



**DURBAN UNIVERSITY OF TECHNOLOGY**  
**INYUVESI YASETHEKWINI YEZOBUCHWEPHESHE**

---

**1 DECEMBER 2021 | 12:00**





# ORDER OF PROCEEDINGS

## **FACULTY OF HEALTH SCIENCES**

### **Opening Remarks**

Professor K Motaung  
Director: Technology Transfer and Innovation

### **Constitution of the Congregation and Official Welcome**

Ms N Nyembezi  
Chancellor

### **Musical Interlude**

Department of Drama and Production Studies

### **Presentation of Graduands and Diplomandi**

Professor GG Mchunu  
Executive Dean: Faculty of Health Sciences

### **Conferment of Degrees and Diplomas**

Ms N Nyembezi  
Chancellor

### **Congratulatory Message and Vote of Thanks**

Professor TZ Mthembu  
Vice-Chancellor and Principal

### **National Anthem**

### **Dissolution of the Congregation**

Ms N Nyembezi  
Chancellor

## HEADS OF DEPARTMENTS

### FACULTY OF HEALTH SCIENCES

Basic Medical Sciences	Professor J D Pillay	PhD (UCT); MPH (UKZN); B Med Sc Hons (UDW)
Biomedical & Clinical Technology	Dr JN Mbatha	PhD (UKZN); NHD (TN)
Chiropractic (Interim)	Dr D Varatharajullu	M Tech (DUT)
Community Health Studies	Dr M Kgware	DPhil (DUT); LLM (UKZN); BTech (MUT)
Dental Sciences (Interim)	Mrs Y Ngombane	M Tech (DUT)
Emergency Medical Care & Rescue	Vacant	
Homoeopathy	Vacant	
Medical Orthotics and Prosthetics (Interim)	Mr B Nothling	ND (TUT)
Nursing	Professor TSP Ngxongo	D Tech (DUT)
Radiography	Dr PB Nkosi	PhD (DUT); MBL (UniSA); M Tech (UJ); B Tech: (DUT)
Somatology	Dr S Ghuman	PhD (UKZN); PGD (UniSA)



## MESSAGE FROM THE CHANCELLOR

**Ms Nonkululeko Nyembezi**

Dear Graduating students, class of 2021

Congratulations to our newest alumni, the graduating class of 2021. You have accomplished an enormous amount and you have even greater potential than when you began your studies here at Durban University of Technology. You have earned your qualification and you have accomplished so much.

For some, you will be earning your undergraduate degrees, for others, this will mark the culmination of your postgraduate and professional degrees. For all of us though, I am fully aware that our actions to prevent the further spread of COVID-19 may have caused a disruption to this special occasion. I am as heartbroken as you are that your graduation from the Durban University of Technology has been impacted by this global pandemic.

It is my utmost wish that you remain connected with your lecturers, your friends and your classmates. Remain steadfast, as I am in the knowledge that your DUT education and the relationships you made, the learning you achieved and the experiences you had during your time at DUT will serve you well in the years to come.

You are DUT for Life.

Ms Nonkululeko Nyembezi

Chancellor



Sibingelela abazokwethweswa iziqu zonyaka ka-2021

Siyanibingelela

Igama lami nginguNonkululeko Nyembezi, nginguShansela weNyuvezi yaseThekwini yezobuChwepheshe. Ngamandla enginikwe wona njengoShansela, ngithi usungaqala umcimbi wokwethweswa kweziqu weNyuvezi yaseThekwini yezobuChwepheshe ozobe ubonakala kumabonakude.

Halala kubafundi bethu abozokwethweswa iziqu, labo abaqede izifundo zabo ngonyaka ka-2021. Nizuze okukhulu kakhulu futhi seniqeqesheke kakhulu okudlula ngesikhathi niqala izifundo zenu lapha eNyuvesi yaseThekwini yezobuChwepheshe. Nizisebenzele iziqu zenu futhi nizuze okukhulu.

Abanye, iziqu zabo zokuqala lezi, abanye bazogogoda. Lokhu kuzokhombisa umphumela weziqu eziphezulu neziphathelene nomsebenzi enizowenza. Kithi sonke nokho, ngiyazi ukuthi ukwenza kwethu ukuvikela ukubhebhetheka kokhuvethe kungenzeka ukuthi kudale ukuphazamiseka kulomcimbi osemqoka kangaka. Nakumina kubhulungu lokhu njengakunina ukuthi umcimbi wenu wokwethweswa iziqu waseNyuvesi yaseThekwini yezobuChwepheshe uphazamisekile ilolu bhubhane olusemhlabeni wonke.

Kuyisifiso sami ukuthi bungapheli ubudlelwano phakathi kwenu nothisha benu, abangani benu kanye nozakwenu. Ningaguquki, njengoba ngazi ukuthi imfundo yase-DUT kanye nobudlelwano enibenzile, enikufundile kanye nezinto enihlangabezane nazo ngesikhathi niseso-DUT konke lokhu konisebenzela eminyakeni eyazo.

Niyohlezi ningabase-DUT.



## MESSAGE FROM THE VICE-CHANCELLOR AND PRINCIPAL

Professor Thandwa Zizwe Mthembu

As we are all aware, Durban University of Technology (DUT) has produced thousands of graduates over the years. However, the 2021 cohort is the first since the start of implementation of *ENVISION2030* and the emergence of Covid-19 and all its ramifications on our teaching-learning arrangements we had to pivot from.

