omgewing waarin jy 'n transformerende studente-ervaring kon hê. Mag jy wat jy hier geleer het met vrug toepas, en mag die US se waardes – uitnemendheid, deernis, billikheid, respek en verantwoordbaarheid – jou rigskoer bly.

Die US sal altyd jou akademiese tuiste bly. Besoek gerus ons alumniplatform, www.matiesconnect.com. Daar kan jy kontak met jou universiteitsvriende behou, na werksaanbiedinge kyk sowel as mentors en netwerkgeleenthede kry – alles op een plek. Studies dui daarop dat betrokkenheid by sterk alumninetwerke heelwat voordele inhou, veral vir beroepsontwikkeling. Bly deel van die Matie-familie om jou loopbaan te bevorder.

Tot weersiens!

Prof Wim de Villiers
Rektor en Visekanselier

Dear Matie graduate

A colleague tells me of a young medical doctor who graduated last year, who recently said how relieved she was that she did not have to tackle “this chaotic year” as a final-year student. You did – and with great success at that. Well done!

2020 will not be easily forgotten. It will rightly be remembered as an extremely challenging time. What started off as the proverbial “year of perfect vision” soon turned into one fraught with uncertainty due to the coronavirus pandemic. All of us had to dig deep to stay on course with our goals.

The comprehensive plans our University had at the start of the year were swiftly scaled down to only two overall objectives: ensuring that our students could complete their academic year and that our institution remain sustainable for future intakes. I believe we have succeeded in this.

When face-to-face tuition was suspended on campuses nationwide in March, we rapidly switched to online emergency remote teaching, learning and assessment. While there were some glitches, most were soon resolved. This was made possible by the hard work and sacrifices of our staff (both academic and support services) and students, to whom we are deeply grateful.

Team SU excelled at meeting the challenges of Covid-19. Everyone did their bit – from students who volunteered to support frontline healthcare workers, researchers who launched multidisciplinary projects, and technologists who deployed robots in a hospital so that specialists could continue with their rounds remotely, to engineers who used a 3D printer to manufacture parts for ventilators and face shields for healthcare workers, and colleagues who reached out to the broader community with food parcels for households in need. That's Maties for you!

Your time with us has prepared you to lead and excel in a diverse world, thanks to an environment that enabled you to have a transformative student experience. I hope that the lessons you learnt here will stand you in good stead, and that you will continue to live by SU's values – excellence, compassion, equity, respect and accountability.

SU will always remain your academic home. Please visit our alumni platform, www.matiesconnect.com. It allows you to stay in touch with your university friends, view job offers as well as find mentors and networking opportunities – all in one spot. Studies have shown that engagement in strong alumni networks holds significant benefits, not least for professional development. Do stay connected to the Matie family to advance your career.

Until we meet again!

Prof Wim de Villiers
Rector and Vice-Chancellor

Altyd 'n Matie

Geluk en welkom in die Universiteit Stellenbosch se alumni-familie! Jou gradeplegtigheid is 'n belangrike mylpaal, en ook die begin van jou voortgesette verbintenis met jou alma mater. Die Alumni-kantoor is jou lewenslange skakel met die Universiteit.

Daar is vele maniere om in kontak te bly.

Tuiskoms-en-familienaweek

Die Universiteit se Tuiskoms-en-familienaweek vir alumni vind vanaf Donderdag, 23 September 2021, tot Saterdag, 25 September 2021, op die Stellenboschkampus plaas. Inligting is beskikbaar by www.matiesalumni.com.

Sluit aan by Maties Connect

Ons www.matiesconnect.com-platform sal jou help om jou professionele netwerk uit te brei, 'n mentor te vind, alumni te bereik, en op hoogte te bly van gebeure by jou alma mater.

Wees deel van 'n Alumni-hub

Die Stellenbosch Alumni-betrekkinge-span stel plaaslike en internasionale alumni-nawe (oftewel hubs) saam om die skakeling tussen alumni onderling te verbeter deur gereelde netwerke en sosiale geleenthede aan te bied. Vir meer inligting oor hoe om 'n hub in jou gebied te stig of by een van ons gevestigde hubs aan te sluit, stuur 'n e-pos na alumni@sun.ac.za.

Always a Matie

Congratulations and welcome to the Stellenbosch University alumni family! Your graduation is a momentous occasion and marks the beginning of your continued relationship with your alma mater. The Alumni Office is your lifelong connection to the University.

There are many ways to stay connected.

Homecoming and Family Weekend

The University's Homecoming and Family Weekend takes place from Thursday, 23 September 2021, to Saturday, 25 September 2021, on the Stellenbosch Campus. Information is available on www.matiesalumni.com.

Join Maties Connect

Our www.matiesconnect.com platform will help you increase your professional network, find a mentor, reach out to alumni, and keep up to date on what's happening at your alma mater.

Be part of an Alumni Hub

The Stellenbosch Alumni Relations team establish alumni hubs both locally and internationally to connect alumni in specific regions with one another through regular networking and social events. For more information on how to start or join an existing hub in your area, send an e-mail to alumni@sun.ac.za.

I-Matie ngalo Lonk' ixesha

Sivuyisana nawe kwaye wamkelekile kusapho olungabo babesakufunda kwiYunivesithi yaseStellenbosch! Ukuthweswa kwakho isidanga lixesha apha elakha labaluleka, kwaye likwalixesha eliphawula ukuqalisa kwakho ubudlelwane obuqhubekayo kunye nale yunivesithi owawusakufunda kuyo. IOfisi yabo Babesakuba Ngabafunda Apha yiyo ekunxulumanisa neYunivesithi ubomi bakho bonke.

Zininzi iindlela zokuhlala uqhagamshelikile.

IMpelaveki yoBuyelo-khaya ubenoSapho

IMpelaveki yoBuyelo-khaya ubenoSapho eyenzelwe abo babesakufunda apha yenzeka ukusuka ngoLwesine umhla wama-23 kwinyanga yoMsintsi ukuyokutsho ngoMgqibelo umhla wama-25 kweyoMsintsi 2021 kwikhampasi yaseStellenbosch. Iingombolo ezithe vetshe zifumaneka ku-www.matiesalumni.com.

Joyina i-Maties Connect

Iqonga lethu le-www.matiesconnect.com liza kukunceda ekwandiseni inani leengcali onxibelelana nazo, ekufumaneni umcebisi onamava, ekufikeleleni kwabanye ababefunda apha nasekubeni uhlale usazi ngokwenzekayo ngale yunivesithi owawusakufunda kuyo.

Yiba yinxalenye yeQela labo baBesakuba ngaBafundi balapha

Iqela lezoNxibelelwano lwabo baBesakuba ngaBafundi balapha lisungula amaqela abo babesakuba ngabafundi apha naza kuzinza kweli lizwe nakwamanye amazwe ukuze kunxibelelwane ngabo babesakuba ngabafundi apha abakwiingqi ezithile oko kusenziwa ngokunxibelelana rhoqo nangeendibano zasekuhlaleni. Ukuba ufuna iinkcukacha ezithe vetshe malunga nendlela yokuqalisa okanye yokujoyina iqela esele likho kwiingqi yakho, thumela i-imeyili ku-alumni@sun.ac.za.

Gradeplegtighede | Graduation Ceremonies

A Desember 2020-gradeplegtighede | December 2020 graduation ceremonies

B Covid-19-protokol vir gradeplegtighede | Covid-19 graduation protocol

C FISIESE (IN-PERSOON) TOEKENNINGS | PHYSICAL (FACE-TO-FACE) AWARDS

1. 15 DESEMBER | 15 DECEMBER (09:00)

Fakulteit Geneeskunde en Gesondheidswetenskappe | Faculty of Medicine and Health Sciences (Groep 1 | Group 1)

- Eredoktorsgraad | Honorary Doctorate
- Doktorale Kwalifikasies | Doctoral Qualifications

2. 15 DESEMBER | 15 DECEMBER (12:00)

Fakulteit Geneeskunde en Gesondheidswetenskappe | Faculty of Medicine and Health Sciences (Groep 2 | Group 2)

- Doktorale Kwalifikasies | Doctoral Qualifications

Kanselierstoekennings | Chancellor's Awards

3. 15 DESEMBER | 15 DECEMBER (15:00)

Fakulteit Ingenieurswese | Faculty of Engineering (Groep 1 | Group 1)

- Doktorale Kwalifikasies | Doctoral Qualifications

Kanselierstoekennings | Chancellor's Awards

4. 15 DESEMBER | 15 DECEMBER (18:00)

Fakulteit Ingenieurswese | Faculty of Engineering (Groep 2 | Group 2)

- Doktorale Kwalifikasies | Doctoral Qualifications

Kanselierstoekenning | Chancellor's Award

- Afdeling van die Rektor | Division of the Rector

D VIRTUELE TOEKENNINGS | VIRTUAL AWARDS (15 DESEMBER | DECEMBER)

Nagraadse en Voorgraadse Kwalifikasies | Postgraduate and Undergraduate Qualifications

- Geneeskunde en Gesondheidswetenskappe | Medicine and Health Sciences
- Ingenieurswese | Engineering

Desember 2020-gradeplegtighede

Ons vier die akademiese prestasies van duisende studente van die Universiteit Stellenbosch (US) wat in Desember gradueer. Die gradeplegtighede sal in 'n formaat gehou word wat aan Covid-19-regulasies voldoen, en nie graduandi óf hul gaste se gesondheid en veiligheid in gevaar sal stel nie.

Die Rektorat het 'n hibriediese gradeplegtighedsmodel goedgekeur wat bestaan uit klein fisiese plegtighede (van aangesig tot aangesig) van 14 tot 16 Desember, sowel as fakulteitspesifieke aanlyn plegtighede.

Twaalf klein fisiese gradeplegtighede (vier per dag) sal in die Endlersaal van die Konservatorium op ons Stellenboschkampus gehou word vir die verlening van doktorsgrade (ook dié uit die siklus van Maart/April 2020), eredoktorsgrade, die Kanselierstoekenings, en die Kanseliersmedalje.

Fakulteitspesifieke aanlyn plegtighede sal vir die res van die graduandi-kategorieë gehou word, wat dus hulle kwalifikasies in absentia sal ontvang. Die skakels na hierdie plegtighede sal op 14 Desember vrygestel word.

Daarbenewens hou ons Fakulteit Geneeskunde en Gesondheidswetenskappe op onderskeidelik 18 November en 14 Desember twee fisiese toewydingsplegtighede (van aangesig tot aangesig) op Tygerbergkampus.

Die hiperkoppeling na die fakulteitspesifieke **aanlyn gradeplegtighede** sal op die volgende datums en tye vrygestel word:

Datum	Tyd	Fakulteit
Maandag, 14 Desember 2020	9:00	Lettere en Sosiale Wetenskappe
	15:00	AgriWetenskappe
	18:00	Krygskunde Opvoedkunde Regsgeleerdheid Teologie
Dinsdag, 15 Desember 2020	9:00	Ingenieurswese
	15:00	Geneeskunde en Gesondheidswetenskappe
Woensdag, 16 Desember 2020	9:00	Ekonomiese en Bestuurswetenskappe
	15:00	Natuurwetenskappe

December 2020 graduation ceremonies

We are celebrating the academic achievements of thousands of Stellenbosch University (SU) students graduating in December this year. Graduation will occur in a format that complies with Covid-19 regulations and will not put the health and safety of graduands or their guests at risk.

The Rectorate approved a hybrid graduation model that consists of small face-to-face ceremonies from 14 to 16 December, as well as faculty-specific online ceremonies.

Twelve small physical graduation ceremonies (four per day) will be held in the Endler Hall of the Conservatoire on our Stellenbosch Campus for the conferral of doctorates (including those from the March/April 2020 cycle), honorary doctorates, the Chancellor's Awards and the Chancellor's Medal.

Faculty-specific online ceremonies will be held for the remainder of the categories of graduands, who will therefore receive their qualifications in absentia. The links to these ceremonies will be released on 14 December.

In addition, our Faculty of Medicine and Health Sciences is holding two face-to-face pledge ceremonies on Tygerberg Campus – on 18 November and 14 December.

The hyperlinks to the faculty-specific **virtual graduation ceremonies** will be released on the following dates and at the following times:

Date	Time	Faculty
Monday, 14 December 2020	09:00	Arts and Social Sciences
	15:00	AgriSciences
	18:00	Education Law Military Science Theology
Tuesday, 15 December 2020	09:00	Medicine and Health Sciences
	15:00	Engineering
Wednesday, 16 December 2020	09:00	Economic and Management Sciences
	15:00	Science

Covid-19-protokol vir gradeplegtighede

Covid-19 graduation protocol

- Alle graduandi en gaste ontvang unieke sitpleknommers. Moet asseblief nie sitplekke ruil of van sitplek verander nie, want die sitplekrekord en -geskiedenis sal vir enige moontlike kontaksporing gebruik word.
- Alle lokale word sowel voor as na elke plegtigheid deeglik volgens die goedgekeurde Covid-19-protokol skoongemaak en ontsmet.
- Dit is verpligtend vir sowel graduandi as gaste om vir die volle duur van die plegtigheid 'n masker te dra, ook wanneer graduandi oor die verhoog stap.
- Hoewel graduandi oor die verhoog sal stap, sal die Registrateur geen graadserpe omhang nie om aan Covid-19-protokol te voldoen.
- Handhaaf asseblief te alle tye 'n veilige afstand van 1,5m van ander.
- Dit is verbode om enige kos in die lokaal in te bring of te eet. Slegs water word in die lokaal toegelaat.
- Ons versoek vriendelik dat u die lokaal so vinnig moontlik ná die geleentheid verlaat sodat skoonmaak en ontsmetting met die oog op die volgende plegtigheid kan begin.
- Sorg asseblief dat u enige afval soos waterbottels, sneesdoekies, ensovoorts met u saamneem wanneer u die lokaal verlaat. Gebruik gerus die vullissak wat vir dié doel voorsien word.
- Gaste en graduandi wat nie aan hierdie voorwaardes voldoen nie, sal versoek word om die lokaal te verlaat.
- All graduands and guests have been assigned unique seat numbers. Please do not move or change seats, as the seating record and history will be used for any potential contact tracing.
- All venues are thoroughly cleaned and disinfected as per the approved Covid-19 protocol before and after each ceremony.
- The wearing of a mask is compulsory for both graduands and guests for the full duration of the ceremony, including when graduands cross the stage.
- While graduands will cross the stage, there will be no hooding by the Registrar to comply with Covid-19 protocol.
- Please maintain a safe distance of 1,5m from others at all times.
- No food may be brought into or consumed in the venue. Only water is permitted inside the venue.
- We respectfully request that you exit the venue as swiftly as possible after the event so that cleaning and sanitising with a view to the next ceremony may commence.
- Kindly ensure that you take along any waste items such as water bottles, tissues, etc. when you exit the venue. Please utilise the waste disposal bag provided.
- Guests and graduands not adhering to the above conditions will be requested to leave the venue.

