

**DAMIBIA UNIVERSITY** OF SCIENCE AND TECHNOLOGY

# **Graduation Programme**

FACULTIES OF: COMPUTING AND INFORMATICS; ENGINEERING AND THE BUILT ENVIRONMENT; AND HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

Date: Friday, 09 May 2025Time: 08:00Venue: Mercure Hotel (formerly known as Safari Hotel)



# THE UNIVERITY'S THEME FOR 2025:

**A Decade of Eminence:** Celebrating Education, Science and Technology for Development

# **10<sup>TH</sup> ANNIVERSARY LOGO**

Wheel of:

Innovation

• Time

• Technology





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#### HONOURABLE PROFESSOR PETER H KATJAVIVI

(CHANCELLOR)

Extramural Studies in History and International Relations; Law and Politics; MA (Political Soc); DPhil (History and International Relations), DPhil (Honoris Causa)

#### **DR LEAKE S HANGALA**

(CHAIRPERSON) Cert (Mgt); Cert (Exec Mgt, Adv Mgt Prog); BSc, MSc, and PhD (Geology and Mineralogy)

MS NORAH NDOPU (DEPUTY CHAIRPERSON) Dip (SED), BComm, Cert (SDP), PGD (Mgt)

#### MS FLORA FELICITA GAES

BJuris; LLB; Admitted Legal Practitioner of the High Court

#### **MS KADIVA HAMUTUMWA**

BA (Psychology); BCom Hons (Indusrial Psychology); PGD (Mgt Strat); PGD (Water Res Mgt)

#### MS RACHEL MAANO NDESHIHAFELA KALIPI

BComm, BComm (Hons); Adv Dip (Mgt Acc); Grad Cert (Diamond Professional; SMDP; CMA, PGD: Financial Planning, PGD in Financial Planning

#### **MS EMILIA NGHIKEMBUA**

BJuris; LLB; LLM (CUM LAUDE); EMBA

#### HON SAM SHAFIISHUNA NUJOMA

Cert (Public Mgt & Gov); Higher Cert (Paralegal Studies)

#### **DR STANLEY SHANAPINDA**

BJuris; LLB; MM ICT PR; PhD (Comp Sc)

#### **MR GERHARD VRIES**

MSc (Edu Leadership and Policy Studies); BE and PG Higher Edu Dipl; BArts (Social Studies); African Studies Dipl;PG Cert (Public Sector Mgt); Cert (Fundraising)

#### **DR DETLOF VON OERTZEN**

BSc (Physics); BSc Hons (Physics); MSc (Theoretical Physics); Adv MBA (Fin); PhD (Physics)

#### **PROF EROLD NAOMAB**

(VICE-CHANCELLOR)

BSc (Chem & Molecular Bio), MSc (Biochem), **(CUM LAUDE)**, MRes (Strat Res Mgt) (*Distinction*), PhD (Plant Sc)

#### **MS MIRIAM DIKUUA**

(DEPUTY VICE-CHANCELLOR: FINANCE AND OPERATIONS) BAcc, PDGA, CA, MComm (Acc)

#### **PROF ANDREW NIIKONDO**

(DEPUTY VICE-CHANCELLOR: TEACHING, LEARNING AND TECHNOLOGY) Dip (Public Admin), BTech (Public Mgt), MA (Public Admin), PhD

(Public Admin)

#### **PROF COLIN STANLEY**

(ACTING DEPUTY VICE-CHANCELLOR: RESEARCH, INNOVATION AND PARTNERSHIPS) ND (Software Eng), BTech Hons (Software Dev), MSc (Comp Sci), PhD (Comp Sci)

### PROF SIFISO NYATHI

BA, PGDE, BJuris, LLB, MEd, PhD (Reading and Curriculum Studies), JTC (Namibia Board of Legal Education)

#### PROF PILISANO MASAKE

SENATE REPRESENTATIVE PGCert (Higher Edu); PGD (Procure Mgt); B-Juris; LLB ; MPolicing Practice; LLM; Doctor of Law; PhD Criminal Justice; JTC, Admitted Legal Practitioner; MBA (candidate); PhD

STAFF REPRESENTATIVE: ACADEMIC Vacant

#### MR MATCHWELL LIZAZI

STAFF REPRESENTATIVE: ADMINISTRATIVE Cert (Mid-Level Mgt); NDip; BBA; BBA Hons; PGD Mgt

#### **MR SHOKI SIVUTE KANDJIMI**

ALUMNI REPRESENTATIVE

BJMT; BComm (Hons); PGD Mgt

#### **MR MICHEE MASENGO**

SRC PRESIDENT BTech (Mech Eng)

# **EXECUTIVE DEANS OF FACULTIES**

#### FACULTY OF COMMERCE, HUMAN SCIENCES AND EDUCATION (FCHSE)

#### **PROF EFIGENIA SEMENTE**

Cert (Innovation and Strategic Bus Mgt), Cert (First Aider), Dipl (Secretarial), Dipl (Marketing), BTech (Marketing), PGCert (Higher Edu), PGCert (Marketing), MSc (Marketing), MBA, PhD (Bus Admin)

#### FACULTY OF COMPUTING AND **INFORMATICS (FCI)**

#### **PROF FUNGAI BHUNU SHAVA (ACTING)**

BSc (Comp Sci & Maths), PGCHE, MSc (Comp Sci), PhD (IT)