With the launch of **ENVISION2030** early last year, you would have had a taste of it including the idea of DUT's DNA and the DUT-Way that emanates from it. In future, when we reflect on the impact of the new strategy in all its facets, you will be the baseline cohort.

On behalf of DUT people, I take this opportunity to congratulate you on your important personal accomplishment. We recognize that this milestone carries with it important meanings, part of which suggests you have maintained the discipline of your thoughts and behaviour characteristic of DUT people. Without the requirement of discipline, this day may not have been possible for many of you. For this reason, I dare say that the very discipline you have demonstrated thus far will carry you through your next personal growth trajectories, ranging from further studies, starting a career, starting your own business to even starting a family.

To borrow from Jim Collins, a combination of a culture of discipline and an ethic of entrepreneurship produces "*the magical alchemy of great performance*". We, thus, have no doubt that focused and disciplined as you were during your studies, and with DUT entrepreneurial flair we have been instilling over a number of years now, you will be greatly successful in your pursuits.

More especially over the last few years of study at DUT, you would have appreciated the strategic approach, outcomes and impacts of our teaching-learning and research-innovation philosophy. We have sought to position DUT as a university of and for its broader society. We exist because our people must use their individual and collective creativity, innovation and entrepreneurial flair to solve perennial and new problems our broader society faces. Solutions to these must contribute towards improving the lives and livelihoods in our society. Through our '*Innovative Research and Curricula*', we expect you to become a model DUT '*Adaptive Graduate*' who will unleash your creativity and imagination to become the source of change and advancement. By 2030 we will be a vanguard of that change and advancement in society. We see you as an equal partner in this historic voyage we have just embarked upon.

Your graduation coincides with a myriad of challenges confronting the world, the African continent and South Africa as a nation. We do not expect you to feel sorry for yourselves or mourn the persistence of these problems. As DUT, we have accepted Pascal Finette's assertion that people are a source of everything that happens across all institutions of society. This means that it is people who are behind the problems we know. Similarly, we know that it is a different type of people who contribute ideas that will lead to lasting solutions. In the recent past, I said the following when unpacking the Stewardship Perspective of *ENVISION2030*:

*It is about being true and selfless stewards of everyone and everything we are custodians of. It is about our deep conviction and purity of character in our collective quest to reach our ultimate goal. It is about something deeper, irreducible, somewhat intangible, that will sustain us on a flight to greatness. Allow me to say Stewardship is essentially our compass towards our ultimate and shared destiny of greatness.*

As a DUT graduate, you should enthusiastically contribute towards the lives and livelihoods of all our people. In everything you do and will do onwards, may you demonstrate DUT's DNA and the DUT-Way. May you live all DUT's Values and Principles as part of your way of life. That way, you will stand out and be seen to be a distinctive DUT graduate that all will wish to associate with, perhaps employ and perhaps partner with on big and innovative projects.

We wish you all the best in your future endeavours. Become the change you have always yearned for.

# UMLAYEZO KASEKELA SHANSELA NOPHINDE ABE NGUTHISHANHLOKO



Njengoba sonke sazi, iNyuvesi yaseThekwini yezobuChwepheshe (DUT) isikhiqize izinkulungwane zezitshudeni eminyakeni eyedlule. Noma kunjalo, labo abathweswa iziqu ngo-2021 bangabokuqala selokhu kusungulwe uhlelo olubizwa nge-ENVISION2030 kanye nokuvela kokhuvethe nezinguquko-ke obekufanele zenziwe ekufundiseni nokufunda.

Ngesikhathi kuqala i-ENVISION2030 ekuqaleni konyaka odlule, ngaleso sikhathi ubungabe usutholile ukuthi iyini yona okubandakanya nomqondo wolibofuzo lwe-DUT neNdlela ye-DUT esuka kuyo. Ngesikhathi esizayo uma sesibuka okwenziwe yileli su elisha kuzo zonke izinhlangathi zalo, niyoba yiqembu lokuqala okweqhathaniswa nalo.

Uma ngikhulumela abantu base-DUT, ngithatha lelithuba ukunihalalisela empumelelweni yenu emqoka kangaka. Siyaqonda ukuthi lempumelelo isho lukhulu kini, okunye kwakho kusho ukuthi nikwazile ukuqoqa imicabango yenu kanye nendlela yokuziphatha okuyinto efana nabantu base-DUT. Ngaphandle kokukwazi ukuziphatha ngendlela, lolusuku bekungenzeka lungabi yimpumelelo kwabaningi benu. Ngalokho ngithi, lendlela enikwaze ukuziphatha ngayo kuze kubemanje izoniqhuba kwenizokwenza kusukela manje, kungaba ukuqhubeka nezifundo, ukusebenza, ukuqala amabhizinisi enu noma ukuqala imindeni.

Ukuthatha emazwini ka-Jim Collins, isiko lokukwazi ukuziphatha kanye nendlela yokukwazi ukuphatha amabhizinisi lokhu kokubili kukhiqiza, “*the magical alchemy of great of performance*” okusho ukuthi “umlingo wenqubo yoguquko yokukhulu kokwenza umsebenzi”. Ngakho, asingabazi ukuthi indlela enikwaze ngayo ukugxila kwenikwenzayo nokuziphatha njengoba benenza ngesikhathi sezifundo zenu kanye nobuhle bokusungula amabhizinisi ebekufakwa ezingqondweni zenu e-DUT enqwabeni yeminyaka eyedlule, ngaleyo ndlela niyophumelela kukho konke enihlela ukukwenza.