Fisiese Toekennings
(in-persoon)

Fakulteit Geneeskunde en
Gesondheidswetenskappe

09:00 – Groep I

Physical Awards
(face-to-face)

Faculty of Medicine and
Health Sciences

09:00 – Group I

PROGRAM

- | | |
|------------------------|---|
| <i>Staan asseblief</i> | 1. Akademiese prosesie kom die saal binne. |
| <i>Staan asseblief</i> | 2. Speel van die Nasionale Lied. |
| <i>Sit asseblief</i> | 3. Formele konstituering deur die Kanselier/Visekanselier. |
| | 4. Verwelkoming deur die Kanselier/Visekanselier. |
| | 5. Voorstelling van die eredoktorandus en toekenning van die eregraad deur die Kanselier/Visekanselier. |
| | 6. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Kanselier/Visekanselier. |
| | 7. Sluiting deur die Kanselier/Visekanselier. |
| <i>Staan asseblief</i> | 8. Akademiese prosesie verlaat die verhoog. |

PROGRAMME

- | | |
|---------------------|---|
| <i>Please stand</i> | 1. Entrance of academic procession into the hall. |
| <i>Please stand</i> | 2. Playing of the National Anthem. |
| <i>Please sit</i> | 3. Congregation formally constituted by the Chancellor/Vice-Chancellor. |
| | 4. Welcome by the Chancellor/Vice-Chancellor. |
| | 5. Presentation of the candidate for the honorary doctorate and conferment of the degree by the Chancellor/Vice-Chancellor. |
| | 6. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Chancellor/Vice-Chancellor. |
| | 7. Closing by the Chancellor/Vice-Chancellor. |
| <i>Please stand</i> | 8. The academic procession leaves the stage. |

EREDOKTORSGRAAD | HONORARY DOCTORATE

Fakulteit Geneeskunde en Gesondheidswetenskappe Faculty of Medicine and Health Sciences

Die graad Dokter in die Natuurwetenskappe (DSc), *honoris causa*, aan
The degree Doctor of Science (DSc), *honoris causa*, to

QUARRAISHA ABDOOL KARIM

vir haar baanbrekersnavorsing op die gebied van MIV en as kampvegter vir die regte van mense wat met MIV saamleef of daardeur geraak word; vir haar toewyding om die gesondheid van jongvroue in Afrika en in die res van die wêreld te bevorder; vir haar leierskap in navorsing en wetenskaplike deurbraake; en vir haar ruimhartigheid om haar kennis deur wetenskaplike en burger-gesentreerde ondernemings in Afrika en selfs verder te deel.

Met haar doel om die nasionale en internasionale fokus op MIV-voorkoming – veral onder tienermeisies en jong vroue in Sub-Sahara Afrika – te verhoog, was prof Quarraisha Abdool Karim aan die spits van MIV-navorsing wêreldwyd vir die afgelope 28 jaar.

Dit was haar span by die Sentrum vir Vignavorsing in Suid-Afrika (CAPRISA), waar sy mededirekteur van navorsing is, wat die Tenofovir-gel CAPRISA 004-toets gedoen het. Hierdie baanbrekerstudie het vir die eerste keer getoon dat antiretrovirale middels MIV-infeksie kan voorkom.

As A-gegradeerde Suid-Afrikaanse navorser en epidemioloog in aansteeklike siektes is prof Karim ook professor in Kliniese Epidemiologie by die Mailman Skool van Openbare Gesondheid by Columbia Universiteit, New York, en pro-vicekanselier vir Afrikagesondheid by die Universiteit van KwaZulu-Natal.

Sy word wêreldwyd erken vir haar wetenskaplike bydraes om die behoefte aan vroue-geïnisieerde tegnologieë en die integrasie van MIV-voorkomingspogings met dienste vir seksuele voortplantingsgesondheid aan te spreek.

Hierdie werk het haar reeds meer as 30 nasionale en internasionale toekennings besorg, insluitende die Orde van Mapungubwe, die hoogste erkenning aan landsburgers deur die President van Suid-Afrika, en die vooraanstaande L'Oreal-UNESCO Vroue in die Wetenskap-toekenning vir Afrika en die Midde-Ooste.

Prof Karim is die Spesiale Ambassadeur vir tieners en MIV van UNAIDS (die Verenigde Nasies se Vigs-program) en die wetenskaplike adviseur aan die uitvoerende direkteur van UNAIDS.

for her pioneering research in the field of HIV and for advocating for the rights of people living with and affected by HIV; for her commitment to advancing the health of young women in Africa and globally; for her research leadership and scientific breakthroughs; and for her generosity in sharing her knowledge through scientific and citizen-centred endeavours in Africa and beyond.

Intent on increasing the national and international focus on HIV prevention, especially among adolescent girls and young women in Sub-Saharan Africa, Prof Quarraisha Abdool Karim has been at the global forefront of HIV research for 28 years.

It was her team at the Centre for AIDS Research in South Africa (CAPRISA) – where she is associate scientific director – that conducted the landmark Tenofovir gel CAPRISA 004 trial. This trial demonstrated for the first time that anti-retrovirals can prevent HIV infection.

An A-rated South African scientist and infectious disease epidemiologist, Prof Karim is also professor in clinical epidemiology at the Mailman School of Public Health at Columbia University, New York, and pro-vice chancellor for African Health at the University of KwaZulu-Natal.

She is recognised worldwide for her scientific contributions in highlighting the need for women-initiated technologies and the importance of integrating HIV prevention efforts into sexual reproductive health services.

This work has brought her over 30 national and international awards, including the Order of Mapungubwe, South Africa's highest civilian honour, and the prestigious L'Oreal-UNESCO Women in Science award for Africa and the Middle East.

Prof Karim is Special Ambassador for Adolescents and HIV of the Joint United Nations Program on AIDS (UNAIDS) and scientific advisor to the executive director of UNAIDS.

DOKTORALE KWALIFIKASIES | DOCTORAL QUALIFICATIONS

**DOKTOR IN DIE WYSBEGEERTE
DOCTOR OF PHILOSOPHY**

DAWOOD, Gouwa (Audiology)

An analysis of auditory functioning and capabilities of children with HIV living in low socio-economic communities

This novel and important study investigated the relationship between auditory function and learning capacity in pre-teen children living (or not) with HIV in low socio-economic circumstances in one Cape Town area. All children were tested for hearing deficits and learning capacity, and auditory processing skills were assessed for children with normal hearing. There was similar hearing loss prevalence in HIV-positive and negative children, and hearing loss had no impact on learning capacity. However auditory processing skills were strongly correlated with learning capacity, with HIV-affected children having significantly poorer auditory processing skills and learning capacity than their non-HIV-infected peers.

Supervisor: Prof K Grimmer

Co-supervisors: Profs D Klop, M Pillay (external)

DU PREEZ, Karen (Paediatrics and Child Health)

Complementary surveillance strategies and interventions to inform a tuberculosis care cascade for children

The limited availability of age-disaggregated tuberculosis surveillance data for paediatric and adolescent populations and the lack of specific monitoring and evaluation approaches hamper TB control efforts in these special populations. This study investigated the role of diagnostic and treatment surveillance strategies with consideration of age, disease severity and HIV to inform two pillars of a paediatric tuberculosis care cascade in South Africa. The study also demonstrated the impact of linkage-to-care to reduce patient losses between diagnosis and treatment. A care cascade as a framework for practical monitoring and evaluation can improve tuberculosis care and health services for children and contribute towards achieving the ambitious global targets set for tuberculosis control.

Supervisor: Prof AC Hesselning

Co-supervisors: Dr P Naidoo, Prof HS Schaaf

DU TOIT, Riette (Internal Medicine)

Lupus myocarditis: Diagnostic characteristics and outcome of myocardial injury

Lupus myocarditis is a serious manifestation of systemic lupus erythematosus (SLE). This study defined the features of clinical and subclinical myocardial injury through echocardiography, cardiac magnetic resonance imaging (CMR) and cytokine profiles. Major contributions of the study include the provision of much-needed local data, the identification of predictors of outcome, the use of echocardiography in early detection of ventricular dysfunction, the detailing of the pathology of myocardial injury by performing CMR tissue characterisation and the provision of deeper understanding of the pathogenesis of myocardial injury by exploring candidate cytokine pathways. The study provides insight into an early, cost-effective diagnosis and identified potential targets for therapeutic intervention in this serious condition.

Supervisor: Prof AF Doubell

Co-supervisor: Prof H Reuter

EKOUME, Fany Pricile (Nuclear Medicine)

Implementation of guidelines on hospital radiopharmacy in low-income settings

International guidelines for radiopharmacy practice recommend complex facilities and extensive quality management programmes that are difficult to meet in lower-income settings. To investigate the consequences of not meeting international requirements, and whether practice can be improved without major expenditure, this study investigated aspects of quality management in three radiopharmacies with different facilities and economic backgrounds in Cameroon, South Africa and the Netherlands. The study demonstrates that self-audits and implementation of simple, affordable interventions can play an important role in the provision of safe and effective radiopharmaceuticals. The study recommendations will be valuable for radiopharmacy practice in many African countries.

Supervisor: Prof SM Rubow

Co-supervisor: Prof HH Boersma (external)

FATTI, Geoffrey Libero (Epidemiology)

An evaluation of the effectiveness of task-shifting health systems approaches, including community-based and pharmaceutical care models, for HIV treatment and prevention programs in South Africa

This study evaluated the effectiveness of task-shifting health system interventions for HIV prevention and treatment, including community-based programmes, utilising lay healthcare workers and pharmaceutical care models. Data were collected in four cohort studies in four South African provinces between 2004 and 2016, with participants including the key population groups of adolescents and pregnant women. The results indicate that these healthcare models may reduce HIV incidence and improve outcomes of patients receiving antiretroviral therapy. Task-shifting health system models are effective and cost-efficient for HIV programme delivery and may aid southern Africa's progress towards several of the interrelated UNAIDS Sustainable Development Goals by 2030.

Supervisor: Prof UME Chikte

Co-supervisor: Prof J Nachega

HUNTER, Luke David (Internal Medicine)

Echocardiographic screening for subclinical rheumatic heart disease: Improving screening through simplification of the diagnostic criteria

This study developed and validated a novel set of echocardiographic screening criteria for the detection of latent rheumatic heart disease (RHD). The shortcomings of the World Heart Federation criteria were addressed by developing a non-measurement-based and morpho-mechanistic valve assessment. The new criteria achieved a very high screening sensitivity and specificity. Criteria validation was performed using a novel composite reference gold standard for RHD. A sensitive, two-step rule-out test with a high negative predictive value was incorporated to simplify screening in the field. This study promises to make large-scale and sustained echocardiographic RHD screening a reality.

Supervisor: Dr PG Herbst

Co-supervisor: Prof AF Doubell

LE ROUX, Johannes Stephanus (Nuclear Medicine)

Optimization of production methods for gallium-68-labelled PET radiopharmaceuticals in a hospital radiopharmacy

Nuclear Medicine departments in South Africa have access to a limited range of PET radiopharmaceuticals for clinical and research applications. Radiopharmacies in clinical departments mostly have only limited and relatively basic equipment for production and quality control purposes. In-house radiosynthesis and analytical methods therefore require careful consideration to ensure safety and efficacy. An optimised automated synthesis method was successfully developed in this study for the production of a proposed infection imaging agent, gallium-68 ubiquicidin. The approach to optimisation and validation used in this study can also be used for the production of other PET radiopharmaceuticals in relatively small hospital radiopharmacies.

Supervisor: Prof SM Rubow

Co-supervisor: Prof T Ebenhan (external)

MCCAUL, Michael Gilbert (Public Health)

Strengthening pre-hospital clinical practice guideline development for South Africa

This study explored how to strengthen prehospital clinical practice guideline development and implementation in low-resource settings. Using the African Federation for Emergency Medicine prehospital clinical practice guideline as a case study, the study used various research methods to identify, map and appraise global and regional prehospital guidelines; describe and strengthen guideline development methods; and identify guideline implementation challenges and solutions. This study provides emergency care guideline developers with a critical reflection and roadmap for developing robust clinical practice guidelines that are fit for purpose, responsive to end user needs and more likely to improve healthcare delivery and health.

Supervisor: Prof M Clarke

Co-supervisors: Profs S Bruijns, T Young

McLEAN, Robert Kenneth Douglas (Public Health)

Innovation and incentives: Role of the research funder in knowledge translation and scaling science

Scientific research is converted into real-world action in slow, haphazard and inequitable ways. This study casts new light on an understudied component of knowledge translation and scaling science: the role of the research funder. The study employed a qualitative and quantitative, mixed-method design to study a global sample of research funders and two in-depth case studies in an integrated knowledge translation approach. The results fill critical knowledge and practice gaps, generating practical guidance for researchers wanting to see their work having more meaningful impact, and a validated evaluation framework for measuring the quality of translational and socially oriented research.

Supervisor: Prof JA Volmink

Co-supervisor: Prof ID Graham (external)

NABUUMA, Deborah (Nutritional Sciences)

Development of a contextualized food-based strategy to improve the dietary diversity and nutritional status of children aged 12 to 36 months in rural farming households in Central Uganda

This study developed a food-based strategy to improve dietary diversity among children aged 12 to 36 months from rural smallholder farming households in Central Uganda. Food production and consumption were of low diversity. Food production was focused on priority crops for hunger alleviation and income, and was influenced by land access, production costs, income potential, climate, and farmer knowledge and experience. Food costs and market availability influenced the type and quantity of food bought. Using the intervention mapping protocol, a contextualised food-based strategy was developed and validated with the aim to improve dietary diversity through improved food production, income utilisation and food consumption practices.

Supervisor: Prof XG Mbhenyane

Co-supervisors: Dr B Ekese-Onyango (external), Prof M Faber (external)

NGOUNOU, Eleonore (Morphological Sciences)

Hyperglycaemia and its implications on the pancreatic islet microvasculature in diabetic rat models

This study used two experimental diabetic rat models to investigate the level of vascular damage and the pattern, structural distribution and histomorphology of the pancreatic microvasculature under the insult of hyperglycaemia. The study adds novelty to existing research through the use of advanced techniques of experimental models. The findings lay the foundation for future research and understanding of the functional anatomy of the pancreatic vasculature in general, islet microvasculature in particular and the pattern of blood distribution. This knowledge will be a critical tool in enhancing drug-delivery research for the treatment of diabetic patients.

Supervisor: Dr A Alblas

Co-supervisors: Prof KJ Baatjes, Ms LM Greyling, Prof BJ Page

SCHEFFLER, Elsje Sophia (Family Medicine)

The design, development and evaluation of an appropriate stroke rehabilitation training program for community health workers in a rural primary healthcare setting in the Western Cape, South Africa

Many people in South Africa suffer from stroke and families cope with impairments and dependency. Most stroke survivors in the Cape Winelands were discharged after five days in hospital and struggled to access therapy, but could be visited by a community health worker. However, family caregivers and community health workers did not know how to help. Participatory action research was used in this study to develop and evaluate a bespoke training programme for community health workers to empower family caregivers. After training, community health workers were able to train caregivers, help with assistive devices, refer when necessary and improve the functioning and dignity of survivors.

Supervisor: Prof RJ Mash

STANDER, Jessica (Physiotherapy)

A tailored training programme for South African physiotherapists on the use of evidence-based clinical practice guidelines when treating patients with acute and sub-acute low back pain

This multi-stage, mixed methods study developed and tested a tailored training programme addressing factors influencing clinical practice guideline uptake by physiotherapists. Three studies underpinned and an expert validation study confirmed the programme's content and delivery method. The programme consisted of an interactive face-to-face session preceded by podcasts. A feasibility and likely impact study evaluated self-perception and understanding of guidelines assessing knowledge, attitudes and behavioural outcomes. Pre-programme evaluations demonstrated lack of awareness of the nature, intent and construction of guidelines and accessibility and implementation thereof. Post-programme evaluations showed improvements in all outcomes and significant behaviour change, with physiotherapists using guidelines more regularly.