#### FACULTY OF ENGINEERING AND THE **BUILT ENVIRONMENT (FEBE)**

**PROF HARMONY MUSIYARIRA** BSc Hons (Met Eng), MSc (Eng), PhD (Eng)

#### FACULTY OF HEALTH, NATURAL **RESOURCES AND APPLIED SCIENCES** (FHNRAS)

#### **DR ONESMUS SHUUNGULA**

BSc (Maths & Stats), BSc Hons (Maths), MSc (Maths), PhD (Maths)













### PROGRAMME

Date: Friday, 09 May 2025 Time: 08:00 Venue: Mercure Hotel

Presiding Hon Prof Peter Katjavivi Chancellor

Director of Ceremonies Ms Kuda Brandt Manager: Corporate Communications and Marketing

#### National and AU Anthems

Prayer

Constitution of the Congregation

Welcome Remarks

Statement

Interlude

**Keynote Address** 

Interlude

**Conferment of Qualifications** 

**Presentation of Candidates** 

Interlude Confirmation of Conferred Qualifications Vote of Thanks

Dissolution of the Congregation AU and National Anthems Interlude **Mr Valentine Nel** Manager: Finance and Operations, HP-GSB

#### Chancellor

**Prof Erold Naomab** Vice-Chancellor

**Dr Leake Hangala** Chairperson of the Interim Council

**Hon Prof Peter Katjavivi** NUST Chancellor

#### Chancellor

**Prof Fungai Bhunu Shava** Acting Executive Dean: Faculty of Computing and Informatics

**Prof Harmony Musiyarira** Executive Dean: Faculty of Engineering and the Built Environment

**Dr Onesmus Shuungula** Executive Dean: Faculty of Health, Natural Resources and Applied Sciences

NUST Choir

Chancellor

Mr Michee Masengo SRC President

Chancellor



# PROCEEDINGS DURING THE CEREMONY

The Director of Ceremonies will direct the proceedings.

- 1. Candidates and guests must be **seated by 07:00.**
- 2. Gaudeamus Igitur song starts to play, the Academic Procession will enter the hall and the Congregation will rise and remain standing until directed by the Director of Ceremonies to be seated.
- 3. The Chancellor will constitute the congregation while the congregation is standing, and will also confer the qualifications.
- 4. The Executive Deans will present the candidates and those receiving National Diplomas and Degrees will rise at their seats and be honoured with their qualifications.
- 5. Awards will be conferred in absentia on those unable to attend the Ceremony.
- 6. The Chancellor will dissolve the Ceremony, and the Congregation will rise, and remain standing until the Academic Procession has left the hall.
- 7. Unauthorised photographs may not be taken.
- 8. All mobile telephones must be switched off or put on silent mode.
- 9. Whistles and other noise-amplifying instruments may not be used.



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# HIGHER DEGREES AND POSTGRADUATE QUALIFICATIONS







#### 1. DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE (NQF: 10)

#### DONGO Takawira T

Thesis:	The Development of a Natural Language Processing System for		
	Paedophile Profiling Use in Child Online Protection		
Supervisor:	Prof Attlee Munyaradzi Gamundani		
Co-Supervisor:	Prof Mercy Chitauro		



#### ABSTRACT

ICT is increasing, with social media becoming vital for communication. Social media platforms like Facebook are linked to crime in countries like Namibia and globally. The use of these applications presents both benefits and risks, such as cyberbullying, grooming, and child sexual abuse. Technological advancements demand solutions that prioritise children's rights and online protection.

A pragmatic research approach was adopted, employing mixed methods to develop a Natural Language Processing (NLP) system for paedophile profiling in child online protection. Qualitative methods, including thematic analysis, were utilised to identify language patterns used by online offenders. Quantitative content analysis and NLP techniques supported system development.

To address this pressing issue, literature on digitalisation and online abuse is essential. Key research gaps remain, including paedophile profiling, regulatory frameworks, emerging technologies, impact assessments, preventive efforts, and underreporting.

An Al-driven, context-aware NLP profiling system tailored for online child protection in Africa is required. This system improves accuracy and reduces false positives, moving beyond static keyword matching. The study also highlights the need for a multidisciplinary strategy that integrates technology and provides policy guidance for parents, teachers, and law enforcement.

#### **Major Contribution**:

Through the following deliverables, this research work adds to the body of knowledge:

- The project's primary result is the creation of an NLP system for paedophile profiling's application in child internet safety.
- Analysing the terms used by paedophiles when interacting with children online through social media, evaluating tools
  for profiling paedophile online activities, and investigating how NLP techniques may be used on social media sites to
  profile potential paedophiles.
- The study aids in the development of a knowledge bank by helping to find common keywords that would be used to
  classify text and by pointing out a gap in the existing trends about the communication phrases that paedophiles use,
  which were mentioned at the study sites.
- The deliverables from peer review conferences included at least one scientific publication that was appraised. Every significant advancement indicator of the research's discoveries and innovations has been marked.