Ikakhulukazi eminyakeni yokugcina yokufunda e-DUT, kufanele ngabe nithakasele izindlela zokwenza izinto, imiphumela yendlela izinto ezenzeka ngayo, kanye nemiphumela yendlela yokufunda-nokufundisa kanye nezindlela ezintsha zocwaningo zobunjalo bolwazi nezinto eziyiqiniso nezikhona. Sizame ukuthola indlela yokubeka i-DUT njengenyuvesi yomphakathi wonkana. Sikhona ukuze abantu bakwazi ukusebenzisa amakhono abo ngabanye nanoma futhi besebenzisana nabanye, ukukwazi ukufika namacebo okwenza izinto ngcono kanye nokukwazi ukwenza kahle kwezamabhizinisi bakwazi ukuxazulula izinkinga ezintsha kanye nalezo umphakathi wonkana osubhekene nazo inqwaba yeminyaka. Lezi zisombululo kufanele kube ukuthi zibe negalelo ekwenzeni ngcono izimpilo zabantu kanye nendlela yabo yokuphila emphakathini yethu. Nge, “Innovative Research and Curricular” silindele ukuthi nibe yisibonelo se-DUT, “izitshudeni esezigodile ezikwazi ukumelana noshintsho” ezizokwazi ukucabanga ngokusabalalisa umqondo kanye nekhono lokudala ukuze nibe umsuka woshintsho nokuthuthuka. Ngonyaka ka-2030 kuyobe kuyithi esihamba phambii ngezindlela ezintsha zokuthuthukisa umphakathi. Sinibona njengabalingani bethu kulomlando wohambo esilualayo.

Ukuthweswa kwenu iziqu kwenzeke ngesikhathi izwe libhekene nenqwaba yezingqinamba, izwekazi lase-Afrika kanye neNingizimu Afrika njengesizwe. Asilindele ukunibona nidabukisa okanye nikhungathwe ukuba khona kwalezi zinkinga ezingapheli. Njenge DUT, sesiwamukele umbono ka-Pascal Finnet othi abantu bawumsuka wayo yonke into eyenzakalayo kuzo zonke izikhungo zomphakathi. Lokhu kusho ukuthi ngabantu abayimbangela yezinkinga esizaziyo. Kuyefana nokuthi, siyazi ukuthi ngabantu abathile abayobamba iqhaza ngemibono eyoholela ezisombululweni ezohlala zikhona njalo. Esikhathini esingasingakanani esedlule, ngasho lokhu okulandelayo uma ngichaza ngoMbono wokuPhatha we-ENVISION2030:

*Kumayelana nokuba ngumholi weqiniso nongayena ugombela kwesakhe kubantu nakho konke lokhu okudinga ukunakekelwa yithi. Kumayelana nokujula nokukholelwa kwethu kanye nobumsulwa bobuthina ekubambisaneni ekufuneni lokho okuwumgomo wokugcina, ongehliseki, ongasho nje ukuthi into engabambeki, lokho kuyosilondoloza size sifinyelele kokukhulu. Ngivumeleni ngisho ukuthi uBuholi buyinkombandlela bendawo yethu esiphokophelele kuyo neyokugcina yethu sonke yobukhulu.*

Njengomfundi wase-DUT othweswe iziqu, kufanele niphonse esivivaneni ezimpilweni zabantu bethu kanye nendlela abaziphilisa ngayo. Kukho konke enikwenzayo nenizokwenza ukuya phambili, sengathi ningakhombisa uLibofuzo lwe-DUT neNdlela ye-DUT. Sengathi ningaphila ngazo zonke izinto ezibalulekile neziyigugu nezimiso ze-DUT njengengxenywe yempilo yenu. Ngaleyo ndlela, niyogqama niphinde nibonakale ukuthi ningabafundi abathweswe iziqu e-DUT abantu bonke abayofisa ukwazana nabo, mhlampe babaqashe okanye babe ngabalingani babo emisebenzini emikhulu yokuqhamuka nezinto ezintsha.

Sinifisela okuhle kodwa kulokhu enizokwenza kusasa. Yibani ushinto enanikade nifisa ukuba yilo.





## MESSAGE FROM THE PRESIDENT OF CONVOCATION

Mr Siyabonga Vezi

Class of 2021. Congratulations on your well-deserved success!

You should be extremely proud of your accomplishment. One's graduation is always a momentous occasion, but completing your studies and graduating during the midst of a world-wide pandemic is nothing short of extraordinary. You have made it through a very challenging time. Your indomitable spirit and a thirst for success has propelled you to work hard and see this through. Well done! These are the very skills that will hold you in good stead and give you the confidence to overcome hurdles and continue with the journey ahead.

ENVISION2030 speaks of producing adaptive graduates – developing graduates with the acumen to initiate and/or respond to change. The Class of 2021 epitomises that. You were faced with uncertain times but your resilience and fortitude endured and here you are, today, celebrating all the hard work that led to this victory. As you celebrate let us pay homage to those that have made sacrifices to ensure you fulfil your potential as a contributing member of society. Pay it forward as you, too, seek to *Improve Lives and Livelihoods*. To make a donation to DUT go to [www.dutalumni.com](http://www.dutalumni.com) and click on “Ways to Give”. Select one of the three payment options. It is that easy.