Supervisor: Dr Y Brink

Co-supervisor: Prof K Grimmer

VAN DER MERWE, André (Urology)

Penile allotransplantation for phallic loss due to ritual circumcision: Proof of concept

South Africa has been at the forefront of organ transplantation, and the success of the penis transplant performed by the candidate marked another landmark in medical history. This study identified a desperate need for penis allotransplants among young men suffering penile loss following ritual circumcisions. This unique study addressed the surgical and medical aspects of the treatment and documented the remarkable restoration of all the physiological functions in the cases treated. Importantly, the study interrogated the ethical aspects of the procedure in some depth and contextualised the transplant in the cultural setting in which it was undertaken.

Supervisor: Prof MR Moosa

Fisiese Toekennings
(in-persoon)

Fakulteit Geneeskunde en
Gesondheidswetenskappe

12:00 – Groep 2

Physical Awards
(face-to-face)

Faculty of Medicine and
Health Sciences

12:00 – Group 2

PROGRAM

- Staan asseblief* 1. Akademiese prosesie kom die saal binne.
- Staan asseblief* 2. Speel van die Nasionale Lied.
- Sit asseblief* 3. Formele konstituering deur die Kanselier/Visekanselier.
4. Verwelkoming deur die Kanselier/Visekanselier.
5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Kanselier/Visekanselier.
6. Voorstelling van kandidate vir die Kanselierstoekennings en oorhandiging van die toekennings deur die Kanselier/Visekanselier.
7. Sluiting deur die Kanselier/Visekanselier.
- Staan asseblief* 8. Akademiese prosesie verlaat die verhoog.

PROGRAMME

- Please stand* 1. Entrance of academic procession into the hall.
- Please stand* 2. Playing of the National Anthem.
- Please sit* 3. Congregation formally constituted by the Chancellor/Vice-Chancellor.
4. Welcome by the Chancellor/Vice-Chancellor.
5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Chancellor/Vice-Chancellor.
6. Introduction of the candidates for the Chancellor's Awards and presentation of the awards by the Chancellor/Vice-Chancellor.
7. Closing by the Chancellor/Vice-Chancellor.
- Please stand* 8. The academic procession leaves the stage.

DOKTORALE KWALIFIKASIES | DOCTORAL QUALIFICATIONS

**DOKTOR IN DIE WYSBEGEERTE
DOCTOR OF PHILOSOPHY**

BOTHA, Johannes Christiaan (Medical Virology)

The role of clonally expanded HIV-1 infected cells in maintaining HIV reservoirs in adults and children on antiretroviral treatment

In this study, two novel assays were designed to characterise HIV-1 proviruses from the most expanded CD4 cell clones based on their integration sites into the human genome. Infected cell clones with severely deleted HIV-1 proviruses were identified in early-treated children and observed to wax and wane over time. In addition, clinical cases of non-suppressible HIV viraemia without evidence of treatment failure were investigated to identify the source of viraemia. Proviral clones were implicated as a possible cause of non-suppressible viraemia. In addition, a case of false treatment failure, caused by cytolysis of a large defective proviral clone, was identified.

Supervisor: Prof GU van Zyl
Co-supervisor: Prof S Engelbrecht

BRUWER, Belinda Rogena (Psychiatry)

The role of social-cognitive processes in mother–infant bonding

Mother–infant bond quality and the mother’s ability to recognise and respond to an infant’s facial expressions influence a child’s outcome. This study investigated associations between maternal facial affect recognition (FAR) and maternal factors, and whether impaired FAR associates with poorer mother–infant bonding quality at six weeks postpartum in a Western Cape heterogeneous mother–infant dyad sample. The findings suggest an association between impaired FAR in low socio-economic status participants with increased adverse life events and depression scores. Maternal FAR deficits influenced mother–infant bonding quality. The study’s findings offer ways to identify and intervene in high-risk mother–infant dyads to improve mother–infant bonding quality and outcomes.

Supervisor: Prof DJH Niehaus
Co-supervisor: Dr JM Leppänen (external)

CILLIERS, Melanie (Psychiatry)

Measuring neurocognitive functioning in HIV-infected adults: South African norms and the development of a shortened version of the HNRC international neurocognitive battery

The HIV Neurobehavioral Research Center (HNRC) international battery is a comprehensive, diagnostic, cross-cultural, multi-domain test battery for the detection of neurocognitive impairments (NCI) associated with HIV. This study firstly optimised diagnostic accuracy in identifying HIV-associated neurocognitive disorders in adults living with HIV by generating demographically corrected South African norms; secondly, developed a brief and clinically feasible version of the HNRC battery; and thirdly, validated it against the original battery. The abbreviated battery showed good diagnostic accuracy in identifying NCI with a significant reduction in administration time. It provides a valuable tool for use in a variety of clinical and research settings.

Supervisor: Prof S Seedat
Co-supervisors: Drs G Spies, S Suliman

KRIEK, Marina (Molecular Biology)

Quality control for data-dependent and data-independent mass spectrometry-based proteomics

Among systems biology techniques, proteomics has been perceived as lagging in reproducibility. Tools to quantify variability in LC-MS/MS, the primary proteomics technology, have begun to enter broader use. This study entailed three research efforts. The first, published in the journal *Proteomics*, evaluated the extent to which protein fractionation introduces variability. The second introduced the SwaMe software to measure variability in untargeted quantitation experiments. The third study sought to ‘lower the bar’ for research technicians to be able to use quality metrics without the aid of a bioinformatician. Together, these studies represent considerable novelty and value to the proteomics community.

Supervisor: Prof DL Tabb
Co-supervisor: Dr SH Stoychev (external)

MARX, Melanie (Psychiatry)

Hormones in hair as possible predictive biomarkers of posttraumatic stress symptoms in women who have been raped

This longitudinal study was the first to investigate neurohormone (cortisol, cortisone, testosterone, dehydroepiandrosterone and progesterone) concentrations in hair in relation to posttraumatic stress symptom severity (PTSS) over a six-month period in rape-exposed women early after rape and in rape-unexposed women. Pre-trauma hair hormone concentrations were not predictive of post-rape PTSS; however, other predictors of three-month PTSS severity were identified, namely depression and cumulative and perceived stress. This study suggests that trauma- and mental health-related characteristics early after rape may be more robust indicators of PTSS trajectories than neurohormonal characteristics.

Supervisor: Prof S Seedat
Co-supervisors: Profs C Kirschbaum (external), N Abrahams (external)

MIKASI, Sello Given (Medical Virology)

Investigating the structural impact of HIV-1 integrase natural-occurring polymorphisms and novel mutations identified among group M subtypes circulating in sub-Saharan Africa

HIV-1 is highly diverse, with all the major strains circulating in Africa. HIV-1 diversity has made it difficult to find a vaccine against the virus. The viral integrase protein is responsible for inserting the viral DNA into the host genome. Integrase strand-transfer inhibitors are now recommended by the World Health Organization as part of life-long antiretroviral therapy for infected patients. This study investigated how natural-occurring polymorphisms and resistance-associated mutations affect the integrase protein structure and drug-binding affinity. By using structural molecular modelling and docking techniques, the study identified novel mutations that may lead to the development of drug resistance.

Supervisor: Dr GB Jacobs
Co-supervisors: Profs S Engelbrecht (internal), GU van Zyl (internal), Drs R Cloete (external), G Ikomey (external), C Kasang (external)

NIEMAND, Nandi (Molecular Biology)

Investigating the role of a novel protein in iron–sulphur cluster biogenesis in mycobacteria

Iron–sulphur (Fe-S) clusters are ubiquitous co-factors that contribute to a diversity of biological processes. While most proteins that contribute to Fe-S cluster formation have been identified, the exact role of A-type carrier proteins in the process is controversial. This study investigated the role of two mycobacterial A-type carrier proteins (Rv2204c and MSMEG_4272) in Fe-S cluster biogenesis and metabolism. In *Mycobacterium smegmatis*, MSMEG_4272 protein depletion was associated with decreased viability, altered iron homeostasis, decreased biofilm formation and altered antibiotic susceptibility. This suggests that A-type carriers may play an important role in mycobacterial pathogenesis, which therefore warrant further investigation.

Supervisor: Dr MJ Williams (*external*)

Co-supervisor: Prof RM Warren

NJENDA, Duncan Tazvinzwa (Medical Virology)

From bedside to bench and back: Future options for antiretroviral drugs in non-B HIV-1 subtypes

HIV-1 drug resistance remains a burden in low- and middle-income countries. Regardless of the advances in antiretroviral therapy, there is an increase in the trend of acquired and pre-treatment drug resistance mutations affected by HIV-1 non-B subtypes. The overall aim of this study was to understand the potential subtype-specific differences in viral fitness and drug susceptibility against the drugs that target different stages of viral replication, which include protease-mediated cleavage and maturation, reverse transcription and integration. The findings demonstrated an increase in HIV-1 ADR in South Africa and that the PI class may be compromised by mutations in HIV-1 gag.

Supervisor: Prof U Neogi (*external*)

Co-supervisors: Prof S Engelbrecht, Dr G Jacobs, Profs A Sönnnerborg (*external*), A-L Spetz (*external*)

ODIA, Trust Osee (Molecular Biology)

Longitudinal transcriptomic profiling of whole blood during tuberculosis treatment

This study analysed an RNA transcriptomic dataset of peripheral whole blood from cured tuberculosis patients who were followed from diagnosis to end of treatment to determine which genes correlated well with decreasing lung inflammation as measured by positron emission tomography. The study used linear mixed models to constrain the slope of mRNA with the slope of inflammation as a function of time using a per-subject repeated measures model that allowed both slope and intercept to vary. Analysis of the genes identified interesting biological pathways and two patterns of response among subjects to treatment.

Supervisor: Prof G Tromp

Co-supervisor: Prof G Walzl

OMUSE, Geoffrey Amuka (Chemical Pathology)

Reference intervals for common chemistry and haematology laboratory tests in a healthy Kenyan population: Variation with age, sex, BMI and comparison with a South African population

Laboratory results play an important role in the assessment of human health. The interpretation of quantitative laboratory results should be based on appropriate reference intervals (RIs). RIs vary across populations due to population, environmental and study methodology differences. This study determined RIs for a healthy adult Kenyan population using a globally harmonised protocol and compared them with South African RIs. The Kenyan RIs had some unique features that emphasised the need for population-specific RIs. Significant differences in RIs were found between Kenyans and South Africans, highlighting the need to further explore the reasons for these differences.

Supervisor: Prof TR Erasmus

Co-supervisors: Profs K Ichihara (*external*), Z Premji (*external*)

TOIKUMO, Sylvanus Ikiyo (Psychiatry)

Understanding the shared epigenetic roots of posttraumatic stress disorder and metabolic syndrome: A DNA methylation study

This study identified epigenome-wide profiles associated with posttraumatic stress disorder (PTSD) and PTSD metabolic syndrome (MetS) comorbidity by investigating genome-wide DNA methylation profiles and determined whether PTSD and PTSD-MetS comorbidity are associated with accelerated cellular ageing, as indexed by DNA methylation age. PTSD-MetS comorbidity was associated with numerous differentially methylated sites reflecting pathways involved in phospholipase signalling, long-term depression, and synthesis and secretion of cortisol. PTSD-MetS comorbidity was marginally associated with accelerated epigenetic ageing. These findings offer insight into the biological processes or pathways that are associated with PTSD-MetS comorbidity, laying the foundation for identification of novel therapeutic strategies.

Supervisor: Prof SMJ Hemmings

Co-supervisors: Dr S Malan-Muller, Prof S Seedat

VAN DER COLF, Berta Elizabeth (Medical Virology)

Seroprevalence and incidence of toxoplasma gondii, rubella and cytomegalovirus among Namibian women of childbearing potential

Intrauterine infections can result in death and disability and could hamper child development. However, information on the prevalence of important congenital infections in Namibia is limited. This study therefore provided the first toxoplasma gondii, cytomegalovirus (CMV) and rubella antibody prevalence data in Namibian pregnant women. Of 344 Namibian pregnant women, only 2.6% had toxoplasma gondii IgG, whereas 96% had rubella IgG and 100% had CMV IgG. There is a low risk of congenital toxoplasmosis due to the low force of infection and high level of rubella immunity, whereas CMV reinfections, rather than primary infections, are a concern and require further investigation.

Supervisor: Prof GU van Zyl

Co-supervisor: Prof SA Reju (*external*)

VOGES, Juané (Psychiatry)

Exploration of parental reflective function and mother–child interaction in a South African sample of women with peri- and postpartum psychosis

Peripartum psychosis poses a risk to mother–infant attachment security through impairing maternal sensitivity and quality of interaction. Parental reflective functioning may be a mechanism for impairments in mother–infant attachment, but has not been examined in this population. This descriptive, exploratory study determined the parental reflective function and quality of interaction among mothers with peripartum psychosis. Mothers with severe mental illness participated in the study. Although parental reflective functioning was impaired, mothers displayed the potential to develop this capacity. Impairments in the quality of mother–infant interaction were found. Psychosocial risk factors were prevalent and highlighted areas for intervention.

Supervisor: Prof DJH Niehaus

Co-supervisor: Prof A Berg

KANSELIERSTOEKENINGS | CHANCELLOR'S AWARDS

Fakulteit Geneeskunde en Gesondheidswetenskappe Faculty of Medicine and Health Sciences

JIMMY VOLMINK

Professor Jimmy Volmink, 'n gegraduateerde van die Universiteite van Kaapstad, Harvard en Oxford, is 'n professor in Kliniese Epidemiologie en tans die dekaan van die FGGW. Hy is die toonbeeld van 'n akademikus wat tydens sy loopbaan volgehoue bydraes gemaak het tot die visie van die fakulteit en belangrike leierskapsrolle vervul het by die US en op nasionale vlak. Sy indrukwekkende en volgehoue akademiese uitsette en internasionale statuur maak hom inderdaad 'n waardige kandidaat vir dié toonaangewende toekenning. Sy loopbaan strek van sy werk as 'n algemene praktisyn in 'n gemarginaliseerde gemeenskap in Mitchell's Plain tot by die mees onlangse eerbetoon van 'n eredoktorsgraad wat in Februarie 2021 deur KU Leuven aan hom toegeken gaan word. Dié lewenswerk is gegrond in sy strewe na maatskaplike geretigheid. Jimmy is 'n geweldig nederige man en hy verpersoonlik leierskap deur diensbaarheid. Sy bydrae tot die akademie en gesondheidswetenskappe duur voort deur sy rol as navorser, mentor en onderwyser.

Professor Jimmy Volmink, a graduate of the Universities of Cape Town, Harvard and Oxford, is professor of Clinical Epidemiology and dean of the FMHS. He is a consummate academic who during his career made sustained contributions to the vision of the faculty, and played important leadership roles both at SU and nationally. His impressive and sustained academic outputs and his highly regarded international stature make him a worthy recipient of this prestigious Chancellor's Award. His career spans from being a General Practitioner serving a marginalised community in Mitchell's Plain to his most recent accolade of an honorary doctorate from KU Leuven to be awarded in February 2021. This life work is grounded in his quest for social justice. Jimmy is an extremely humble man who epitomises servant leadership. He continues to contribute to academia and health sciences as a researcher, mentor and teacher.

MARIANA KRUGER

Prof Kruger, 'n pediatriese onkoloog en bio-etikus, het sedert haar aanstelling as die Uitvoerende Hoof van die Departement Pediatrie en Kindergesondheid uitsonderlike diens aan die US gelewer. Haar visionêre, energieke en innoverende leierskap het die instelling gehelp om opleiding en kliniese dienslewering te versterk en navorsing te doen oor sommige van die mees dringende uitdagings vir kindergesondheid. Sy het twee keer die US se Rektorstoekenning vir algemene prestasie ontvang. Prof Kruger se rol om die behandeling van kinderkanker in Afrika te bevorder het haar internasionale eerbetoon besorg, insluitend haar verkiesing as die Afrika-president van die Internasionale Vereniging van Pediatriese Onkologie.