#### KANYAMA Maria N

Thesis:

Developing a Lightweight Blockchain Ensemble Machine Learning Anomaly Detection Model for Smart Water Metering Networks (SWMNs) Supervisor: Prof Fungai Bhunu Shava Co-Supervisor: Prof Attlee Munyaradzi Gamundani **Co-Supervisor:** Prof Andreas Hartmann



#### ABSTRACT

Namibia, one of the driest countries in Sub-Saharan Africa, receives an average annual rainfall of just 270 millimetres. Yet, traditional water metering systems remain inefficient and poorly digitized, contributing to high levels of unaccountedfor water and losses in already water-scarce communities. This research addresses that national challenge by introducing a digitally transformative solution that merges artificial intelligence, machine learning, and lightweight blockchain to advance the country's water conservation efforts. The study presents an anomaly detection model for Smart Water Metering Networks, grounded in Namibian realities and scalable to other resource-constrained environments.

The first part of this thesis involved a systematic literature review (SLR) to explore the state-of-the-art in ML-based anomaly detection methods for SWMNs. This review identified key algorithms such as k-Nearest Neighbors (kNN), Support Vector Machine (SVM), Autoencoder, Decision Trees (DT), and Random Forest (RF), alongside the performance metrics needed to evaluate these models. Additionally, the study explored the potential of blockchain technology to secure SWMNs, highlighting its ability to ensure trustworthiness and resilience against cyber-attacks. This foundational work has been published in both conferences and journals, contributing to the broader academic dialogue.

The core contribution of this thesis lies in the development of a lightweight blockchain ensemble ML anomaly detection model tailored for SWMNs. Given the limitations of real-world datasets, data augmentation techniques-Cubic Spline and Piecewise Cubic Hermite Interpolating Polynomial (PCHIP) interpolation—were employed, with PCHIP outperforming Cubic Spline in terms of Mean Absolute Error (MAE), Root Mean Square Error (RMSE) and Mean Absolute Percentage Error (MAPE). This research also tackled the challenge of labeling data by employing a Long Short-Term Memory Autoencoder (LSTM-AE) to reconstruct and label normal water consumption patterns. The LSTM-AE model, featuring an encoder with 512 and 256 LSTM units and a learning rate of 0.01, effectively captured complex water usage behaviors.

Further research involved training various ML classifiers (SVM, kNN, RF, DT) to detect anomalies, with SMOTEENN proving particularly effective in managing class imbalance. Key performance metrics including precision, recall, F1 score, ROC-AUC, and confusion matrices were used to evaluate the models. While RF, DT, and k-NN performed strongly, SVM exhibited comparatively lower results. To enhance accuracy, ensemble methods such as stacking and soft/hard voting were implemented, with soft voting achieving a perfect score of 99%. The integration of the IOTA distributed ledger strengthened the security of the ML models, demonstrating promising results for SWMNs.

This research not only advances the field of anomaly detection through the accuracy, robustness, and efficiency of ML models but also underscores the importance of securing these models against integrity attacks using blockchain technology. Although significant work has been done in developing and deploying SWMNs, there remains a gap in secure ML models for detecting anomalies. This thesis addresses that gap by providing a comprehensive SLR and developing a lightweight blockchain ensemble ML anomaly detection model. The findings are expected to significantly contribute to the global adoption of SWMNs, promoting innovation and technological advancement in smart cities, in line with SDG 9, which advocates for innovation and technology development in developing countries like Namibia.

Using six years of monthly water consumption data from 1,375 households in Town A, Windhoek, the study introduces several key contributions and their anticipated impacts on Namibia's current water management landscape and beyond.

#### **Major contributions:**

- 1. The development of a secure lightweight blockchain ensemble machine learning framework responds to the lack of intelligence and vulnerability in current metering infrastructure. By offering a decentralized, tamper-proof, and low-energy solution secured through IOTA Tangle, the research provides a pathway toward reliable, corruption-resistant monitoring systems across the globe.
- This study applies PCHIP and Cubic Spline interpolation to convert monthly water readings into daily estimates. It 2. allows municipalities to generate near real-time insights from existing meters, providing a cost-effective alternative to smart meter installation.
- The use of an LSTM-Autoencoder to automate the labeling of normal and abnormal consumption patterns removes 3. the dependency on manual, expert-driven labeling. This opens up AI-powered analysis to local authorities and utilities that may not have data science expertise in-house.
- By comparing multiple machine learning models, including Support Vector Machine, Decision Tree, Random Forest, 4. and k-Nearest Neighbors, the research identifies ensemble soft voting as the highest-performing technique with a 99 percent F1 score. This provides a data-backed recommendation for model selection and implementation in real-world deployments.



- 5. The integration of the IOTA distributed ledger enhances trust, transparency, and security in the anomaly detection process. This ensures not only data integrity but also builds public confidence in the fairness and accuracy of billing systems, particularly in underserved and informal settlements.
- 6. A systematic literature review highlights the limited uptake of AI and blockchain in water metering systems across the Global South. This review serves as a call to action for policymakers, researchers, and development partners to expand digital water innovation in Namibia and similar contexts.
- 7. The research aligns with and supports Sustainable Development Goal 6 on clean water and sanitation, and Goal 9 on industry, innovation, and infrastructure. It demonstrates how emerging technologies can be purposefully applied to achieve practical impact in local governance and sustainable development.

This body of work has resulted in six academic outputs, including three peer-reviewed journal articles and three accepted conference papers. These publications amplify the scientific value of the study while positioning AI and blockchain innovation as critical tools in addressing water security challenges both locally and globally. The research outputs also serve as policy-informing resources and academic references for national curriculum development and institutional collaboration in Namibia and beyond.