Having being ranked among the top five Universities in South Africa, according to the Times Higher Education World Rankings, as DUT we are confident that we have produced graduates with a social conscience who will make an indelible mark on the world and who will certainly become members of a global community.

We hope that you have created fond memories of your time at DUT and we look forward to welcoming you back should you choose to continue with postgraduate studies. The Executive Committee of Convocation is proud to be part of one of your greatest achievements. We look forward to great things from the graduating Class of 2021. I humbly request that you make contact by continuously updating your details so that you maintain your lifelong link with DUT, your *Alma Mater*.



# UMLAYEZO KAMENGAMELI WENHLANGANO YABAFUNDI ASEBETHWESWE IZISU



Ukwethweswa kwezisu kwasebusika 2021

Bafundi bango-2021. Halala empumelelweni yenu enifanele!

Kufanele niziqhenye ngesenikuzuzile. Umcimbi wokwethweswa izisu ungumcimbi uhlale ungomqoka kakhulu, kodwa-ke ukuqeda izifundo zenu niphinde nithweswe izisu ngesikhathi izwe libhekene nobhubhane emhlabeni wonke lokho kuyisimanga esikhulu. Niphumelele kunzima. Umoya wokuphikelela kanye nokomela impumelelo kunenze nasebenza kanzima kwaze kwaba manje. Nisebenzile! Lawa ngamakhono ayonigcina aphinde aninike ukuzethemba okuyonenza nikwazi ukumelana nezingqinamba niphinde niqhubeke nohambo enibhekene nalo.

Uhlelo i-ENVISION2030 lukhuluma ngokukhiqiza izitshudeni ezikwazi ukumelana nezimo ezahlukeneyo ukuthuthukisa izitshudeni ngobuchule ukuze zikwazi ukuqala kanye/noma zikwazi ukuthi zenzenjani uma kufika ushintsho. Abafundi baka-2021 bayisibonelo esihle ngokweqile salokho. Benibhekene nesikhathi esinzima kodwa nibekezele ngenxa yamandla nesibindi, namhlanje nizobungaza ukusebenza ngokuzikhandla okuholele kulempumelelo. Nisabungaza, ningakhohlwa ilabo abadele konke ukuqinisekisa ukuthi ningalabantu eniyibona namhlanje abaneqhaza abalibambayo njengamalungu omphakathi. Khokha ngendlela yokuthi nawe uyafuna ukuthi *Izimpilo zabantu zibe ngcono kanye neNdlela abantu abaphila ngayo*. Uma ufuna ukuphonsa esivivaneni e-DUT ungangena ekhasini le-internet: [www.dutalumni.com](http://www.dutalumni.com) bese ucofa lakuthi, “iziNdlela zokuNikela.

Ukubekwa kanye namanyuvesi amahlanu aphezulu ohlwini eNingizimu Afrika, ngokwe-Times Higher Education Worlds Rankings, njenge-DUT siyazethemba ukuthi sikhiqize izitshudeni ezikwaziyo ukuphila nabantu eziyoyibeka induku ebandla, futhi ezizoba amalungu omphakathi omhlaba jikele.

Sithemba ukuthi nizenzele izinkumbulo ezithandekayo zesikhathi senu e-DUT kanti singakuthokozela ukubuya kwenu uma nikhetha ukuqhubeka nezifundo zenu. Ikomidi Elikhethekile leNhlango yasebethweswe izisu liyaziqhenya ngokuba yingxenye yenye yempumelelo yenu enkulu kangaka. Sibheke okuhle kodwa ezitshudenini zango-2021 ebezithweswa izisu. Nginyaninxusa ukuthi nixhumane nathi ngokuthi niqhubeke nokubuyeka imininingwane yenu ukuze nigcine ubudlelwano benu ne-DUT njalo, inyuvesi yenu ebenifunda kuyo.

Khumbulani ukuhlala ngokuqhelelana, ukugeza izandla imizuzwana engama-20 bese-ke njalo nifaka isimfoyo uma niphumela phandle.

Niphephe. Nibusiseke.

## COUNCIL MEMBERS

Mr N Z W Madinane

Chairperson of Council

Ms B Ntombela

Vice-Chairperson of Council

### EXTERNAL COUNCIL MEMBERS

Mr MF Gumede

Convocation

Mr M Shange

Convocation

Mr D Makaya

Convocation

Mr SH Vezi

Council Appointee

Mr Z Gumede

Council Appointee

Ms B Chiliza

Council Appointee

Prof L Molamu

Council Appointee

Mr S Sibiya

Council Appointee

Mr B Singh

Council Appointee

Ms G Twala

Council Appointee

Cllr. W Mapena

eThekweni Municipality

Vacant

Minister of Higher Education

Vacant

Minister of Higher Education

Dr N Makhanya

Minister of Higher Education

Ms B Masinga

Minister of Higher Education

Mr L Longwe

Minister of Higher Education

Mr LKT Mehta

ML Sultan Charitable and Education Trust

### INTERNAL COUNCIL MEMBERS

Prof TZ Mthembu

Vice-Chancellor and Principal

Prof MN Sibiya

Deputy Vice-Chancellor: Teaching and Learning

Vacant

Deputy Vice-Chancellor: People and Operations

Prof J Mellen

Academic Staff

Mr M Estrice

Institutional Forum

Mr N Mthembu

Professional and Administrative Staff

Mr L Masethi

Student Representative Council

Mr S Dlamini

Student Representative Council

Prof V Rawjee

Senate

Prof FG Netswera

Senate

Mr NG Munsamy

Support and Service Staff

# OFFICE BEARERS

Ms N Nyembezi

Chancellor

## EXECUTIVE AND SENIOR MANAGEMENT

Professor T Z Mthembu

Vice-Chancellor and Principal

PhD (Wits); MSc (Vanderbilt); BSc Hons (UFH)