Prof Kruger, a paediatric oncologist and bio-ethicist, has served SU with distinction since her appointment as Executive Head of the Department of Paediatrics and Child Health in 2009. Her visionary, energetic and innovative leadership enabled our institution to strengthen training, clinical services and research, addressing some of the most pressing child health challenges of our time. She has twice received the SU Rectors Award for General Performance. Prof Kruger's role in the advancement of the treatment of childhood cancer in Africa has received global recognition, including through her election as the International Society of Paediatric Oncology Continental President for Africa.

Fisiese Toekennings
(in-persoon)

Fakulteit Ingenieurswese

15:00 – Groep I

Physical Awards
(face-to-face)

Faculty of Engineering

15:00 – Group I

PROGRAM

- | | |
|------------------------|---|
| <i>Staan asseblief</i> | 1. Akademiese prosesie kom die saal binne. |
| <i>Staan asseblief</i> | 2. Speel van die Nasionale Lied. |
| <i>Sit asseblief</i> | 3. Formele konstituering deur die Kanselier/Visekanselier. |
| | 4. Verwelkoming deur die Kanselier/Visekanselier. |
| | 5. Voorstelling van kandidate wat kwalifikasies ontvang deur die dekaan van die fakulteit en toekenning van kwalifikasies deur die Kanselier/Visekanselier. |
| | 6. Voorstelling van kandidate vir die Kanselierstoekennings en oorhandiging van die toekennings deur die Kanselier/Visekanselier. |
| | 7. Sluiting deur die Kanselier/Visekanselier. |
| <i>Staan asseblief</i> | 8. Akademiese prosesie verlaat die verhoog. |

PROGRAMME

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| <i>Please stand</i> | 1. Entrance of academic procession into the hall. |
| <i>Please stand</i> | 2. Playing of the National Anthem. |
| <i>Please sit</i> | 3. Congregation formally constituted by the Chancellor/Vice-Chancellor. |
| | 4. Welcome by the Chancellor/Vice-Chancellor. |
| | 5. Presentation of candidates receiving qualifications by the dean of the faculty and conferment of qualifications by the Chancellor/Vice-Chancellor. |
| | 6. Introduction of the candidates for the Chancellor's Awards and presentation of the awards by the Chancellor/Vice-Chancellor. |
| | 7. Closing by the Chancellor/Vice-Chancellor. |
| <i>Please stand</i> | 8. The academic procession leaves the stage. |

DOKTORALE KWALIFIKASIES | DOCTORAL QUALIFICATIONS

DOKTOR IN DIE WYSBEGEERTE DOCTOR OF PHILOSOPHY

BARNARD, Arno (Electronic Engineering)

Establishing a viable and reliable proton-induced single event effect test methodology and environment at iThemba LABS in South Africa

This dissertation details the establishment of a test environment at iThemba LABS, the first of its kind in Africa and the Southern Hemisphere. The design, development and verification of the methodology and environment, using a novel Beam-Loss-Monitor-based dosimetry system, are presented. Validation of the test facility design was done through in-beam measurements using 66 MeV and 200 MeV protons. The generated beam profiles complied with international standards. A viable testing environment for satellite researchers and industry to test candidate spacecraft electronics and improve radiation mitigation techniques was established through this research.

Supervisor: Prof WH Steyn

CLARK, Stephen Richard (Mechanical Engineering)

The use of natural gas to facilitate the transition to renewable electric power generation in South Africa

South Africa has commenced the transition to an electricity generation system based on renewable sources to meet greenhouse gas emission reduction goals. Due to the variable nature of solar and wind generation, dispatchable power is required whenever these sources fail to meet demand. This study focused on how and why natural gas-fuelled dispatchable generation should be utilised to meet this need. The study determined that the major challenge to meeting this dispatchable energy need with natural gas is to have sufficient gas storage to be able to provide gas at the high rates required for short-term usage.

Supervisor: Prof JL van Niekerk

Co-supervisor: Prof JG Petrie (external)

PAN, Christopher Adrian (Mechanical Engineering)

A technical and economic assessment of molten salt parabolic trough power plants and operating strategies in southern Africa

In this study, a dynamic molten salt parabolic trough solar power plant (PTPP) model was developed, validated and coupled with a location-tailored cost model for southern Africa. Through a technical and economic assessment, key design variables were determined that resulted in the highest potential improvements in terms of plant efficiency and profitability. In order to combine the cost reduction potentials of all design and operational parameters, a multi-objective optimisation was carried out. As a result, a range of power plant configurations and recommendations for operating strategies were derived that maximise the financial feasibility of molten salt PTPPs in southern Africa.

Supervisor: Prof F Dinter

Co-supervisors: Profs TM Harms, SJ van der Spuy

PEREZ, Sergi (Civil Engineering)

Site-specific traffic load factor approach for the assessment of existing bridges

Maintenance of existing bridges is a matter of ongoing concern for engineers and local authorities. A large percentage of bridges in service nowadays were constructed decades ago and their performance needs to be assessed. While important advances have been accomplished in this matter, especially regarding the resistance side of this issue, there are still opportunities for enhancements of the traffic load models used. A general and simple procedure, based on observation of basic traffic descriptors, for the estimation of the site-specific load effects on existing bridges was presented here. Results showed that the estimation of site traffic load effects can be significantly improved by using the proposed approach.

Supervisor: Prof R Lenner

VAN DER WESTHUIZEN, Ruan (Mechanical Engineering)

Optimization of a supercritical carbon dioxide solar thermal power system

A practical design procedure for the multi-objective optimisation of a solar thermal power system that uses a supercritical carbon dioxide (sCO₂) Brayton cycle was developed in this study. It is based on a series of design decisions that continually reduce the design space of the system, which consists of 23 design variables. Different optimal designs of the system are presented; the most efficient design achieved a thermal-to-mechanical efficiency of 40% at a turbine inlet temperature of 550 °C. This efficiency is demonstrated to be near the practical maximum for this type of system, which utilises a regenerative cycle configuration and a linear solar receiver.

Supervisor: Prof A Groenwold

Co-supervisor: Prof SJ van der Spuy

VAN ROOYEN, Melody (Mechanical Engineering)

Thermal power plant steel creep deformation measurement using digital image correlation

Following a rapid demand for electricity in South Africa, increased focus is directed towards structural health monitoring of critical components of ageing thermal power plants. Long-term operation at high temperatures and loads results in the degradation of material properties through creep exposure. This study shows that non-contact, optical measurement techniques such as digital image correlation allow for the extraction of high-density creep rate data in a sample-efficient manner using customised geometries with spatially varying temperature and stress fields. The presented techniques are shown to be useful for damage assessment of power plant components to allow for improved plant health management.

Supervisor: Prof TH Becker

KANSELIERSTOEKENINGS | CHANCELLOR'S AWARDS

Fakulteit Ingenieurswese | Faculty of Engineering

ANÈL DE BEER

Anèl se uitmuntende bydrae in professionele dienste is duidelik te bespeur. As departementele bestuurder van 'n tegnies-ingewikkelde ingenieursdepartement is sy verantwoordelik daarvoor dat die werking van die omgewing daaglik glad verloop. Dit doen sy met oorgawe, toewyding en professionaliteit. Die afgelope paar jaar het sy nie net die daaglikse bedrywighede bestuur nie, maar was sy ook verantwoordelik vir die departement se intrek in 'n nuutopgeknapt gebou. Sy het ook die leiding geneem om die departement gereed te kry vir die hervat van bedrywighede ná die Covid-19-grendeltydperk. Anèl de Beer het bygedra dat die Departement Bedryfsingenieurswese 'n suksesvolle akademiese departement in al sy aktiwiteite geword het.

Anèl's exemplary contribution in professional services is clearly evident. As departmental manager of a technically complex engineering department, she is responsible for the smooth daily operation of this environment. She does this with dedication, commitment and professionalism. Over the last few years, she not only managed the daily operations, but was also responsible for the department's move into a newly refurbished building. She also took the lead in readying the department for operations after the Covid-19 lockdown. Anèl de Beer has contributed to the Department of Industrial Engineering becoming a successful academic department in all its activities.

RODNEY DAVIDSE

Die volgehoue prestasie van Rodney Davidse oor meer as 46 jaar by die Universiteit Stellenbosch het verseker dat onderriginitiatiewe by die Departement Siviele Ingenieurswese glad verloop. Sy bydrae weerspieël die toewyding van een individu – wat self slegs 'n beperkte geleentheid vir primêre en tersiêre opleiding gehad het – tot die akademiese prestasies van verskeie generasies ingenieurstudente. Gedurende sy loopbaan het hy altyd gestreef daarna om verbeteringe en veranderinge in sy eie rol en sy omgewing te identifiseer. Hy bied onfeilbaar ondersteuning ver wyer as wat van hom verwag word.

The sustained efforts by Rodney Davidse over 46 years of employment with Stellenbosch University have ensured the smooth functioning of teaching initiatives at the Department of Civil Engineering. His contribution reflects the dedication and commitment of one individual—whose own background offered only limited opportunity for primary and tertiary education—to the academic achievements of multiple generations of engineering students. Throughout his career he has always worked to identify improvements and changes in his role and his environment, and unfailingly offers support far beyond what is expected of him.

GIDEON VAN ZIJL

Prof Gideon van Zijl speel die afgelope twintig jaar 'n besondere leiersrol in die Departement Siviele Ingenieurswese. Hy was verantwoordelik vir die aanbieding van verskeie voorgraadse en nagraadse modules en neem deel aan die voortdurende proses van programtransformasie. Sy beduidende bydrae tot navorsing is in 2018 en 2019 bekroon met die Toekenning vir Navorsingsuitnemendheid van die Universiteit Stellenbosch. As departementele voorsitter het hy sedert 2010 studente van verskillende agtergronde gementor, om te help met die spesifieke akademiese en persoonlike uitdagings wat hulle in die gesig staar, en om te leer uit hulle onderskeie agtergronde en kulture. Hy het 'n passie vir mentorskap en lei verskeie jong kollegas, insluitende kollegas uit onderverteengroepes.

Prof Gideon van Zijl has played a significant leadership role over the last 20 years in the Department of Civil Engineering. He has been responsible for the presentation of several undergraduate and postgraduate modules and participates in the continuous process of programme transformation. His significant contribution to research was rewarded with the Stellenbosch University Research Excellence Award in 2018 and 2019. As chair of the department, he has mentored students from various backgrounds since 2010, to assist with the particular academic and personal challenges they face, and to learn from their respective backgrounds and cultures. He has a passion for mentorship and guides several young colleagues, including those from underrepresented groups.

Fisiese Toekennings
(in-persoon)

Fakulteit Ingenieurswese

18:00 – Groep 2

Physical Awards
(face-to-face)

Faculty of Engineering

18:00 – Group 2

PROGRAM

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DOKTORALE KWALIFIKASIES | DOCTORAL QUALIFICATIONS

DOKTOR IN DIE WYSBEGEERTE DOCTOR OF PHILOSOPHY

DE KOCK, Imke Hanlu (Industrial Engineering)

Managing technology within the context of sustainability transitions: An integrated framework

The need to consider the management of technology within the context of sustainability transitions is evident. However, the required integration between sustainability transitions and technology management is neither adequately understood in practice, nor addressed in literature. The research aim was therefore twofold: to provide a premise for the integration between technology management and sustainability transitions, and to provide the basis for the definition and identification of technology management considerations within the context of sustainability transitions. The developed ITMST framework and ITMST methodology addressed the stated aim and were validated through the application thereof to the electricity transition of South Africa.

Supervisor: Prof AC Brent
Co-supervisor: Prof SS Grobbelaar

FOUCHÉ, Elaine (Industrial Engineering)

Development of a participatory planning approach for energy sustainability at a local government level

The research aim was to develop a participatory planning approach to deal with the complex problem of climate change and energy security at a local government level. The developed approach, namely Explore, Design and Act for Sustainability (in short EDAS), stems from multi-disciplinary fields such as soft operational research and collaborative governance. The EDAS approach was successfully applied and tested in a case study with Hessequa Municipality in the Western Cape province of South Africa. EDAS provides a continuous cycle of sharing ideas and knowledge, developing sustainable strategies, establishing stakeholder support and collaboration, and agreeing on action plans.

Supervisor: Prof AC Brent
Co-supervisor: Ms IH de Kock

GAKINGO, Godfrey Kabungo (Chemical Engineering)

Oxygen transfer in cell-free and simulated alkane-based bioprocesses: Computational fluid dynamics (CFD) simulations and predictive modelling

Alkane biocatalysis is an industrially relevant means of valorising alkanes. However, oxygen transfer in this process serves as a rate-limiting step that needs to be addressed through appropriate bioreactor design. This study proposes a fundamental approach to bioreactor design based on the development of predictive models of oxygen transfer using computational fluid dynamics. The models were developed for a three-phase cell-free system and a four-phase system with non-viable cells. Furthermore, the models were validated against experimental data, thereby illustrating the potential of the proposed methodology. This study also reveals greater insight into the hydrodynamics and oxygen transfer of alkane-based stirred reactors.

Supervisor: Prof TM Louw
Co-supervisor: Prof KG Clarke

GUWA, Oyama (Chemical Engineering)

Optimisation of nutrient input to integrated aquaponics systems through mineral supplementation by way of fish feed additives

An optimum source and inclusion level of iron and potassium from fish feed additives for optimising the production of African catfish were determined while simultaneously evaluating the excretion of effluent that can be used to optimally grow plants in aquaponics systems. It was concluded that the addition of minerals through fish feed additives can reduce or even eliminate the need to supplement plants with nutrients in the form of nutrient solutions. The improvement of plant growth through dietary feed additives of fish in aquaponics systems can improve the efficiency of integrated aquaponics production systems.

Supervisor: Prof NJ Goosen
Co-supervisor: Prof KG Clarke

KAZMAIER, Jacqueline (Industrial Engineering)

A framework for evaluating unstructured text data using sentiment analysis

The study of opinion has become a necessity in modern industry. Due to the vastness of such data, however, manual approaches towards achieving this are no longer viable. This situation has given rise to the field of sentiment analysis – the computational study of people's opinions, attitudes and emotions. In this study a generic framework for sentiment analysis is proposed, facilitating a robust model development process and a deep, versatile analysis of model results by utilising a data-mining approach. The framework can aid organisations in successfully leveraging unstructured, opinion-bearing data in combination with structured data sources to inform decision making.

Supervisor: Prof JH van Vuuren

MUGWAGWA, Lindleen Runyararo (Chemical Engineering)

Fractionation of agro-waste to produce biopolymers and bioactive compounds for active food packaging

The study focused on developing and optimising process conditions for fractionating wheat straw and mango waste into biopolymers and bioactive compounds. The integration of these by-products into biocomposite films comparable to low-density polyethylene (LDPE) films for active food packaging was also studied. Important correlations and process routes were identified for recovering hemicellulose, pectin, polyphenols and anthocyanins with properties suitable for formulating active packaging films and temperature-time indicators. Hemicellulose-based films with mechanical properties and hydrophobicity similar to LDPE films were developed. Biocomposite films containing hemicellulose, pectin, nanocellulose and polyphenols were capable of releasing encapsulated antioxidants into food at a faster rate than LDPE films.