#### **MUKUMBIRA** Sebastian

Thesis:	Participatory GIS with the Ovahimba Communities to Support Joint Ecosystem Management
Supervisor:	Prof Heike Winschiers-Theophilus
Co-Supervisor:	Prof Vera De Cauwer



#### ABSTRACT

The sustainable ecosystem management of large trans-frontier conservation areas [TFCA], like the lona-Skeleton Coast TFCA of Angola and Namibia, requires well-informed decision-making processes. Following a community-based conservation management approach, a participatory Geographic Information Systems (PGIS) integrating the input from all stakeholders has the potential to improve decision making. Advances in Information and Communication Technologies (ICT) have seen an increase in the contribution of heterogenous spatial data by members of communities. For the output of a PGIS to be meaningful, consistent and useful, the data fed into the system must be accurate. However, the conceptualisation of accuracy varies across diverse stakeholders and epistemologies, as well as the expectations of data use and presentations. Considering indigenous knowledge systems and in particular distinct ways of knowing of Ovahimba community members, invites a different design of data collection applications and digital representations of data. Framed in Afrocentrism and Ubuntu, this study employed a community-based co-design approach to participatory mapping sessions, ethnobotanical walks and focus group discussions to interrogate the perception of data accuracy amongst the various sources of data as well as the representation of indigenous knowledge. Two digital data collection applications and a data-sharing portal were co-developed with the Ovahimba, enriching existing decision-making for sustainable ecosystem management.

#### **Major Contribution:**

This research work contributes to existing knowledge through the following deliverables:

- Bridging the gap between indigenous perspectives and scientific methodologies through the integration of indigenous knowledge into the development of geographical information systems (GIS) for the purpose of joint ecosystem management.
- 2. The study contributes to methodology by highlighting the role of culturally sensitive methodologies in data collection, map making, and ecosystem management through adopting a Community-Based Co-Design approach, framed in Ubuntu and Afrocentricity.
- 3. It proposes methods to reconcile divergent 'data accuracy' perceptions among different stakeholders, including researchers and indigenous communities to enhance data usability and reliability in decision-making processes.
- 4. The study contributes to the design of new data collection tools and platforms that respect and incorporate indigenous views, thereby expanding the scope of participatory GIS in scientific research and practice.



# 1

#### 2. DOCTOR OF PHILOSOPHY IN INFORMATICS (NQF: 10)

#### HAITULA Iyaloo N

Thesis:	A Framework for Cybersecurity Policy Implementation and Compliance for Organisations in Namibia
Supervisor:	Prof Jude Osakwe
Co-Supervisor:	Prof Ambrose Azeta



#### ABSTRACT

This study addresses the critical issue of inadequate cybersecurity strategies and practices among Namibian organisations, which leaves them vulnerable to cyberattacks. The primary objective is to develop a framework for effective cybersecurity policy implementation and compliance tailored for these organisations. Guided by the Protection Motivation Theory (PMT) and the Theory of Planned Behaviour (TPB), the study predicts the intentions of policymakers and IT management regarding policy implementation, as well as staff compliance. Employing a qualitative approach within the Design Science Research (DSR) framework, data were collected from business organisations in Windhoek through semi-structured interviews, focus groups, and document analysis. A Strength, Weakness, Opportunity, Threat (SWOT) analysis was conducted for each organisation to gain insights into their IT governance practices in addressing cybersecurity threats. The study identifies prevailing IT governance practices, impediments to effective policy implementation, and strategies employed by IT leaders. The findings reveal a commitment to cybersecurity through policies aligned with international standards; however, organisations encounter significant barriers to effective policy enforcement. Consequently, a comprehensive Cybersecurity Policy Implementation and Compliance (CSPIC) framework, was developed and evaluated by industry experts using the Delphi technique. It received a "Good" rating (2) particularly with strengths in its clear action plans and comprehensive policy development. The study contributes valuable insights into the cybersecurity landscape in Namibia, offering a structured approach for organisations to navigate the complexities of policy implementation and compliance. This study further suggests that building a cybersecurity culture within organisations is essential to mitigate CSPIC challenges and ensure the effective implementation of cybersecurity policies, thereby enhancing organisational resilience against cyber threats.

#### 3. MASTER OF COMPUTER SCIENCE (NQF: 9)

1.	IINDOMBO Sakaria	<b>Thesis:</b> Designing a Blockchain Layer in Smart Grid Edge IoT Devices to Enhance Data Security <b>Supervisor:</b> Prof Mercy Chitauro
2.	IIPUMBU Ericky	Thesis: Design of a Model for Augmenting Digital Forensics into Information System Audit in the Financial Sector Supervisor: Mr Isaac Nhamu Co-Supervisor: Prof Mercy Chitauro

#### 4. MASTER OF DATA SCIENCE (NQF: 9)

1.	ANYALA Dorian	<b>Thesis:</b> Application of Machine Learning and Statistical Models in Mitigation Climate Change Effects for Subsistence Farming: A Case Study for North Namibia <b>Supervisor:</b> Prof Samuel Akinsola
2.	KIIGA Angula T	<b>Thesis:</b> Leveraging Machine Learning for Enhanced Efficiency in Mineral Processing Through Silica Estimation at Rosh Pinah Zinc Mine <b>Supervisor:</b> Dr Richard Maliwatu
3.	MAIKHUDUMU Shaka	<b>Thesis:</b> Using a Machine Learning Model to Determine the Best Self-Care Behaviour during Pregnancy <b>Supervisor:</b> Prof Gloria Iyawa
4.	NAMBAHU Ndakalako D T	<b>Thesis</b> : Hybrid Approach for Electricity Demand Forecasting for the City of Windhoek <b>Supervisor:</b> Dr Richard Maliwatu
5.	NANTINDA Teopolina	<b>Thesis:</b> A Comparative Study of Machine Learning Models Application for Stroke Risks and Post-Stroke Health Outcomes Predictions <b>Supervisor:</b> Prof Attlee M Gamundani <b>Co-Supervisor:</b> Ms Maria Kanyama