Professor M N Sibiya

Deputy Vice-Chancellor:  
Teaching and Learning

D Tech (DUT); M Tech (TN); BCur Hons (UniZulu)

Vacant

Deputy Vice-Chancellor:  
People and Operations

Professor S Moyo

Deputy Vice-Chancellor:  
Research, Innovation and Engagement

PhD (UND); M TEM (UniMelb); MSc (UND)

Dr M J Nkonoane

Registrar

PhD (CUT); MEd (VISTA); B Paed (UniZulu)

Professor O O Olugbara

Executive Dean:  
Accounting and Informatics

PhD (UniZulu); MSc (Unilorin)

Professor S Singh

Executive Dean:  
Applied Sciences

PhD (UDW)

Professor R Kruger

Executive Dean:  
Arts and Design

PhD (UP); NHD (TUT)

Professor B Twala

Executive Dean:  
Engineering and the Built Environment

PhD (OU); MSc (Southampton); BA (UNESWA)

Professor G G Mchunu

Executive Dean:  
Health Sciences

PhD (UKZN)

Professor F G Netswera

Executive Dean:  
Management Sciences

DPhil (SU); PGDip (Buckinghamshire Chilterns);  
NDP (TSA); BA Hons (UWC); BA (UniVEN)

Mrs N F Dhumazi

Chief Financial Officer

MCom (UP); PGD Auditing (UniSA); BCom (UniVenda)

Dr Q P T Mtshali

Chief Information Officer

PhD (NSU); BSc (SUNY)

Mr S Nyangintsimbi

Chief Risk Officer

MPhil (UP); MBL (UniSA); B Com (WSU)

Dr J M Moletse

Director: Midlands Campuses

PhD (PSU); MBA (UCT); MSc (HU); BSc Hons (Wits)

Dr D Mohale

Director: Special Projects

DLitt et Phil (UniSA); MMPP (Wits); BA (Cum Laude) (CUT)

Dr V L Mthethwa

Senior Director:  
Human Resources

PhD (UKZN)



# Faculty of Health Sciences

## Degree of Doctor of Philosophy in HEALTH SCIENCE

GAM Nkululeko Phalson

### Title of Thesis

A quality framework for radiographic service delivery in regional hospitals in the eThekweni District, KwaZulu-Natal

### Summary

The aim of the study was to explore the factors affecting quality in diagnostic imaging departments of the regional hospitals in the eThekweni District of KwaZulu-Natal in order to develop a framework that can be used to improve quality. A convergent parallel mixed methods design was used, to guide study. The quantitative strand of the study used a questionnaire administered to patients to measure their levels of satisfaction with service delivery rendered by the diagnostic imaging departments. Furthermore, the quantitative strand consisted of an image reject analysis to investigate rates at which images were rejected and reasons for rejection. The qualitative strand involved in-depth one-on-one interviews with doctors, radiographers, Radiography Managers and hospital wide Quality Assurance Managers.

Four themes emerged following analysis of qualitative data and these included definition of quality of imaging services by the participants, inadequacy of clinical provisions, leadership and management of medical imaging departments as well as facilities and resources. Furthermore, regarding leadership and management, participants expressed opinions on roles and responsibilities, accountability, monitoring of working hours and National Core Standards. Lastly, facilities resources included issues such as inadequacy of imaging equipment, inadequacy of staffing, and in-service training. The framework developed can be used to enhance equipment testing and maintenance policies and improve staff and patient satisfaction as well as staff development.

**Supervisor** Prof M N Sibiyi

KHOZA Tshikani Lewis

### Title of Thesis

A model for the prevention of work-place violence towards public service emergency care providers in Gauteng province

### Summary

Prehospital Emergency Care Providers (PECPs) are particularly at risk of workplace violence as they provide direct patient care in often hostile and undefined public areas whilst interacting with the patient, their family members and bystanders. The aim of the study was to develop a model to prevent of workplace violence against public service PECPs in Gauteng Province. The study was conducted using a non-experimental, cross sectional and mixed methods design guided by a social constructivism/ interpretivism paradigm with an interpretative framework founded on pragmatism.

The findings of this study revealed that even with the current preventative measures in place, there is a high incidence of workplace violence towards public sector emergency care providers within low- and middle-income communities of Gauteng who rely on state funded healthcare. The risk factors to workplace violence included service delivery frustrations and protests, high crime rates, a lack of reliable backup and emergency care providers being perceived as easy targets. Workplace violence results in a lack of job satisfaction and a poor perception of workplace safety culture amongst PECPs and a decreased quality of and limited access to emergency medical care amongst the low- and middle-income communities in Gauteng. The findings and meta-inferences generated by the mixed results informed the development of a proposed model for the prevention of workplace violence towards public service PECPs in Gauteng Province.