Supervisor: Dr AFA Chimphango

SWART, Lukas Johannes (Chemical Engineering)

*Techno-economic analysis of the valorisation of brewers' spent grains:
Production of xylitol and xylo-oligosaccharides*

By utilising evolutionary principles to develop a numerical tool for designing soft pneumatic actuators, it is possible to accelerate the design cycle for a variety of applications. Nonlinear finite element models made structural predictions, which show a close correlation to manufactured prototype actuators. Further, by including a bilinear material as a strain-limiting layer, a bimodal behaviour could be included while using a linear pressure input. It therefore becomes possible to manipulate the bending direction of the actuator by varying only the internal pressure. This study is a meaningful step forward in the automated design of soft intelligent structures.

Supervisor: Prof JF Görgens

Co-supervisor: Dr E van Rensburg

VAN ZYL, Ghiete (Industrial Engineering)

Graph-based semi-supervised learning for the detection of potential disease-causing genes

In bioinformatics, disease gene classification is primarily based on the principle that the gene-product network neighbour of a disease gene is likely to cause the same or a similar disease. A novel computational approach to the disease gene identification problem is proposed in this study. This methodological framework utilised the aforementioned principle and exploited both the modular nature of biological networks and the abundance of available data related to the similarities between genes within a semi-supervised machine learning paradigm. During the study, 100 novel putative disease genes were identified and earmarked for further laboratory analysis.

Supervisor: Prof JH van Vuuren

KANSELIERSTOEKENNING | CHANCELLOR'S AWARD

Afdeling van die Rektor | Division of the Rector

ARNOLD SCHOONWINKEL

Arnold Schoonwinkel se loopbaan van 35 jaar by US word gekenmerk deur uitnemendheid. Oor hierdie tyd het hy die Universiteit in uiteenlopende hoedanighede gedien – as akademikus, navorser, navorsingsbestuurder, departementshoof, mededekaan, dekaan vir twee termyne, en Viserektor: Leer en Onderrig, ook vir twee termyne. Onder sy leiding het die Fakulteit Ingenieurswese beduidend uitgebrei in sowel studentegetalle en sy sterk navorsingsaanbod, wat onder meer tot die vestiging van 'n afwentelmaatskappy soos SunSpace gelei het. SunSpace op sy beurt het die Sumbandila-satelliet gelanseer. Hy was hoof van die Telkom Sentrum van Uitnemendheid in Satellietkommunikasie, Spraak- en Beeldprosessering en was verantwoordelik vir die vestiging van die MTN/SUNSTEP Skole Tegnologie-opvoedingsprogram met sy uitsonderlike sosiale impak. Prof Schoonwinkel het ook verskeie pioniersinisiatiewe op die terrein van Leer- en Onderrigbevordering gelei. Die vernaamste hiervan is die US Raad se IKT-projek – 'n investering van R218 miljoen in IKT van 2014-2018.

Arnold Schoonwinkel has made a tremendous impact on SU. During his illustrious career, spanning 35 years, he served the University as an academic, a researcher and a research manager, a departmental head, an associate dean, a dean for two terms and finally, the Vice-Rector: Learning and Teaching for two terms. Under his leadership, the Faculty of Engineering expanded considerably in terms of student numbers and its strong research offering, including the creation of spinout companies, such as SunSpace, which led to the Sumbandila Satellite. He was head of the Telkom Centre of Excellence in Satellite Communications, Speech and Image Processing and launched the MTN/SUNSTEP Schools Technology Education Programme with its significant social impact. Prof Schoonwinkel also led a number of pioneering initiatives on the terrain of Learning and Teaching Advancement. Foremost among these is the ICT Council project – an investment of R218 million in ICT from 2014-2018.

*Virtuele Toekennings:
Nagraadse en Voorgraadse
Kwalifikasies*

Fakulteite

- Geneeskunde en Gesondheidswetenskappe
 - Ingenieurswese
-

*Virtual Awards:
Postgraduate and Undergraduate
Qualifications*

Faculties

- Medicine and Health Sciences
- Engineering



Virtuele Toekennings

Fakulteit Geneeskunde en
Gesondheidswetenskappe

Virtual Awards

Faculty of Medicine and
Health Sciences

Fakulteit Geneeskunde en Gesondheidswetenskappe

Faculty of Medicine and Health Sciences

Magister in die Natuurwetenskappe **Master of Science**

Delaney, Kayla Eileen (Medical Virology) (*cum laude*)
Diale, Boitshoko Pheny (Nuclear Medicine)
Ehlers, Ashley (Molecular Biology) (*cum laude*)
Hamman, Bianca Leigh (Medical Microbiology) (*cum laude*)
Kleynhans, Janke (Nuclear Medicine) (*cum laude*)
Lathe, Stephanie Justine (Anatomy) (*cum laude*)
Mbay, Blanchard Iyemosolo (Clinical Epidemiology)
Ndou, Sedzani (Molecular Biology) (*cum laude*)
Nghah, Veranyuy Dzeaye (Clinical Epidemiology) (*cum laude*)
Nkonyane, Tshepiso Ruth (Molecular Biology)
Phoba, Ndedi Mvubu (Clinical Epidemiology)
Ronge, Lena (Clinical Epidemiology) (*cum laude*)
Smith, Katrin Mary Geneve (Molecular Biology) (*cum laude*)
Tiya, Luthando Lukhanyo (Pharmacology)

Magister in die Natuurwetenskappe in Sport- en Oefeningeneeskunde **Master of Science in Sport and Exercise Medicine**

Alexander, Laine Ardae John (Sport and Exercise Medicine) (*cum laude*)
Burger, James Willoughby (Sport and Exercise Medicine)
Van Tonder, Riaan (Sport and Exercise Medicine) (*cum laude*)

Magister in die Natuurwetenskappe in Sportwetenskap **Master of Science in Sport Science**

Bergh, Oloff Charles Wessel (*cum laude*)
Breet, Marise Carina (*cum laude*)
Haywood, Gemma
Horn, Michael Fredrick (*cum laude*)
Moller, Johanna Christina (*cum laude*)
Pretorius, Johanna Mercia (*cum laude*)

Magister in die Geneeskunde **Master of Medicine**

Ablort-Morgan, Kim Louise (Anaesthesiology)
Aboshakwa, Adel (Internal Medicine)
Adu-Gyamfi, Rossi (Surgery)
Aryao, Ruth (Paediatrics)
Basson, Albertus Willem (Ophthalmology)
Benbarka, Samia (Internal Medicine)
Beviss-Challinor, Kenneth Brodrick (Radiological Diagnosis)
Bhikoo, Raisa (Internal Medicine)
Bruce-Brand, Cassandra (Anatomical Pathology) (*cum laude*)
Budge, Melissa Barbara (Surgery)
Cerfontein, Wardah (Haematological Pathology)
De Swardt, Mathew Peter (Anaesthesiology)

Domingo, Abdurragmaan (Anaesthesiology)
Doubell, Jacques John (Internal Medicine) (*cum laude*)
Drude, Carmen (Anaesthesiology)
Du Plessis, Elana Celeste (Internal Medicine)
Eksteen, Constant (Radiological Diagnosis)
Esmail, Ahmed (Internal Medicine)
Franken, Herman Casper (Psychiatry)
Ganzevoort, Johan (Family Medicine)
Gwaunza, Lenon Tonderayi (Neurology) (*cum laude*)
Hamunyela, Kondjela Sara (Paediatric Surgery)
Harrington, Bradley Mcconville (Neurosurgery) (*cum laude*)
Itana, Justina Ndapewoshali (Paediatrics)
Jacobs, Andrea Nicole (Anaesthesiology)
Jario, Michael Aaron (Neurosurgery)
Kaawan, Amani Abdelgadir Omer (Internal Medicine)
Kamat, Ameya Shrikant (Neurosurgery) (*cum laude*)
Liebenberg, Jurgens Jacobus (Internal Medicine) (*cum laude*)
Lotz, Theresia (Anaesthesiology)
Malan, Leon (Radiological Diagnosis)
Mapala, Lydia Musonda Nkanizao (Paediatrics)
Mbewe, Chitani (Radiological Diagnosis)
Mia, Mohamed Imraan (Surgery)
Mohamed Ebrahim, Mohamedraza Akbar (Paediatrics)
Morkel, Richard Wade (Orthopaedic Surgery)
Mouton, Hendrik Pierre (Surgery)
Mulenga, Kasonde (Surgery)
Musiime, Grace Mirembe (Paediatrics)
Naidu, Kireshee (Neurology) (*cum laude*)
Naude, Camilla Engela (Radiological Diagnosis)
Panday, Amaan Shabier (Internal Medicine)
Paruk, Mahomed Esmail (Psychiatry)
Paulsen, Chané (Obstetrics and Gynaecology)
Payne, Anthea Joleen (Psychiatry)
Peterson, Dale Christopher (Internal Medicine)
Rautenbach, Enid Alwina (Ophthalmology) (*cum laude*)
Roos, Charlotte (Emergency Medicine)
Schoeman, Doreen (Anaesthesiology)
Smit, Liani (Medical Genetics) (*cum laude*)
Van der Merwe, Tian Ackerman (Obstetrics and Gynaecology)
Vlok, Susanna Catherina (Radiological Diagnosis)
Williams, Andrew Anthony Peter (Family Medicine)
Williams, Doresha Liza-Marie (Family Medicine)
Wood-Pottle, Leigh-Ann (Paediatrics)
Zbaida, Reda Ahmed Musa (Paediatric Surgery)

Magister in Publieke Gesondheid en Voeding **Master of Public Health and Nutrition**

Mangena, Sibongile (Public Health Nutrition)

Magister in Patologie **Master of Pathology**

Dube, Welile Vumile (Anatomical Pathology)

Magister in die Wysbegeerte
Master of Philosophy

Chhabra, Namrata (Health Professions Education)
Chideme-Chinovhiringa, Karen Clara (Health Systems and Services Research)
Cloete, Colleen Carol Anne (Health Professions Education)
Cornelissen, Estelle Theresa (Rheumatology)
Katangwe, Thembi Janis (Paediatric Neurology)
Odukoya, Lateef Adebisi (Cancer Science) (*cum laude*)
Slabbert, Pieter Johannes Adriaan (Nephrology)
Van der Merwe, Pieter Du Toit (Infectious Diseases)

Magister in die Verpleegkunde
Master of Nursing

Nuumbosho, Helena Taamba

Magister in Voeding
Master of Nutrition

Jacobson, Deborah (Nutritional Sciences)

Magister in Fisioterapie
Master of Physiotherapy

Jooste, Liesl
Van Zyl, Chanel (*cum laude*)

Magister in Spraak-Taalterapie
Master of Speech-Language Therapy

Lydall, Martha

Honneurs-Baccalaureus in die Natuurwetenskappe
Bachelor of Science Honours

Alberts, Rencia (Molecular Biology) (*cum laude*)
Brown, Keaghan (Molecular Biology)
Carolus, Dee-Lynn Chantell (Physiology (Medical)) (*cum laude*)
Cloete, Stephanie Simone (Medical Microbiology) (*cum laude*)
Elijah, Skyla Sarah (Physiology (Medical))
Govender, Saiuree (Physiology (Medical))
Hamza, Malikhah (Physiology (Medical))
Howard, Emma (Physiology (Medical)) (*cum laude*)
lipumbu, Eтуhole Nuusiku (Medical Microbiology)
Kotze, Anri (Physiology (Medical))
Lamprecht, Daniella (Anatomy) (*cum laude*)
Leeke, Robyn Anita (Physiology (Medical))
Leite, Jenna (Physiology (Medical)) (*cum laude*)
Lochner, Ruan Dawid (Morphological Science) (*cum laude*)
Lunn-Collier, Robyn (Anatomy) (*cum laude*)
Mac Dermott, Kerryn D (Anatomy) (*cum laude*)
Marais, Chantelle (Anatomy) (*cum laude*)
Martin, Lauren Courtney (Human Genetics) (*cum laude*)
Mathee, Raadhiyah (Molecular Biology) (*cum laude*)

Motha, Khethiwe Joice (Pharmacology)
Oosthuizen, Amberly (Physiology (Medical)) (*cum laude*)
Oosthuizen, Micke (Reproductive Biology (biochemistry)) (*cum laude*)
Orgovanyi, Emily (Physiology (Medical)) (*cum laude*)
Payne, Carmen-Marie (Physiology (Medical)) (*cum laude*)
Pfeiffer, Nadine Diana (Reproductive Biology (Biochemistry)) (*cum laude*)
Sanchez, Sebastian (Physiology (Medical)) (*cum laude*)
Sims-Handcock, Jethro Dylan (Pharmacology) (*cum laude*)
Slabbert, Caitlyn Victoria (Medical Microbiology) (*cum laude*)
Steyl, Chrystal (Human Genetics) (*cum laude*)
Sutherland, Andrew David (Medical Virology) (*cum laude*)
Vermeulen, Annecke (Molecular Biology) (*cum laude*)
Vermeulen, Sean Amanda (Molecular Biology) (*cum laude*)
Williams, Cassidy Portia (Physiology (Medical)) (*cum laude*)

Honneurs-Baccalaureus in die Natuurwetenskappe
in Sportwetenskap
Bachelor of Science Honours in Sport Science

Aikman, Kacie Katherine Luisa (Performance Sport)
Benson, Sven Ronald (Performance Sport)
Boomgaard, Moegamad Deen (Performance Sport)
Candy, Savannah Leigh (Performance Sport)
Clothier, Julia Martina (Kinder Kinetics) (*cum laude*)
Filmlalter, Lane (Kinder Kinetics)
Fourie, Imke (Performance Sport)
Heynes, Michaela Lee (Performance Sport)
Hoole, Matthew Cotterell (Performance Sport)
Hounsell, Emma Kate (Kinder Kinetics) (*cum laude*)
Jacobs, Van Zyl (Performance Sport)
Marx, Joné (Kinder Kinetics)
Myburgh, Joshua Daniel (Performance Sport)
Peek, Cana Lee Durant (Performance Sport)
Pretorius, Nicole (Performance Sport)
Pretorius, Sheray (Kinder Kinetics) (*cum laude*)
Raymer, Joshua Peter (Performance Sport)
Rodgers, Aneesha (Performance Sport)
Schlewing, Jannick (Performance Sport) (*cum laude*)
Smith, Matthew Tyler (Performance Sport)
Swart, Jana (Performance Sport)
Teubes, Hesmari (Performance Sport)
Ungerer, Diané (Kinder Kinetics) (*cum laude*)
Van Biljon, Courtney Lee (Kinder Kinetics)
Van den Berg, Melissa (Performance Sport)
Van der Westhuizen, Izelle (Performance Sport) (*cum laude*)
Van Dyk, Angela Christine (Performance Sport)
Van Staden, Yvonne (Kinder Kinetics)
Williams, Amy Anne (Kinder Kinetics)
Wolfaardt, Rian Fritz (Performance Sport)
Zeier, Johann (Performance Sport)

**Honneurs-Baccalaureus in die Natuurwetenskappe
in Biokinetika**
Bachelor of Science Honours in Biokinetics

Andrag, Lizanne (Biokinetics)
Biggs, Grace Amy Jesse (Biokinetics) (*cum laude*)
Buys, Emma Paige (Biokinetics) (*cum laude*)
De Beer, Fritz Du Plessis (Biokinetics)
De Wet, Jean (Biokinetics) (*cum laude*)
Engelbrecht, Elke Hanlie (Biokinetics)
Gillis, Ashleigh Elizabeth (Biokinetics)
Hertzberger, Paula Ann (Biokinetics)
Jullien, Donna Phyllis (Biokinetics)
Kotzé, Chlöe (Biokinetics)
Marais, Kyla (Biokinetics) (*cum laude*)
Muirhead, Teal Demi (Biokinetics)
Smith, Ivana (Biokinetics)
Van Wyk, Keanan (Biokinetics)
White, Hadia Rhakima (Biokinetics)
Zwiegelaar, Su-Ané (Biokinetics) (*cum laude*)