б.	NANGOLO Marthina	Thesis: Application of Machine Learning in the Classification of HIV Medical Care Status for PLHIV in Oshana Region, Namibia Supervisor: Prof Guy-Alain Lusilao Zodi Co-Supervisor: Dr R Mahalir Co-Supervisor: Ms Jovita Mateus
7.	NDJENE Julia	<b>Thesis:</b> Leveraging Machine Learning-Based Techniques for Detecting and Predicting the Likelihood of Diabetes in Polycystic Ovary Syndrome Victims <b>Supervisor:</b> Prof Attlee M Gamundani <b>Co-Supervisor:</b> Ms Maria Kanyama
8.	NGOLO Maria K	<b>Thesis:</b> A Machine Learning-Driven Approach for Accident Prediction and Traffic Safety Analysis in Namibia <b>Supervisor:</b> Dr Richard Maliwatu
9.	PAAVO Johannes P	<b>Thesis:</b> Automated Fraud Detection in Namibia's Public Institutions' Financial Transactions using Machine Learning: A Deep learning Approach <b>Supervisor:</b> Dr Richard Maliwatu <b>Co-Supervisor:</b> Prof Rafael Rodriguez-Puentes

#### **MASTER OF INFORMATICS (NQF: 9)** 5.

1.	HAMUNYELA Lydia T K	<b>Thesis:</b> Designing a Digital Governance Framework for a Public Enterprise - A Case of the Motor Vehicle Accident Fund <b>Supervisor:</b> Prof Suama Hamunyela
2.	MUNASHIMWE Tueufilwa M	<b>Thesis:</b> Developing a Mobile Government (M-Government) Framework to Support Government Services in Namibia <b>Supervisor:</b> Prof Gloria Iyawa
3.	<b>NELONGO</b> Lovisa J	Thesis: Designing a Digital Solution to Promote Awareness of the Negative Impacts of Child Marriage in Namibia Supervisor: Prof Gloria Iyawa

#### MASTER OF JOURNALISM AND MEDIA TECHNOLOGY (NQF: 9) б.

1.	RAJAH Claudette N	<b>Thesis:</b> A Discourse Analysis of Citizen Engagement with Political Messages by Selected Politicians on Twitter Ahead of Zimbabwe's 2023 Elections <b>Supervisor:</b> Dr Phillip Santos
2.	SAKARIA Ipumbu E	<b>Thesis:</b> A Content Analysis of the 2019 Presidential and 2020 Regional and Local Authority Elections Coverage by Selected Newspapers in Namibia <b>Supervisor:</b> Dr Phillip Santos

#### **POSTGRADUATE CERTIFICATE IN INFORMATICS: INFORMATION SYSTEMS AUDIT (NQF: 8)** 7.

1	1.	ADOLF Iyaloo T	2.	LIMAN Brenda M
3	3.	AMUKWAYA Simester F	4.	AMUNYELA Elizabeth N
Ę	5.	APOLLUS Florentina J	6.	BOK Galita G
7	7.	DAWID Onesmus N	8.	HAIKALI Haikali
9	9.	HENDJALA Shali M	10.	HOMATENI Elifas S
1	11.	KATJINGISIUA Linda U	12.	LIKUKELA Advance G
1	13.	MOSES Jenny N	14.	MUPOLO Daniel H
1	15.	MURANGI Jariretundu	16.	NAMWAPO Peneyambeko
1	17.	NGHIIKI Elias M	18.	NORICH Warren
1	19.	SHAETONODI Jackson P	20.	SHEEFENI Feni
2	21.	SHIKOMBA Lilie N	22.	SHIKONGO Rebbeka M
2	23.	SHIKONGO Selma	24.	VAN WYK Alisa J