**Supervisor** Prof M N Sibiyi

**Co-Supervisor** Dr N Mshunqane

---

SHELEMBE      Thobile Namsile Vinah

**Title of Thesis**

A practice framework to enhance the implementation of Recognition of Prior Learning: A case study of the Faculty of Health Sciences at the Durban University of Technology

**Summary**

The aim of this study was to explore and review the extent of RPL implementation in the Faculty of Health Sciences and ultimately, develop a practice framework to enhance the RPL implementation. A multistage mixed method approach was used to conduct the study in three stages. In the first stage, qualitative data was collected from 31 participants from 10 departments in the FOHS at the selected university using semi-structured interviews. The second stage utilized quantitative data collected through 80 portfolios of evidence of candidates who applied in those departments. Data collection tool checking available evidence in the portfolio was used to obtain data from the portfolios. In the third stage, quantitative data was collected using the flow chart for RPL application and approval process.

Five themes emerged from qualitative data analysis and they included conceptualization of the RPL selection criteria, perceptions with regards to RPL implementation, opinions about the RPL training opportunities, understanding of the RPL practitioner's competences, and views about enhancing RPL implementation. Several factors that influenced the implementation of RPL were identified. It is apparent from these findings that the FOHS needs to put strategies in place to enhance RPL implementation. Thus highlighting the need to develop a tailored practice framework for the Faculty of Health Sciences at the selected university.

**Supervisor**      Prof M N Sibiyi

**Co-Supervisor**    Dr P B Nkosi

**Degree of Doctor of RADIOGRAPHY**

RUGUT      Daniel Kipkemoi

**Title of Thesis**

A model for training radiographers in image interpretation in Kenya

**Summary**

This study aimed to explore the perceptions of Kenyan radiographers about training in image interpretation of the chest and musculoskeletal systems, to supplement the shortage of radiologists. An exploratory sequential mixed methods design was used to conduct this study in two phases. Phase 1 was conducted through focus group discussions interviews with thirty radiographers employed in five public hospitals in Uasin-Ngishu County. The findings of Phase 1 were used to develop the questionnaire for Phase 2 of the study. A total of 336 questionnaires were distributed to radiographers and the response rate was 93%. The results of the two phases were integrated. Thematic analysis of the qualitative data was used to identify themes. SPSS Statistics Version 26 was used to analyze quantitative data.

The results from the two phases indicated that there was an acute shortage of radiologists in Kenya, resulting in a huge gap in the provision of radiological reports. The participants' perceptions were that if radiographers were trained in image interpretation of the chest and musculoskeletal systems, patients would receive prompt image interpretation reports. Hence, a model for training radiographers in image interpretation to supplement the shortage of radiologists was developed.

**Supervisor**      Prof M N Sibiyi

**Co-Supervisor**    Dr P B Nkosi

**Degree of Master of HEALTH SCIENCES**

MASUKU      Andile Samkele  
(Full Research)

**Title of Dissertation**

The psychological effects of teenage pregnancy on high school learners in the Vryheid District, KwaZulu-Natal

**Supervisor**      Prof M N Sibiyi

**Co-Supervisor**    Mr R T Hlengwa

---

MAYEZA                      Zamani Effort  
(Full Research)

**Title of Dissertation**

Knowledge, attitudes and practices of Black African males toward the use of sun protection: A case study of a University of Technology in KwaZulu-Natal

**Supervisor**                      Prof M N Sibiya

**Co-Supervisor**                      Ms M U Makgobole

\*MUNSHI                      Neshika Deepak  
(Full Research)

*CUM LAUDE*

**Title of Dissertation**

Hinduism as a healing system: traditions and rituals that contribute to the well-being of families

**Supervisor**                      Prof R Bhagwan

**Co-Supervisor**                      Ms C Singh

PONSAMY                      Jeanine Kelisha  
(Full Research)

**Title of Dissertation**

An exploration of the roles of child and youth care workers at schools within the Isibindi Ezikoleni programme

**Supervisor**                      Prof R Bhagwan

ZONDEKA                      Nokwanda  
(Full Research)

**Title of Dissertation**

Professionalisation of Child and Youth Care: Perspectives of Child and Youth Care workers in eThekwin, KwaZulu-Natal

**Supervisor**                      Prof M N Sibiya

**Co-Supervisor**                      Ms N M Siluma

**Degree of Master of Health Sciences in EMERGENCY MEDICAL CARE**

LAGESSE                      Amy Elizabeth  
(Full Research)

**Title of Dissertation**

Content analysis of African emergency care publications published between 2013 – 2017

**Supervisor**                      Dr S Sobuwa

**Co-Supervisor**                      Dr S Bruijns

**Degree of Master of Health Sciences in ENVIRONMENTAL HEALTH**

BAKARI                      Hawa  
(Full Research)

**Title of Dissertation**

Circulating levels of pro- and anti-inflammatory cytokines during pregnancy and their association with clinical and demographic maternal factors

**Supervisor**                      Prof P Reddy

**Co-Supervisor**                      Dr N Govender

MAGABUKO                      Yongama Lukhanyo  
(Full Research)