Nagraadse Diploma in Verslawingsorg
Postgraduate Diploma in Addiction Care

Best, Helene
Goeieman, Daniela Sefora
Jantjies, Anushka (*cum laude*)
Mbandazayo, Monwabisi
Spinas, Brogan (*cum laude*)
Van der Westhuizen, Bronwyn Lee-Ann

Nagraadse Diploma in Verpleegkunde
Postgraduate Diploma in Nursing

Aploon, Gwendoline Whilmay (Primary Health Care)
Baki, Mthobeli (Primary Health Care)
Olkers, Catherine Denise (Primary Health Care)
Vicks, Lumka Muriel (Advanced Obstetrical and
Neonatological Nursing)

Nagraadse Diploma in Huisartskunde
Postgraduate Diploma in Family Medicine

Makolo, Huguette Lusamba

**Nagraadse Diploma in Volwasse-Kritiekesorg-
Verpleegkunde**
**Postgraduate Diploma in Adult Critical Care
Nursing**

Hanana, Monwabisi
Matembisa, Msingathi
Ndwe Magengelele, Ntombekhaya

**Nagraadse Diploma in Gevorderde Verloskunde
en Neonatale Verpleegkunde**
**Postgraduate Diploma in Advanced Midwifery and
Neonatal Nursing**

Louw, Stephanie

Nagraadse Diploma in Operasiesaal-verpleegkunde
**Postgraduate Diploma in Operating Theatre
Nursing**

Andrews, Rejani (*cum laude*)
Lourens, Magdalena Susanna
Prins, Ellen Joy

**Nagraadse Diploma in Gevorderde Psigatriese
Verpleegkunde**
**Postgraduate Diploma in Advanced Psychiatric
Nursing**

Heuvel, Marlene
Kika, Dorothy Elizabeth Marlene
Maziko, Thandokazi Signoria

Nagraadse Diploma in Verpleegonderwys
Postgraduate Diploma in Nursing Education

Basson, Monique (*cum laude*)
Bonaparte, Cellmodine Ingrid
Grobbelaar, Lida
Gwanya, Siyamthanda
Hendricks, Sergio Lester
Huchu, Grace
Jacobs, Colleen Delia
Johannes, Beata Tangi Etuna
Jooste, Elebine Petro
Kwakep Epse Semegni, Chanceline
Lebitsa, Atang
Mafaya, Lindelwa Gladys
Mangi, Nozuko Glenrose
Martin, Sedeeka
Matsie, Dalton Sekakule
Mostert, Michele (*cum laude*)
November, Carmen
Peens, Blanche
Roets, Jacoba Helene (*cum laude*)
Rumbu, Tembelani Sankara
Smith, Jacques Lawrence
Thibinyane, Nteboheleng
Van Toorn, Rykie
Van Zyl, Christina Jacoba
Vrieslaar, Sharon

**Nagraadse Diploma in Verplegings- en
Gesondheidsdiensbestuur**
**Postgraduate Diploma in Nursing and Health
Service Management**

Adam, Xoliswa Patricia
Baartman, Rozetta Berenice
Balarana, Ntombozuko Nondwe
Beyers, Nicolette Elrine
Britz, Sharon Louise
Brown, Nicolene
Christians, Oriol Bianca

Colane, Segomotsi Eunice
Daniels, Carmen
Davids, Natasha Kay
Dlamini, Nonkqubela
Dlamini, Ntombifuthi
Fredericks, Rochelle Marlene
Hammers, Evette Queen
Hendricks, Chevonne Talisha
Hendricks, Elizabeth Ruth
Jacobs, Magdalene Theresa
Jonck, Charon (*cum laude*)
King, Wynette (*cum laude*)
Kitching, Stefanie Petro
Kloppers, Ghwendolene Astrad
Konnicht, Gradville
Kwani, Silindokuhle
Layman, Carole Christine
Leeuwenskieter, Theresa Charlotte
Louw, Celeste (*cum laude*)
Magamle, Andile Innocent
Malan, Celente
Mangweni, Judith Zolisa
Marie Modeste, Regis Rugira (*cum laude*)
Marloney, Marloney Leroy
Marsala, Ursula Wilana
Mase, Nobuntu
Mence, Nomakhaya Patricia
Mokori, Kapoko Josiah
Motatinyane, Setlabotjha Julia
Mtseu, Zoleka
Myburgh, Lowellna Izilna (*cum laude*)
Ngonyolo, Ntombovuyo
Nomangola, Wandile
Nyeli, Ntombikho
Nyokana, Nangamso
Potgieter, Elizabeth
Rolomane, Elmanique Noluvuyo (*cum laude*)
Roos, Desire
Shilowa, Beauty
Skeen, Corné
Stollenkamp, Thabita
Swarts, Sue-Leen Chanelle
Theart, Rozanne
Vakele, Lindiwe
Valentine, Lydia Roxanne (*cum laude*)
Verwey, Oriana
Wyngaard, Trevor Christopher William (*cum laude*)

**Nagraadse Diploma in Gestremdeheid- en
Rehabilitasiestudies
Postgraduate Diploma in Disability and
Rehabilitation Studies**

Baloyi, Mphuzi Leonard
Mathebula, Flora Mohlago (*cum laude*)
Newhoudt-Arendse, Beulah Berenice
Oyoo, Oyenga George Primon
Smith, Jean-Charl (*cum laude*)

**Nagraadse Diploma in Geneesmiddelontwikkeling
Postgraduate Diploma in Medicines Development**

Cele, Alma-Nalisha Anele (*cum laude*)
Chimhina, Herbert Elias
Danckwerts, Maria Irene (*cum laude*)
De Beer, Marco (*cum laude*)
Harker, Taryn Simone (*cum laude*)
Ledwaba, Titus Arthur
Mataboge, Keabetswe Samantha
Mdladla, Nkululeko Sicelo (*cum laude*)
Mhango, Twambilire (*cum laude*)
Mudekanye, Philisile Nozizwe Ntokozo
Ndoror, Fungai
Ngwepe, Lesetja Kgantshi Selby (*cum laude*)
Nkwanyana, Sabelo Siyabonga
Solwa, Asif Ahmed (*cum laude*)
Thethani, Bukho

**Baccalaureus in die Geneeskunde en Baccalaureus
in die Snykunde
Bachelor of Medicine and Bachelor of Surgery**

Abrahams, Aqeelah
Addinall, Mogammad Raythaan
Adeolu, Alice Iyabo Alatede
Adonis, Tamryn Jeneke
Africa, Brad
Ahmed, Arshad Ali
Akoojee, Shaakirah
Allie, Mogamad Fay-Yaadh
Allie, Sameenah
Allie, Thakiera
Amod, Mischka
Anie, Samantha Jayne
Ashtiker, Nabeel
Balie, Christopher Ronald
Banderker, Mohammed Cassiem
Bantham, Erica Colette
Bassardien, Azhar
Bell, Zara
Berling, Justin Robert Baron
Blignaut, Carli Andree
Blomerus, Dala
Boboko, Nthabeleng Tumelo
Boshoff, Rudolf Frederik
Botha, Gerrit Handré
Botto, Bradley James
Brand, Theresa
Bray, Saadiqa
Breytenbach, Mardi
Brooks, Abri
Cindi, Khanyaqhawe Hope
Cloete, Kara Andria
Coltman, Lisa-Joan
Combrink, Lisa (*cum laude*)
Conco, Palesa Siphesihle Nomhle
Dada, Taariq Ahmed

Dalvi, Farheen
Dalvie, Nadia
Dalvie, Riaz Ahmed
Daniels, Natasche Carize
Datay, Mujtaba
Dawood, Azhar Saleem
De Bod, Rosie Mathilda
De La Bat, Renske (*cum laude*)
De Villiers, Eben
De Wet, Carel Jacobus
Ding, Limay
Dlamini, Ntombiyoxolo Makhoza Malunga
Dlamini, Zamasibalukhulu Nothando Sibongakonke
Dollman, Stephanie Leigh
Du Pisanie, Louiso Almero
Du Plessis, Lara (*cum laude*)
Du Toit, Inge (*cum laude*)
Du Toit, Lilene (*cum laude*)
Dzakwa, Babalwa
Earl, Elizabeth Jane (*cum laude*)
Ebrahim, Mish'al
Ebrahim, Muzaffer Sayed
Edwards, Jameelah
Eksteen, Johanna Magdalena (*cum laude*)
Erasmus, Nina Christine (*cum laude*)
Esau, Mogamad Ubaid
Essop, Ziyaad Ahmad
Faesen, Simone
Fenton, Nicole Mari
Fick, Kerike Renette
Filippi, Miriam Maria (*cum laude*)
Fourie, Ewan Emile
Franckeiss, Brandon Mark (*cum laude*)
Franzsen, Anja (*cum laude*)
Gani, Aliya Habibti
Geldenhuys, Elsje-Marie
Geldenhuys, Janke
Gelebe, Phophi Muraga
Goliath, Ashleigh Allison
Goosein, Jiyaad
Gough, Michaela Claire
Grobler, Pierre Jacob
Groenewald, Carli (*cum laude*)
Haffejee, Laila
Henning, Marnice
Hlongwane, Camellia Thando
Hlongwane, Kukhanya-Ripfumelo
Hlungwane, Sagwati
Hoenck, Helen Ria (*cum laude*)
Isaacs, Fadwah
Ismail, Zaahid Ahmad
Istain, Taskia Viandré
Jackson, Kelly
Jakoet, Yusuf
Jumat, Jacolene Nicolette
Kachoko, John Tshilenge
Karbanee, Mariam
Karjiker, Nishaat
Kasai, Hideaki Lyle (*cum laude*)
Kentane, Yonela Sanelisiwe
Khan, Shehzaad
Khonzani, Sibongiseni
Klopper, Juandré
Koopman, Taryn Andrea
Korowlay, Ayesha
Kruger, Carla (*cum laude*)
Kumeke, Boitumelo Felicity
Kuppan Luke, Astrid Rebecca
Laing, Olivia Jeanette (*cum laude*)
Lak, Marizanne Zoë
Le Roux, Christine (*cum laude*)
Leibrandt, Anique Erin
Letsoalo, Lethukwenama Zesuliwe
Levendal, Farren Laiken
Llobell, Mudiwa Enrique (*cum laude*)
Losaba, Retlametswe
Lötz, Nicolaas Johannes
Louis, Janine
Lucas, Bianca
Lusweti, Merab Awiti
Luxomo, Abongile
Mahomed, Naadhira Ashraf Dawood
Makaronge, Tintswalo
Makhoba, Nokuthula Thobile
Malherbe, Petrus Jacobus
Maliwa, Andisiwe Lithamsanqa
Marais, Ebeth (*cum laude*)
Markgraaf, Bradwill Rozé
Marshall, Sherylin Leigh
Mashaba, Khensani Precious
Masima, Moratwe Kananelo Nicole
Masinga, Busisiwe Precious
Mathee, Mogammad Tawfeeq
Mathole, Sharon Sanelisiwe
Mayet, Fatimah Zahra
Mayet, Sameera
Mazibuko, Luthando Fortune
Mbambo, Samkelisiwe Jeane
Mbatha, Hlengiwe Noluthando
Mbhele, Lwazi
Mchunu, Thabsile Faith
Mckenna-Hoyle, April Victoria
Mdlalose, Thabani Luyanda
Mdletshe, Lungiswa Nosimilo
Menu, Alex Lehlohonolo
Mgxashe, Yamkela
Mia, Zakiya
Mngoma, Lutho
Mngomezulu, Mbalenhle Ayanda Joy
Moatshe, Bontle Rosina
Moeketsane, Rethabile Eugenia
Moerdyk, Michelle
Mohamed, Ebrahim
Mohedien, Rizia
Mokgethi, Sakhile Nthabiseng
Monyebodi, Mashadi Pheladi

Moodley, Delicia Ivanna
Moola, Faheema
Moopen, Sriya
Moos, Tawfeeq
Moreira, Daniel
Morris, Tayden
Morrison, Aimee Scott
Mothusi, Kealeboga Precious
Mowzer, Adam
Mpisi, Kurtis Anthony
Mponda, Nontokoza Ashleigh
Muller, Cornelis Johannes
Müller, Shannon Samantha
Mvunyiswa, Masithembe
Myburgh, Daniella (*cum laude*)
Naidoo, Shashtra
Naidu, Shaylin Malcolm
Nana, Nina
Napoleon, Lana Sarah
Narotam, Alisha
Ndongeni, Thembani
Nel, Janca (*cum laude*)
Nell, Christiaan Marais
Ngidi, Siphivekahle Brenone
Nkabinde, Sami Samkelisiwe Michelle
Ntsoane, Pearl Moroshadi
Nzama, Nkosinathi Sakhile
O'Shea, Keenan William
Olday, Shoaib
Olowu, Livingpraise
Oosthuizen, Carol
Oosthuizen, Gisela (*cum laude*)
Park, Shin Sung
Parker, Mohammed Zaakir
Paul, Anja
Pearce, Amy Dorothy
Pearson, Gretha (*cum laude*)
Pekeur, Kurt-Lee Tamon
Pennefather, Camilla Jane (*cum laude*)
Petersen, Shawna Francis
Pfeiffer, Michelle Cleo
Prag, Rishika
Ramjan, Naydene Margo
Rasool, Omar
Rawoot, Ebrahim Omar
Rawoot, Farahnaaz
Retief, Ulrich Christiaan
Riley, Jade Joan
Robinson, José Luigi
Rodenbach, Nikita (*cum laude*)
Rodewald, Alex Wilhelm
Roos, Nicolas De Bruin (*cum laude*)
Roux, Giselle
Rylands, Azhar
Sadien, Junayd (*cum laude*)
Salie, Raeesa
Samodien, Na-llah
Samsodien, Mohamed Yaseen

Samuels, Calvin John
Sass, Astrid Lizaan
Scott, Ethan Marc
Selekane, Lee Roy Percy
Shaw, Byron Luewellsen Glen
Shelembe, Noluthando
Siboya, Luthando Cassius
Simeon, Taryn Rachel
Smith, Nicolé Aimee
Smuts, Alexander
Snyman, Jana-Maré
Solanke, Ndumiso Oluwatoyosi Oluwapelumi (*cum laude*)
Stander, Ashleigh Nicole
Stipp, Dehan Petrie
Strong, Jessica
Swart, Anke
Swart, Tamsyn Lara
Tarantal, Megan Elizabeth (*cum laude*)
Thompson, Jarryd Mark (*cum laude*)
Tinkler, Catherine Emma
Titus, Amy Anne
Todd, Carol
Toua, Yolandi
Toyo, Sinethemba
Uys, Lisa
Vakalisa, Nozuko Linikitha
Van der Linden, Herman Hendrik
Van der Merwe, Benjamin Neil (*cum laude*)
Van der Schyff, Laeeqah
Van der Schyff, Nawaaz
Van der Venter, Aelke Schaël
Van der Westhuizen, Suné
Van der Westhuyzen, Abigail Lou-Anne
Van Schalkwyk, Mareli
Van Veyeren, Lisa-Marie
Van Zyl, Anké
Van Zyl, Janine (*cum laude*)
Vawda, Muhammad
Visser, Marais
Ward, Tracy Peter
Weber, Zena
West, Fatiema
Wheeldon, Kayla Victoria
Williams, Franklin
Willis, Amy-Lee
Wiltshire, Teneal
Yen, Samantha
Young, Natasha Thania
Zietsman, Jessica Alexandra
Zulu, Sinenhlanhla Zibusiso