8.	BACHELOR OF COMPUTER SCIENCE HONOURS: COMMUNICATION NETWORKS (NQF: 8)			
	1.	AMON Ellen E	2.	AMUTENYA Sakaria S T
	3.	CAQUIAMBE Cecilia C	4.	IPINGE Autti T
	5.	KALIMBO Andreas N	б.	KAULINGE Jones N
	7.	KENDA Jonathan (CUM LAUDE)	8.	NAMPINDI Matheus N W
	9.	NASHIKU Matti A	10.	NKUWU Jessy
9.	BAC	HELOR OF COMPUTER SCIENCE HONOUR	S: DIGITA	L FORENSICS (NOF: 8)
	1.	AUGUSTUS Amalia M (CUMLAUDE)	2.	KATUPOSE Inlie N
	3.	MAOUITA Bernardino R (CUMLAUDE)	4.	MBOUMA Okana U
	5.	MUDABETI Simayumbulwa A	6.	MUHARUKUA Tiitiiri R
	7.	MUHEKENI Simon N	8.	MUKADI Chris N
	9.	MUNWELA Sibeso R N	10.	MUTUNDA Andreas N
	11.	NAMBOGA Helena N	12.	THOMAS Chris I S
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	9.	LIKUWA Lhristopher M	10.	LOUW Julian A (CUM LAUDE)
	11.	MASIYE Mubiana D	12.	MUKETE Leonard N
	13.	MUTILIFA Simeon	14.	NAKUUMBA Jesaya S O
	15.	NEGONGO George	16.	PETRUS Immanuel I D
	17.	SCHUBERT Michael	18.	SHIKONGO Minefield T
	19.	SHILONGO David A 1	20.	SHIVUTE Eunice
	21.	THOBIAS Lusia M		
11.	. BACHELOR OF COMPUTER SCIENCE HONOURS: SOFTWARE DEVELOPMENT (NQF: 8)			
	1.	AUALA Selma N O	2.	BEUKES Franco R
	3.	BHUNU SHAVA Marlven N	4.	CLOETE Reime J
	5.	DAMIAO Jimmy S	б.	DANIEL Varde S
	7.	GERTZE Revaldo	8.	GUIOB Cassius H
	9.	HAIHAMBO Erastus S	10.	HAMMERSLAGT Ruguillio N
	11.	KAINE Manyando	12.	KANDOMBO Ernst N Q
	13.	KARAMATA Rikurora T	14.	KAULINGE Johnson H
	15.	KAUNDJE Metaramuje	16.	LUZOLO Joao J
	17.	MATHEUS Erastus T	18.	MUHULUMA Jerioth C
	19.	MUKAMANA Angeline	20.	MUSENGE Joseph
	21.	NATANAEL Mateus	22.	NAUYOMA Petrus N
	23.	NDJAO Laurinda N	24.	NDJAVERA Vetumbuavi
	25.	NEHOYA Rantameki A T	26.	NGUNO Vilho
	27.	NKUSI Shania	28.	PELEMA Abraham A N
	29.	PHULU Shwele G	30.	SHIFIDI Metumo N
	31.	SOABES Michaella L G	32.	THOBIAS Carmen M M
	33.	TOMANGA Naaninge S	34.	VAN NIEKERK Keith C
	35.	ZAU Edilson D B (CUM LAUDE)		



12.	2. BACHELOR OF INFORMATICS HONOURS: BUSINESS INFORMATICS (NQF: 8)				
	1.	AMUTENYA Rejoice I N	2.	ANTINDI Paulus T	
	3.	CHIZABULYO Charline S	4.	IMMANUELE Johannes N	
	5.	JOHN Ebba P	б.	JONAS Toini T	
	7.	JUNIAS Wiliko K	8.	KANDJII Mutengua D T	
	9.	KAURIMUJE Vetara	10.	LENGA Rachel	
	11.	MAJOOKA Mesutuje	12.	MUGANDIWA Andrew T	
	13.	MUTI Aaron M	14.	MWANYANGAPO Ndeshimona R	
	15.	NELIWA Haitange N	16.	NSABIMANA Jean C	
	17.	NUULE Dietilde M N	18.	OMALU Obiora K	
	19.	PENAVALI Patrick E	20.	PINTO Joseph O E	
	21.	PINTO Nelly N	22.	SAPALO Calvin N	
	23.	SHIHEPO Walter T	24.	SHILOMBOLENI Roosa	
	25.	TOMAS Joseph	26.	UPENDURA Lucia U	

#### 13. BACHELOR OF JOURNALISM AND MEDIA TECHNOLOGY HONOURS (NQF: 8) HARRIS Lawrence A

### NOTES



#### 1. DOCTOR OF PHILOSOPHY IN ENGINEERING (NQF: 10)

#### CHIKURUWO Mary N H

Thesis:	Developing an Intelligent Prognostic and Health Management System for Underground Water Pipes
Supervisor:	Prof Samuel John
Co-Supervisor:	Prof Michael Mutingi



#### Abstract

This research addresses the challenges urban water infrastructure faces in managing increasing demand, particularly due to undetected leaks in underground pipelines. Traditional leak detection methods are costly and often inaccurate. This research focuses on developing a data-driven mathematical model for predicting the remaining useful life (RUL) of underground water pipes and creating a wireless sensor node for real-time leak detection. The sensor node transmits data wirelessly to an above-ground base station, allowing for informed decision-making regarding maintenance strategies. The research's primary objectives included designing a mathematical model to predict the RUL of water pipes, creating a sensor node to detect leaks within the pipes, and developing a placement algorithm for attaching and detaching the sensor node. This design allows for continuous monitoring of pipeline health, facilitating timely and efficient maintenance. Literature was reviewed on various topics regarding leak detection, including artificial intelligence techniques such as artificial neural networks, genetic algorithms, and fuzzy logic. Design of Experiments (DOE) and Response Surface Methodology (RSM) were used to fine-tune the model's accuracy. The result is a smart device capable of detecting leaks and a decision-making tool to manage pipeline health. The research emphasizes the importance of collaboration between industry, government, and academia to create innovative solutions for water infrastructure management. While the study shows promise, real-world testing and further integration of artificial intelligence could enhance the forecasting model's precision. By incorporating these advancements, urban water management can be significantly improved, ensuring sustainable and efficient water supply systems in the face of increasing urbanization.