**Title of Dissertation**

Elemental distribution of selected heavy metals in water, plants and soil found along the uMsunduzi River, Pietermaritzburg and its impact on the environment

**Supervisor**                      Prof P Reddy

**Co-Supervisor**                      Prof R Moodley

---

## Degree of Master of Health Sciences in MEDICAL LABORATORY SCIENCE

SHANGASE Simangaliso Idiom  
(Full Research)

### Title of Dissertation

The evaluation of the quality of sanitation and stored water for domestic use in the Umlazi P Section informal settlement

**Supervisor** Dr P Pillay

**Co-Supervisor** Ms T S Ndlovu

## Degree of Master of Health Sciences in NURSING

BRIDGEMOHAN Rozana  
(Full Research)

### Title of Dissertation

Factors influencing completion of a research project by undergraduate student nurses of the KwaZulu-Natal College of Nursing

**Supervisor** Dr D G Sokhela

**Co-Supervisor** Prof T S P Ngxongo

DE WET Robyn Anne Ashington  
(Full Research)

### Title of Dissertation

Knowledge, attitude and perceptions of occupational health nursing practitioners towards testing for cannabis in the workplace

**Supervisor** Prof T S P Ngxongo

**Co-Supervisor** Dr V Naidoo

MDIMA MASONDO Judith Nozipho  
(Full Research)

### Title of Dissertation

The use of key performance indicators in developing work plans for Primary Health Care Clinics: A case study of Nurse Managers from Ilembe Health District in KwaZulu-Natal

**Supervisor** Prof T S P Ngxongo

**Co-Supervisor** Mr N Sibanda

MOODLEY Jennifer  
(Full Research)

### Title of Dissertation

Factors influencing the uptake of childhood immunization amongst children under five years in selected primary health care facilities in eThekweni District, KwaZulu-Natal

**Supervisor** Dr D G Sokhela

**Co-Supervisor** Prof T S P Ngxongo

NAGURA Veslutchmei  
(Full Research)

### Title of Dissertation

The knowledge, attitude and perception of people with Type II Diabetes Mellitus as related to self-management practices in the Ugu District of KwaZulu-Natal

**Supervisor** Dr A Razak

**Co-Supervisor** Dr L Hillerman

## Degree of Master of Health Sciences in RADIOGRAPHY

KHULUSE Nokuphiwa Lynette  
(Full Research)

### Title of Dissertation

Challenges experienced by newly qualified sonographers as they transition in the workplace: a qualitative study in KwaZulu-Natal province, South Africa

**Supervisor** Dr B P Nkosi

**Co-Supervisor** Dr T E Khoza



SHAIK Naazneen  
(Full Research)

**Title of Dissertation**

The effect of student housing on academic performance: DUT Radiography students' perspective

**Supervisor** Prof J K Adams  
**Co-Supervisor** Mr T Motaung

**Degree of Master of Health Sciences in HOMOEOPATHY**

FOURIE Philippus Jacobus  
(Partial Research)

**Title of Dissertation**

A placebo-controlled in-vivo study of the effect of four musical imponderabilia on the growth of *Calendula officinalis* plants

**Supervisor** Prof A H A Ross  
**Co-Supervisor** Dr I Matimati

**Degree of Master of Technology in CHIROPRACTIC**

DHLAMINI Wabo  
(Partial Research)

**Title of Dissertation**

A musculoskeletal injury profile of weight trainers at gyms within the eThekweni municipality

**Supervisor** Dr P Maharaj  
**Co-Supervisor** Dr A Pastellides

GIBB Conor Beckett  
(Partial Research)

**Title of Dissertation**

An analysis of the combination effects of swimming and overhead throwing on the shoulder complexes of male first division water polo players

**Supervisor** Dr G Matkovich

KHAMISSA Iman  
(Partial Research)

**Title of Dissertation**

The epidemiology of low back pain during pregnancy, among women attending a hospital antenatal clinic in the eThekweni Municipality, KwaZulu-Natal

**Supervisor** Prof F Haffeejee

KHUMALO Nondumiso Nontobeko  
(Partial Research)

**Title of Dissertation**

The epidemiology of low back pain in adolescents attending selected public schools in a selected district in the eThekweni Municipality

**Supervisor** Dr P Maharaj

MUDGE Alexander  
(Partial Research)

**Title of Dissertation**

Sagittal spinal alignment in long-term surfers of eThekweni

**Supervisor** Prof J D Pillay

MÜLLER Devereaux Bernard  
(Partial Research)

**Title of Dissertation**

Factors influencing patient compliance to self-management education for spinal pain in a chiropractic teaching clinic in KwaZulu-Natal

**Supervisor** Dr Y Thandar  
**Co-Supervisor** Prof F Haffeejee

RUTHNAM Mary Ann  
(Partial Research)

**Title of Dissertation**

Patient satisfaction at the Durban University of Technology Chiropractic Day Clinic using a pre-validated survey

**Supervisor** Dr D Varatharajulu

SIKHAHLANE S'phelelisiwe Sharin  
(Partial Research)

**Title of Dissertation**

An epidemiological investigation of musculoskeletal pain in the Black elderly population at a selected rural clinical within the eThekweni district

**Supervisor** Dr A van der Meulen

SINGH Shaista  
(Partial Research)

**Title of Dissertation**

Determining the normative value of the Functional Movement Screen™ in weightlifters in participating gyms within the eThekweni municipality, and its association to injury