Baccalaureus in Arbeidsterapie
Bachelor of Occupational Therapy

Bless, Ayanda
Bosa, Florence Nalugwa
Botha, Jana Maretha
Bronn, Lize

Brown, Megan
Buchan, Kyla Rae (*cum laude*)
Buys, Clari (*cum laude*)
Clarke, Casey Nicole
Coetzee, Bonnie Jade (*cum laude*)
Conolly, Naomi Beth (*cum laude*)
Cupido, Jacqueline Geraldine Patricia
Elders, Yasmin Vermae
Folly, Akouvi Anna (*cum laude*)
Goldman, Chelsea Debra (*cum laude*)
Gqada, Lwandokazi
Holcroft, Kathleen Sarah
Honiball, Retha-Mari
Hornsby-Stoltz, Stephané Justine Evelyn
Janse van Rensburg, Hanri (*cum laude*)
Julius, Logan Richardene
Kent, Jemma Louise
Kriel, Tanya
Lewis, Tamzin Merlise
Lezar, Kelly Leigh
Louw, Saskia Yvonne (*cum laude*)
Maschaka, Bernelee Julia
Mavimbela, Mncedisi Perfect
Mayet, Naafi'ah
Olla, Tasneem
Pretorius, Kelly
Pretorius, Patricia
Rice, Cayleigh Jane
Roos, Ingrid
Smit, Alexa
Smit, Alicia (*cum laude*)
Stewart, Tasneem Carrin
Titus, Tamlyn Michelle Elretha
Van Wyk, Charnell Caliscinovia
Venter, Wernice (*cum laude*)
Wasserfall, Lize (*cum laude*)
Williams, Ashiqah
Wood, Nina Isabella Fergus

**Baccalaureus in die Natuurwetenskappe in
Fisioterapie**
Bachelor of Science in Physiotherapy

Acker, Jana (*cum laude*)
Bester, Ilana Brenda (*cum laude*)
Beukes, Lara
Bhoolia, Deesha
Bosman, Lynnzé (*cum laude*)
Brand, Raymond Fred
Brönn, Monique
Browsers, Nathalie Mavis Roché
Capes, Danica
Cilliers, Kaylin
Da Silva, Katia Maria
Dalvie, Ra'eesah
Daniels, Chandré Lecretia
De Reuck, Joshua Ricardo
Dewangree, Mateenah

Duncan, Sarah Cameron (*cum laude*)
Ebrahim, Warda
Erasmus, Misha (*cum laude*)
Genis, Anrike
Haroun, Aisha
Heunis, Sjani
Huang, Si Hua Shirley
Janse van Vuuren, Wadia
Kleynhans, Cara
Kuriakose, Angela Acha John
Lategan, Frandene Christa
Lewis, Matthew
Lombaard, Chris-Mari
Marais, Carlien Rensie
McCarthy, Nina
Meyer, Logan
Nair, Priyanka Krishnan
Niehaus, Waldo Heinrich
Olivier, Jeandri
Prins, Gabriela Babette
Saayman, Chrismeri
Scott, Alanna
Shaik, Mujahid
Shih, Ivy Jou-An
Shira, Mogammad Mish-Aal
Simpson, Brad Timothy
Solomons, Caitlin Jamie
Stanford, Damian
Stephan, Wilre
Steyn, Liza Marie
Stoffelse, Shadoney Janene
Strydom, Tiana
Stutchbury, Danielle Joy
Taylor, Michelle
Tonkinson, Megan Bailey
Van der Merwe, Carlé
Van der Walt, Ellen Jane
Van der Westhuizen, Stanzé
Van Niekerk, Petrus Marthinus
Viljoen, Annika (*cum laude*)

**Baccalaureus in die Natuurwetenskappe in
Dieetkunde**
Bachelor of Science in Dietetics

Bosman, Nicomie Michéle
Briedenhann, Elké
Brooke-Alder, Teagan Wood
Burnett, Georgia Kirsten
Chigonga, Naume
De Jager, Charlene
Dhansay, Sitaara
Drake, Kirsten Emma (*cum laude*)
Du Toit, Bea
English, Ridow-Ann Jasmine
Fardella, Angelica
Finiza, Afrika
Karriem, Aasiyah

Koeul, Isabelle Alma (*cum laude*)
Lee, Rebecca Pin Chieh
Lipschitz, Danielle
McCrystal, Emma Claire
Mulder, Nadia (*cum laude*)
Novak, Kaylyn Anstey
Nzama, Lwazi Knowledge
Panzenböck, Isabella
Partridge, Tyler Duncan
Russouw, Jade Una
Smith, Ané
Smith, Kauthar
Sulaiman, Fatima
Swart, Mandie
Terblanche, Alicia Elizabeth
Van der Vinne, Lebertha Andrea
Van der Walt, Liané
Van Niekerk, Kira
Wagener, Marieke
Wainer, Tori

Baccalaureus in Spraak-Taal- en Gehoortherapie
Bachelor of Speech-Language and Hearing
Therapy

August, Bernedine
Brinch, Nichole
Burton, Fatima
Carls, Amy Jessie
Davis, Isabelle Ruth (*cum laude*)
Du Plessis, Reon Dominique
Everson, Estine
Jacobsz, Carli
Jainodien, Zahraa
Jefferies, Jade Billé
Jones, Robyn Gabe
Jooste, Micaela Donnay
Joubert, Hannelize
Karani, Idrees
Kotzé, Annemicke
Kruger, Anja (*cum laude*)
Loubser, Inecke
Maleke, Maleshoane Elizabeth
Malherbe, Wilhelmina Helena Mila
Mathevula, Bongani Trinity
Pegram, Celine Melissa
Seedat, Zeenat
Sonnekus, Heleen Lydia
Steiner, Catherine Elizabeth Frances Pringle
Tolmay, Abigail
Van Dyk, Estelle Annette
Van Wyk, Nicola
Viviers, Anya
Vogel, Annemie
Vorster, Marné



Virtuele Toekennings

Fakulteit Ingenieurswese

Virtual Awards

Faculty of Engineering

Fakulteit Ingenieurswese | Faculty of Engineering

Magister in die Ingenieurswese

Master of Engineering

Augustyn, André Rossouw (Mineral Processing)
Bessinger, Johandré Marthinus Hubert (Civil Engineering) (*cum laude*)
Bhebhe, Meluleki (Industrial Engineering)
Border, Allistair Fraser (Chemical Engineering) (*cum laude*)
Bossau, Jesslyn Cassandra (Mechatronic Engineering) (*cum laude*)
Brown, Matt Campbell (Civil Engineering)
Burger, Este Marié (Electronic Engineering)
Cairncross, Kieran Hillmar (Chemical Engineering) (*cum laude*)
Coetzee, Annelette (Chemical Engineering)
Conradie, Willem Johannes (Mineral Processing) (*cum laude*)
De Waal, Daniel Jacobus (Mechanical Engineering)
Droomer, Marli (Industrial Engineering) (*cum laude*)
Du Preez, Anli (Industrial Engineering)
Dundas-Starr, Murray Richard (Mechanical Engineering)
Durandt, Petrus Gerhardus (Mechanical Engineering) Ebrahim,
Tameez (Electronic Engineering)
Erasmus, Derwalt Johannes (Mechanical Engineering) (*cum laude*)
Ferreira, Lourens Jan (Mechanical Engineering)
Hattingh, Werner Visser (Civil Engineering)
Janse van Vuuren, Renier Johannes (Mechanical Engineering)
Jardine, Tyron Connor (Mechatronic Engineering)
Jooste, Jean-Pierre Daniel (Civil Engineering) (*cum laude*)
Kalima, Solomon Gadiel (Civil Engineering) (*cum laude*)
Kleyn, Emile (Electrical Engineering)
Kohrs, Carl Christoff (Mechanical Engineering)
Kotze, Marko Abraham (Engineering Management) (*cum laude*)
Luthuli, Zamokuhle (Mechanical Engineering)
Marais, Hannelie (Civil Engineering) (*cum laude*)
Marsh, Ralmar Juanita (Engineering Management)
Mazibuko, Philani Innocent (Civil Engineering)
Muller, Hanru (Civil Engineering)
Nel, Delene (Mineral Processing)
Nel, Jason Bradley (Electronic Engineering) (*cum laude*) Nortje,
Aletta Susanna Elizabeth (Electronic Engineering) (*cum laude*)
Portwig, Heinrich (Mechanical Engineering)
Rhoda, Courtney Kaylor (Electronic Engineering)
Roberts, Kyle Owen (Mechanical Engineering) (*cum laude*)
Rossow, Jeandre (Mechanical Engineering)
Sibiya, Simon Muzi (Chemical Engineering)
Sithole, Ntokozo Aphelele (Engineering Management) (*cum laude*)
Smit, Mari-Alet (Mineral Processing) (*cum laude*)
Swart, Marli (Chemical Engineering) (*cum laude*)
Takalani, Rofhiwa Lutendo Edward (Electrical Engineering)
Thompson, Andrew Cameron (Chemical Engineering) Tiamiyu,
Nurayn Adewale (Mechanical Engineering)
Ubbink, Johan Bernard (Electronic Engineering) (*cum laude*) Van
Der Westhuyzen, Stephanus (Civil Engineering) (*cum laude*) Van
Eck, Hano (Mechanical Engineering) (*cum laude*)
Van Niekerk, Jaques (Civil Engineering) (*cum laude*)
Van Zijl, Natali (Mineral Processing) (*cum laude*)
Verburgh, Cornelis Arie (Electronic Engineering)

Viljoen, Ruan Matthys (Electronic Engineering) (*cum laude*)
Wehlitz, Carl-Peter Friedrich Von Moltke (Civil Engineering)
Yala, Suzanne Akoth (Chemical Engineering)

Nagraadse Diploma in die Ingenieurswese Postgraduate Diploma in Engineering

Allie, Sakeena (*cum laude*)
Bedford, Aneeqa
Hanghuwo, Wilhem Shiwana
Neldje, Dingambaye Stephane (*cum laude*)
Shidhika, Fenni Magano Tweetheni
Shipena, Hilka Gamena
Van Wyk, Jamie Kate Danielle (*cum laude*)
Wilson, Morgan Parnell

Baccalaureus in die Ingenieurswese Bachelor of Engineering

Abrey, James Otto Shaw (Civil)
Ackermann, Christiaan Pieter (Electrical and Electronic)
Adams, Kayleen (Chemical)
Adams, Logan Charl (Civil)
Afeltra, Massimiliano Francesco (Mechanical)
Alberts, Selien (Mechatronics)
Allie, Abdul-Qayyoom (Mechatronics)
Allsopp, Devon Jonathan (Civil)
Alvarez, Sarah Michelle (Chemical)
Arnold, Nicholas James (Mechatronics)
Astheimer, Giorgia Hannah (Mechanical)
Augustyn, Rainer (Mechanical)
Avenant, Jason (Electrical and Electronic)
Baardman, Muche Dunica (Civil)
Baas, Matthew Brandon (Electrical and Electronic) (*cum laude*)
Bachmann, Karl-Heinz (Electrical and Electronic)
Baker, Cameron Peter (Mechanical)
Ballantine, Ryan Graham (Electrical and Electronic)
Banks, Daniel Marc (Electrical and Electronic) (*cum laude*)
Barends, Umr (Electrical and Electronic)
Barnard, Carli (Mechatronics)
Barnard, Nico (Civil)
Baziruwaha, Jean Claude (Electrical and Electronic)
Bedford, Siraaj (Electrical and Electronic)
Begg, Ryan Alexander (Mechanical)
Bekker, Emmarentia Lydia (Mechatronics)
Bekker, Gretchen (Industrial Engineering)
Bekker, Marcella Gabriella (Chemical)
Berry, Cole Grant (Mechatronics)
Bester, Marthinus Johannes (Mechatronics)
Beukes, Stanley David (Electrical and Electronic)
Biggs, David Robert (Mechatronics)
Birmie, Brett William (Mechatronics)
Bosch, Jacob Rudolph (Industrial)
Boshoff, Gideon Jan (Electrical and Electronic) (*cum laude*)
Botes, Abraham (Electrical and Electronic)
Botes, Daniel (Civil)
Botha, Gabriela (Mechanical)
Botha, Lizane Betsie (Electrical and Electronic)

Breetzke, Candice (Chemical) (*cum laude*)
 Brewis, Almo (Civil)
 Brewis, Michael Alexander (Electrical and Electronic)
 Brink, Marizanne (Industrial)
 Brisley, Jesse Edward (Mechanical)
 Broom, Aaron (Mechatronics)
 Brutus, Jerome Henry (Mechatronics)
 Buhrmann, Sophia Wilhelmine (Mechatronics)
 Bukuru, Joshua Oden (Mechatronics)
 Bukwele, Bhukumuzi Nkosiyabo (Electrical and Electronic)
 Burger, Andries Jacobus Johannes (Electrical and Electronic)
 Burke, Dylan Robert Anthony (Industrial)
 Burke, Michael Faure (Industrial)
 Burt, Jamie (Industrial)
 Buys, Nina (Industrial)
 Cadle, Holly May (Industrial)
 Cairns, Melissa Claire (Civil)
 Charles, Juan Lester (Civil)
 Chellan, Aidan Owen (Mechanical)
 Cillie, Johan Hendrik (Mechanical)
 Cloete, Anzel Sherwin (Electrical and Electronic)
 Coertze, Hadrick Willem (Industrial)
 Coetsee, Christel Isabeau (Industrial)
 Coetzer, Margerethe (Mechatronics)
 Coetzer, Roanné Maria (Industrial) (*cum laude*)
 Conradie, André Stephanus (Electrical and Electronic) (*cum laude*)
 Conradie, Lisa Annrie (Industrial) (*cum laude*)
 Cromhout, Bianca (Industrial)
 Da Silva, Gabriel Santos (Mechatronics)
 Daniels, Jean -Mari (Civil)
 Davids, Jesse (Electrical and Electronic)
 De Beer, Bernhard Henry (Mechatronics)
 De Bruyn, Jeandre (Electrical and Electronic)
 De Freitas, Daniel Michael (Mechatronics)
 De Jager, Phillipus Theunis (Mechanical)
 De Klerk, Devon Shaine (Mechatronics)
 De Kock, Andrew John (Mechatronics)
 De La Bat, Willem Frederik (Electrical and Electronic)
 De Lange, Marli (Chemical)
 De Manielle, Nicolaas Smuts (Chemical)
 De Villiers, Andrew James (Electrical and Electronic) (*cum laude*)
 De Villiers, Paul-Roux Hendrik (Mechanical)
 De Wet, Inge (Industrial)
 De Wet, Rijk Marius (Electrical and Electronic)
 Deel-Smith, Kimberley Kathleen (Electrical and Electronic)
 Defty, Travis Wade (Mechatronics) (*cum laude*)
 Demadema, Shingirirai (Electrical and Electronic)
 Deyzel, Michael Christopher (Electrical and Electronic) (*cum laude*)
 Dos Santos, Rachelle Enslin (Industrial)
 Doubell, Gerhardus Christiaan (Mechatronics)
 Downing, Sean Anthony (Electrical and Electronic)
 Dramat, Tawfeeq (Mechatronics)
 Dreyer, Paul Roux (Electrical and Electronic)
 Du Plessis, Francois (Electrical and Electronic) (*cum laude*)
 Du Plessis, Francois Jacobus (Civil)
 Du Plessis, Regardt (Industrial)
 Du Preez, Tiaan (Industrial Engineering)
 Du Toit, Nina Rachel (Mechanical)
 Du Toit, Paul Francois (Mechanical)
 Duisberg, Carl-Felix (Mechatronics)
 Duminy, Jan-Hendrik Marthinus (Chemical)
 Duvenage, Alec Regan (Mechanical)
 Dysel, Marcel (Electrical and Electronic)
 Ellerbeck, William Vincent (Mechanical)
 Eloff, Kevin Michael (Electrical and Electronic) (*cum laude*)
 Ely, Brandon-Lee Dominique (Civil)
 Erasmus, Adrian (Mechanical)
 Erasmus, Devlon (Electrical and Electronic)
 Erasmus, Keanu Ezra (Mechanical)
 Erasmus, Sheldon (Mechatronics) (*cum laude*)
 Ernst, Rudolf Heinrich (Industrial) (*cum laude*)
 Esmael, Abdullah (Electrical and Electronic)
 Faure, James Philip Kossuth (Industrial)
 Feldman, Lindsey (Mechatronics)
 Fenton, Craig Taylor (Civil)
 Fletcher, Christopher Howard (Mechatronics)
 Folscher, Alida (Electrical and Electronic)
 Fortuin, Reinhardt Onno (Civil)
 Fourie, Armand (Chemical)
 Fourie, Bradley (Electrical and Electronic)
 Fourie, Dian Johannes Lourens (Mechatronics) (*cum laude*)
 Frost, Geoffrey Todd (Electrical and Electronic) (*cum laude*)
 Frost, Jonathan Anthony (Electrical and Electronic)
 Gammie, Kirsten (Industrial)
 Ganzevoort, Reinard Christiaan (Industrial)
 Gasetlolwe, Potlako Poloko (Mechanical)
 Georgiou, Michelle Eve (Industrial)
 Gerber, Ian Paul (Electrical and Electronic) (*cum laude*)
 Gerber, Jénine (Industrial)
 Gertse, Simone (Civil)
 Gilbert, Evan (Electrical and Electronic)
 Goosen, Daniel Johannes (Civil)
 Goosen, Philip (Electrical and Electronic)
 Gouws, Mirelle Rene (Chemical)
 Govender, Michaela (Industrial)
 Govender, Priyanka (Electrical and Electronic)
 Gray, Brandon Barclay (Chemical)
 Grobler, Abraham Frederick (Electrical and Electronic)
 Grobler, Elze (Chemical)
 Grobler, Lindi (Mechatronics)
 Grobler, Saskia (Industrial)
 Groenewald, Monique (Mechatronics)
 Hagemann, Chad Daniel (Civil)
 Hanekom, Derick (Mechanical)
 Hanekom, Johannes Gysbert (Mechanical)
 Hansen, Oliver (Industrial)
 Hansen, Ralf Heiko (Mechatronics) (*cum laude*)
 Harraway, Tricia Margaret (Industrial)
 Harty, Amba (Mechatronics)
 Hartzenberg, Samantha Nicole (Electrical and Electronic)
 Hathorn, Fergus Kenyon (Industrial)
 Hedges, Justin Timothy (Mechanical)
 Hendricks, Jonathan Paul (Electrical and Electronic)
 Hendricks, Lynn-Jay (Industrial Engineering)
 Hepburn, Kevin (Civil)
 Heyns, Migael Gabriel (Civil)
 Higgo, Megan Grace (Industrial)
 Hill, Cayla (Industrial)
 Hohbach, Annika Hilde (Electrical and Electronic)