#### 2. MASTER OF ARCHITECTURE (NQF: 9)

1.	BEZUIDENHOUT Eduard	<b>Thesis:</b> Acquainting Embedded Elemental Wisdom of Omaheke's Sandveld into a Namibian Nature Foundation Knowledge Exchange Centre <b>Supervisor:</b> Dr Madelein Stoffberg <b>Co-Supervisor:</b> Prof Jaco Wasserfall
2.	KANELOMBE Dominica	Thesis: Waiting in Outapi- Exploring Spatial Dynamics on the Outapi Main Road: Providing Spaces of Pause, Connection and Exchange <b>Supervisor:</b> Prof Jaco Wasserfall <b>Co-Supervisor:</b> Dr Madelein Stoffberg
3.	MENYAH-ARTIVOR Fredrick K Y	Thesis: Transformation of Spaces in Abandoned Buildings for Skill Development, Collaboration and Growth: A Case of the House of Cohen on Independence Avenue, Windhoek Supervisor: Prof Jaco Wasserfall Co-Supervisor: Dr Madelein Stoffberg
4.	VAN RENSBURG Jacques	Thesis: Juxtaposing Knowledge + Making: Decolonising Stagnant Museum Typologies into Dynamic Cultural Representation along the Swakopmund Promenade, Namibia <b>Supervisor:</b> Dr Madelein Stoffberg <b>Co-Supervisor:</b> Prof Jaco Wasserfall
5.	VISAGIE Gert	Thesis: Mining the Poetic Depths of an Industrial Landscape: Automating a Fish Market Narrating Trawling along the Lagoon Promenade of Walvis Bay <b>Supervisor:</b> Dr Madelein Stoffberg <b>Co-Supervisor:</b> Prof Jaco Wasserfall
6.	VISSER Minette	Thesis: Mechanical Fouettè Choreographing Spatial Segmentation: Dancing Glimpses of Adaptation on Tal <b>Supervisor:</b> Dr Madelein Stoffberg <b>Co-Supervisor:</b> Prof Jaco Wasserfall



#### 2. MASTER OF INTERGRATED WATER RESOURCES MANAGEMENT (NQF: 9)

1.	KALILI Selma N	<b>Thesis:</b> Seasonal and Spatio-Temporal Trends Of Nutrients and Heavy Metals Contamination in Surface Water of The Lower Orange River Sub-Basin, Namibia <b>Supervisor:</b> Mr Andrea Vushe <b>Co-Supervisor:</b> Ms Elise Mbanka
2.	<b>UARIJE</b> Uautua U	<b>Thesis:</b> Analysing the Water Quality and its Effects on Human Health in Karibib, Namibia <b>Sunervisor:</b> Prof Percy Chimwamuromhe

#### 3. MASTER OF ENVIRONMENTAL ENGINEERING (NQF: 9)

1.	JAKOB Laolange E	<b>Thesis:</b> Analysing Rainfall Trends and Variability in Namibia: A Comprehensive Study of the Period 2010-2023 <b>Supervisor:</b> Dr Busari Afis Olumide <b>Co-Supervisor:</b> Ms Liina Mutilifa
2.	MHATA Namwenyo F	<b>Thesis:</b> Assessment of the Techno-Economic Feasibility of Wind and Solar Power Supply Plants for Phase 1.3A of the Ongos Valley Development Area Near Windhoek City <b>Supervisor:</b> Prof James Katende
3.	NANDJEMBO Selma N N	<b>Thesis:</b> Evaluating the Potential Impacts of Decarbonisation Initiatives in the Mining Industry: A Case of Namdeb in Oranjemund, Namibia <b>Supervisor:</b> Prof Mallikarjun Pillalamarry <b>Co-Supervisor:</b> Mr Johan Rademan

#### 4. MASTER OF INDUSTRIAL ENGINEERING (NQF: 9)

1.	ANGULA Angula	Thesis: Developing an Agile Total Maintenance Framework: Case of Coastal Infrastructure Terminals, Namibia Supervisor: Prof Michael Mutingi Co-Supervisor: Dr Veikko Shalimba
2.	<b>BRITZ</b> Patrick J	<b>Thesis:</b> Developing Strategies for Continuous Improvement in a Project-Based Organisation: A Case Study of PowerCom (PTY) LTD, Namibia <b>Supervisor:</b> Prof Michael Mutingi <b>Co-Supervisor:</b> Dr Maduako Okorie
3.	MAFALI Gift M	Thesis: Load Flow Modelling and Performance Analysis of NORED's Distribution Network in Ongwediva, Namibia Supervisor: Dr Dickson Chembe Co-Supervisor: Dr Michael Sony Co-Supervisor: Dr Francis Smita
4.	MOYO Mathias N	<b>Thesis:</b> Assessing the Adoption of Energy Optimisation Models for Grid Stability and Renewable Energy Integration in Namibia <b>Supervisor:</b> Prof Michael Mutingi
5.	NDLOVU Benaiah P	<b>Thesis:</b> Comprehensive Analysis of Policy-Induced Bottlenecks in Namibia's Electricity Generation <b>Supervisor:</b> Prof Michael Mutingi <b>Co-Supervisor:</b> Dr Smita Francis
6.	SHIKULO David M	<b>Thesis:</b> Assessing the Impact of Lean Six Sigma on Productivity in the Garment Industry: Case of Dinapama Manufacturing and Supplies, Namibia <b>Supervisor:</b> Dr Michael Sony <b>Co-Supervisor:</b> Ms Hileni Kandjeke