**Supervisor** Dr P Maharaj

SKELDING Emily Lauren  
(Partial Research)

**Title of Dissertation**

Cognitive function among first division KwaZulu-Natal Rugby Union players and its associations with duration of exposure to the sport and a history of concussion

**Supervisor** Prof J D Pillay  
**Co-Supervisor** Dr J C Brown

**Degree of Master of Technology in HOMOEOPATHY**

DIPLAL Kristica  
(Partial Research)

**Title of Dissertation**

A homoeopathic proving of *Garcinia cambogia* 30CH with the subsequent comparison to its empirical clinical issues

**Supervisor** Dr M Maharaj

FOLEY Kendall Joy  
(Partial Research)

**Title of Dissertation**

A comparative analysis of the existing proving symptomatology of two indigenous *Leguminosae* plant family remedies with existing homoeopathic remedies from the *Leguminosae* family

**Supervisor** Dr M Maharaj  
**Co-Supervisor** Dr V Alwar

KHUMALO Mzwandile  
(Partial Research)

**Title of Dissertation**

Prescribing techniques of KwaZulu-Natal homoeopathic practitioners for paediatric patients

**Supervisor** Dr C M Hall  
**Co-Supervisor** Dr K Erwin

MHLONGO Bukiwe Nothando Princess  
(Partial Research)

**Title of Dissertation**

Patient management experiences of individuals attending a homoeopathic community health centre

**Supervisor** Dr J C Ngobese-Ngubane  
**Co-Supervisor** Dr I Couchman

MONARENG Karabo Innocentia  
(Partial Research)

**Title of Dissertation**

Knowledge, attitudes and perceptions of community members of the Maluti-a-Phofung municipality, Free State on homoeopathy

**Supervisor** Dr V Alwar  
**Co-Supervisor** Dr I Couchman

PILLAY Suvanya  
(Partial Research)

**Title of Dissertation**

Perceptions and management of paediatric allergies amongst registered homoeopathic practitioners in the greater eThekweni area

**Supervisor** Dr C M Hall

**Degree of Bachelor of Health Sciences in  
DIAGNOSTIC RADIOGRAPHY**

OMAR Nabeela

**Degree of Bachelor of Health Sciences in  
EMERGENCY MEDICAL CARE**

CELE Mlungisi Ziphozonke

**Degree of Bachelor of Health Sciences in  
ENVIRONMENTAL HEALTH**

MBATHA Nomvuselelo Nomzamo  
MBHELE Sithembiso Mcebiseni  
MDUDU Ndibulele

MULIMA Noxolo Lady-Peace  
MYAKA Nkazimulo  
NGCOBO Mondli Thobani  
NGCONGO Khwezi  
NGIDI Bongiwwe Ntombifuthi  
NYDOO Kyle  
QWABE Nokuthula Nomfanelo  
XULU Nonsikelelo

**Degree of Bachelor of Health Sciences in  
MEDICAL ORTHOTICS AND PROSTHETICS**

CEBISA Nkosinathi  
XHAKAZA Nkosiyoumuzi

**Degree of Bachelor of Technology in  
BIOMEDICAL TECHNOLOGY**

FRANCIS-BUDHRAM Patricia Jade

**Degree of Bachelor of Technology in  
CLINICAL TECHNOLOGY**

GCUMA Babalwa  
\*JOOSAB Moonira CUM LAUDE  
KRISHNA Kaelyn Elijah  
SEVPERSAD Nicole

**Degree of Bachelor of Technology in  
EMERGENCY MEDICAL CARE**

ALLY Asmara  
BODIRWA Fish Dick  
\*COOK Michelle Liza CUM LAUDE  
DE BRUIN Kathrine CUM LAUDE  
FRASER Marchant  
GOVENDER Sean  
HALSE Brian Craig  
MABASA Boni Johannes  
MDLETSHE Thandiwe Constance  
METEDAD Hashim Sayed Halifa  
MHLONGO Bridget Ntombizodwa  
NETSHIDZIVHANI Tendani Joseph  
NGCOBO Sphiwe Welcome  
NGOBENI Langutani Thackson  
NSEBESHE Siphakanyiswa Cyprian  
ROTHMANN Lourens Johannes  
SIBEKO Sibusisiwe Perseverance  
SITHOLE Phakamani Mzwandile

**Degree of Bachelor of Technology in  
NURSING SCIENCE**

CEBEKHULU Sanele  
MCHUNU Vamokuhle Sanele  
NDIMANDE Cebolenkosi Nhlakanipho  
NDLOVU Sizwe Joshua

**Degree of Bachelor of Technology in  
NURSING (NURSING MANAGEMENT)**

MOFOKENG Carol Nomusa

---

**Degree of Bachelor of Technology in NURSING  
(OCCUPATIONAL HEALTH)**

CELE                      Deli Tracy

**Higher Certificate in  
DENTAL ASSISTING**

DLADLA                      Lethokuhle  
SOTSHANGANE      Yonela



**DURBAN UNIVERSITY OF TECHNOLOGY**  
**INYUVESI YASETHEKWINI YEZOBUCHWEPHESHE**

**CONGRATULATIONS**  
**SIYAKUHALALISA**

**ENVISION 2030**

transparency • honesty • integrity • respect • accountability  
fairness • professionalism • commitment • compassion • excellence