Humphreys, Ivan Gabriel (Mechanical) (*cum laude*)
Jackson, Mcgregor Cadle (Mechatronics)
Jacobs, Catharina (Industrial)
Jacobs, Gregory Michael (Mechanical)
Jacobs, Johannes Jacobus (Industrial)
Janeke, Grant (Industrial)
Janse Van Rensburg, Johannes Jacobus (Civil)
Janse Van Rensburg, Nina (Mechatronics)
Jassiem, Aiden (Electrical and Electronic)
Jauss, Marco Alexander (Mechatronics) (*cum laude*)
Jayeola, Omofolasewa Hillary (Chemical)
Johannes, Duncan Leslie (Civil)
Joubert, Marco (Electrical and Electronic)
Joubert, Shirley (Chemical)
Kalake, Refiloe (Civil)
Kasper, Kimberly Ann (Electrical and Electronic)
Keech, Amy (Mechanical)
Keirsgieter, Hannah (Chemical)
Kilian, Eduard (Mechanical)
King, Gary Richard (Electrical and Electronic)
King, Jacobus Coenraad Petrus (Industrial) (*cum laude*)
Kingwill, Samuel Eric (Industrial)
Kirsten, Zenobia (Mechanical)
Kleinhans, Ryno (Industrial)
Kleyn, Riaan (Industrial)
Kloppers, Piet Swart (Industrial)
Knipe, Johannes Albertus (Mechatronics)
Kriek, Johan Pieter (Mechanical)
Kriel, Jacobus (Civil)
Krüger, Monique (Industrial)
Kühn, Justin (Civil)
Kuhn, Mattheus Willem Johannes (Industrial)
Kuhn, Sven Michael (Industrial) (*cum laude*)
Laird, Liam Sean (Industrial Engineering)
Laubscher, Heino (Electrical and Electronic)
Laughton, Hannah (Chemical)
Leslie, Megan (Industrial)
Lesofe, Ts'olo Ernest (Chemical)
Lindup, Robin Nicholas (Electrical and Electronic)
Loots, Tiaan Andre (Industrial)
Lotter, Kyle (Electrical and Electronic)
Loubser, Simone Diana (Chemical)
Lourens, Veronica (Chemical)
Louw, Christi (Mechatronics)
Louw, Ulrich Johan (Mechatronics) (*cum laude*)
Lubbe, Neil (Industrial)
Lutz, Thomas Paul (Mechanical)
Maarsingh, Rinus (Industrial)
Macaskill, Justin Alban (Industrial)
Madsen-Leibold, Ansophí (Mechanical)
Maingard De Ville-Es-Offrans, Mikael Keaton (Mechatronics)
Makara, Nyane Patricia (Civil)
Malan, Nina Frances (Industrial)
Marais, Dewald Nico (Chemical)
Maree, Jean-Marc James (Mechatronics)
Maritz, Roelof Frederick (Chemical) (*cum laude*)
Marshall, Cole James (Civil)
Masureik, Gaby (Electrical and Electronic)
Matthee, Righardt (Industrial)
Mazolwana, Khanya (Civil)
McCullough, David Anthony Paul (Electrical and Electronic)
McLoughlin, Damon Patrick (Electrical and Electronic) (*cum laude*)
McMaster, Stuart (Industrial)
Mehta, Nikhil (Mechanical)
Meintjes, Weyers (Industrial)
Mercur, James Winston (Electrical and Electronic)
Meyer, Kara (Electrical and Electronic)
Meyer, Kobus (Electrical and Electronic) (*cum laude*)
Meyer, Tanya (Chemical)
Moelich, Migael (Civil)
Mohapi, Kabeli Irvin (Chemical)
Monty, Michael Keenan (Civil)
Morey, Bianca Jane (Industrial)
Moschides, Tomas Paul (Mechanical) (*cum laude*)
Mouton, Daniello Alberto (Electrical and Electronic)
Mouton, Ettiene (Mechanical)
Muhati, Amy Mmbaya (Chemical)
Mushoriwa, Hapson Nyasha (Civil)
Muthua, Alex Gituanja (Electrical and Electronic) (*cum laude*)
Naidoo, Nadia (Chemical)
Nel, Cameron Luke (Mechanical)
Nel, Coenraad Petrus (Civil)
Nel, Jandre Kobus Barnard (Chemical)
Nel, Justin David (Industrial)
Nel, Marko (Electrical and Electronic)
Nel, Theodore Louis (Mechatronics)
Nelson, Ross Adam (Mechatronics) (*cum laude*)
Ngcongco, Mayibongwe Likhona Gcina (Mechanical)
Nielsen Van Reizig, Anke (Mechanical)
Nieuwoudt, Jan Harmse (Civil)
Nigrini, Leanne (Industrial)
Nogaya, Abulele (Chemical)
Nortje, Alekzander (Civil)
Ntisana, Sinazo (Civil)
Nyirenda, Daniel (Civil)
O'Connor, Declan Rory (Mechanical)
Oberholzer, Johannes Jacobus (Civil)
Onorati, Aidan Massimo (Mechanical)
Oosthuizen, Jandre Daniel (Civil)
Oosthuizen, Johan Hendrik (Electrical and Electronic)
Oosthuizen, Liam Martins (Chemical)
Pauw, Lesne Shae (Chemical)
Payne, Troy (Mechanical)
Perold, Adam James (Mechatronics)
Peters, Nicole (Chemical)
Pheiffer, Clayton James (Mechatronics)
Pienaar, Jayden (Civil)
Piso, Jacqueline (Civil)
Prinsloo, Verne (Chemical)
Raath, Charles John (Civil)
Rabe, Jonathan Clifford (Mechatronics)
Rabie, Christiaan Daniël (Mechanical)
Rackstraw, Emily Jane (Civil)
Rae, John Angus Kevin (Civil)
Ramahapu, Abia Raphael (Civil)
Ramotale, Phora Paul (Electrical and Electronic)
Raubenheimer, Johannes Theunis (Industrial)
Redman, Travis Lee (Mechatronics)
Reuter, Mark Matthias (Electrical and Electronic)
Richards, Nicole (Industrial)
Roelofse, Lohann (Chemical)
Rohde, Malene (Industrial)
Rungan, Preanca (Chemical)
Saloojee, Muhammad Hamza (Mechanical)

Savides, Daniel (Civil)
Scheepers, Monique Leith (Civil)
Schlebusch, Izak David (Chemical)
Schmidt, Gerhardt Carl (Electrical and Electronic)
Schmidt, Karen Louise (Industrial)
Scholtz, Chantel Debbie (Mechanical)
Schulze, Joaquin Scheepers (Electrical and Electronic)
Schulze-Hulbe, Alexander (Chemical)
Sekonyela, Mota (Civil)
Selb, Brigitta (Industrial)
Sequeira, Claudio Henry (Civil)
Shuttleworth, Aaron David (Industrial)
Slabbert, Johan Daniel (Industrial)
Smit, Jakobus Hendrik (Industrial)
Smit, Luan (Civil)
Smit, Tiaan (Electrical and Electronic)
Smith, Andrew Stanley Desmond (Electrical and Electronic)
Smuts, Christiaan Michiel (Civil)
Snel, Zander (Civil) (*cum laude*)
Snyman, Dewalt Etienne (Electrical and Electronic)
Snyman, Liam Chad (Mechanical)
Spamer, Marike (Chemical)
Stack, Ryan Grant (Industrial)
Stark, Robyn (Industrial)
Steenkamp, Jean-Gideon (Chemical)
Stephan, Gideon Adrian (Mechanical)
Stewart-Burger, Cullen Douglas (Electrical and Electronic) (*cum laude*)
Steyn, Clara (Mechatronics)
Steyn, Ewert (Mechanical)
Steyn, Wouter (Mechanical)
Stofberg, Johannes Petrus Jordaan (Mechanical)
Strauss, Hermanus Viviers (Mechatronics)
Streicher, Gustav John (Electrical and Electronic)
Strydom, Andries Jakobus (Mechanical)
Strydom, Irene Francesca (Industrial) (*cum laude*)
Strydom, Tristan (Electrical and Electronic)
Strydom, Wian (Mechatronics)
Swallow, Rachel (Mechatronics) (*cum laude*)
Swanevelder, Matthew Clive (Electrical and Electronic)
Swart, Jarod Dylan (Electrical and Electronic)
Takoorparsadh, Mohini (Electrical and Electronic)
Tanton, Christopher (Civil)
Tekolo, Goitsemodimo Gideon (Electrical and Electronic)
Ten Siethoff, Saskia (Industrial) (*cum laude*)
Ter Haar, Bjorn (Civil) (*cum laude*)
Terry, Rebecca (Industrial)
Tessendorf, Kayle Anthony (Civil)
Theron, Jana (Industrial) (*cum laude*)
Thiry, Cesar Cameron (Mechatronics)
Thomas, Kelsey Jayde (Electrical and Electronic)
Thompson, James Ryan (Electrical and Electronic)
Thorne, Alexander Norman (Electrical and Electronic)
Todd, Lauren Claire (Mechatronics)
Tredoux, Larissa Heleen (Electrical and Electronic) (*cum laude*)
Trent, Alistair Connock James (Industrial Engineering)
Tsitsa, Ayanda (Civil)
Uys, Catharina Elizabeth (Chemical)
Valentine, Jacques Henry (Electrical and Electronic)
Van Coppenhagen, Gerhardus (Civil)
Van den Heever, Wilmari Martha Johanna (Mechanical)
Van der Linde, Charley (Industrial)
Van der Merwe, Elsara (Industrial)
Van der Merwe, Petrus Johannes Jakobus (Mechanical)
Van der Merwe, Pierre Herrmann (Mechanical)
Van der Merwe, Werner (Electrical and Electronic)
Van der Spuy, Eben (Mechanical)
Van der Westhuizen, Alex (Mechatronics) (*cum laude*)
Van der Westhuizen, Cale Alex (Electrical and Electronic) (*cum laude*)
Van Driel, Adrian (Mechanical)
Van Dyk, Erikus Daniel Albertus (Mechatronics)
Van Heerden, Cara (Chemical)
Van Jaarsveld, Nicolaas Vlok (Mechanical)
Van Niekerk, Tyron (Civil)
Van Rijckevorsel, Richard Ronald Alexander Thesen-Ender (Industrial)
Van Rooyen, Annalien (Electrical and Electronic)
Van Rooyen, Jacques (Civil)
Van Schalkwyk, Jayson (Chemical)
Van Schalkwyk, Ruan (Chemical)
Van Straten, Armandt (Civil)
Van Tonder, Francois Johann (Civil)
Van Tonder, Marina (Civil)
Van Wyk, Adriaan Jacobus (Industrial)
Van Wyk, Andreas Jacobus (Civil)
Van Wyk, Christo (Civil)
Van Wyk, Daniëlle (Industrial)
Van Wyk, Jacques (Electrical and Electronic)
Van Wyk, Maryna (Civil)
Van Wyk, Willem Frederik (Electrical and Electronic)
Van Zyl, Bianca Jordan (Industrial) (*cum laude*)
Van Zyl, Christiaan Alexander (Electrical and Electronic) (*cum laude*)
Van Zyl, Christine (Industrial)
Van Zyl, Daniel Lambrecht (Industrial)
Van Zyl, Frederick Jacobus Van Eeden (Electrical and Electronic)
Van Zyl, Jan Ulrich (Civil)
Van Zyl, Minette (Industrial)
Van Zyl, Raynhardt Vincent (Electrical and Electronic)
Van Zyl, Shane David (Chemical)
Verburg, Edrich (Electrical and Electronic)
Vet, Michael Werner (Industrial)
Vieira, Natacha Santos (Industrial)
Viljoen, Hanno (Chemical)
Visser, Jared Armoni (Civil)
Von Wielligh, Cobus (Electrical and Electronic)
Vorster, Christiaan Jacobus (Industrial)
Voss, Ashleigh Jean (Civil)
Wait, Daniel Brennan (Electrical and Electronic)
Walls, Dominique Tracy (Industrial)
Weiss, Nathan Eduard (Mechatronics)
Wessels, Bea (Mechatronics)
Wheeler, Gail Kate (Mechatronics)
Whitehead, Aidan John (Civil)
Wilhelm, Gareth (Industrial)
Willemse, Hanneke (Industrial)
Williams, Christopher Charles Pilkington (Chemical) (*cum laude*)
Zietsman, Pieter Schalk Jacobus (Electrical and Electronic)

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