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5. MASTER OF SUSTAINABLE ENERGY SYSTEMS (NQF:	9)
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1.	HENOCK Ndatelela	Thesis: An In-Depth Analysis of Transitioning Windhoek Municipal Bus Fleet from Diesel to Hydrogen Fuel: A Socio-Economic Comparative Study Supervisor: Prof Walter Czarrnetzki Co-Supervisor: Mr Candidus Tomeka Co-Supervisor: Mr Abraham Hangula
2.	HIDIMOKANYAA Michael	Thesis: Analysis of Proton Exchange Membrane Electrolysers (PEM-EL) used in Hydrogen Production Plant Supervisor: Dr Thabo Falayi Co-Supervisor: Prof Walter Czarrnetzki Co-Supersivor: Dr Hamid Jahanfar
3.	IYAMBO Marina N	<b>Thesis:</b> Performance and Electrochemical Analysis of Proton Exchange Membrane Fuel Cells With Catalyst-Coated Membranes <b>Supervisor:</b> Prof Dipti Ranjan Sahu <b>Co-Supervisor:</b> Ms Siddiqui Humera Khatoon
4.	JERRY Robard	<b>Thesis:</b> Investigation of Harmonics in Grid-tied Renewable Energy Systems: A Case Study for Keetmanshoop, Namibia <b>Supervisor:</b> Prof James Katende
5.	KABUBA Namukokoba	<b>Thesis:</b> Energy Audit and Management in Underground Mines: A Case Study of Rosh Pinah Zinc Mine in Namibia <b>Supervisor:</b> Prof James Katende <b>Co-Supervisor:</b> Mr Tshivute lipinge
6.	KATHINDI Festus T	Thesis: Marketing Strategies for Green Hydrogen Sustainability: A Consumption Behavioral Analysis Supervisor: Prof Efigenia Semente Co-Supervisor: Mr Simon Nigel
7.	KWEDHI Sindano M	<b>Thesis:</b> Assessing the Potential Socio-Economic Sustainability Effects of Green Hydrogen Production on Local Communities: A Case Study of Lüderitz, Namibia <b>Supervisor:</b> Dr Vusumuzi Sibanda <b>Co-Supervisor:</b> Dr Garnet Kasperk
8.	ILUKENA Dysons N	<b>Thesis:</b> Investigation into Hydrogen Storage Methods and Infrastructure Analysis of Fueling Stations <b>Supervisor:</b> Prof Dipti Ranjan Sahu <b>Co-Supervisor:</b> Prof Walter Czarrnetzki
9.	MBUENDE Vendjizuva	<b>Thesis:</b> Synthesis of PEM CCMs with Alternative Materials <b>Supervisor:</b> Prof Dipti Ranjan Sahu <b>Co-Supervisor:</b> Prof Ralf Worner <b>Co-Supervisor:</b> Dr Sandra Temmel
10.	MUSHILI Hilma N T	<b>Thesis:</b> Techno-Economic Analysis of Wind Energy for Green Hydrogen Produc- tion in Namibia <b>Supervisor:</b> Dr Maduako Okorie <b>Co-Supervisor:</b> Prof James Katende
11.	SET Monica N S	<b>Thesis:</b> Evaluating the Impact of Advanced Metering Infrastructure and Renew- able Energy Integration on The City of Windhoek's Energy System <b>Supervisor:</b> Prof James Katende
12.	<b>UUTONI</b> Taimi K	Thesis: Analysis of Transition from Internal Combustion Engine Buses to Electric Buses: A Case Study for City Windhoek Supervisor: Prof Sastry Musti Co-Supervisor: Ms Hilde Amushembe

#### MASTER OF SPATIAL SCIENCE (NQF: 9) б.

1.	ANGULA Fenny N	Thesis: The Influence of Small and Intermediate Urban Centres in Constituency
		Development: A Case Study of Onyaanya Centre, Oshikoto Region, Namibia.
		Supervisor: Dr Laudika Kandjinga

**NAMIBIA UNIVERSITY** OF SCIENCE AND TECHNOLOGY



7.	BA	CHELOR OF ARCHITECTURE HONOURS (NO	QF: 8)	
	1.	ADOLF Josefina L N	2.	ANDIMBA Ruben L
	3.	DUBE Methembe S	4.	EKANDJO Christofina N
	5.	GEISES Soneritha D	6.	HAINDONGO Peyasha E W
	7.	JOAS Shakira K	8.	KAHUURE Faith N N
	9.	KATJIVENA Uetupanao	10.	KAZADI Ignace W M
	11.	MANG'ANYA Makhali	12.	MUTOBAYA Energy
	13.	NGHIITETE Joyce	14.	O'FARRILL CREACH Agular
	15.	PFENDE Takudzwa S D	16.	TITUS Jenielle
8.	BAC	HELOR OF LAND ADMINISTRATION HONO	URS (NQF	: 8]
	1.	AUSIKU Oiva H	2.	DAVID Tugamena A (CUM LAUDE)
	3.	HAMUNYELA Hendrina N	4.	IYAMBO Beatha F
	5.	KAWIWA Nadine N	6.	KEFAS Natsaantu E
	7.	MASIZIANI Matengu T	8.	MOSES Sylvanus
	9.	NGHIFIKWA Immanuel O	10.	RIBEBE Lorinda K
	11.	RUKORO Raurovandu	12.	SHAANIKA Mathews K
	13.	SHIKONGO Aune N A (CUM LAUDE)	14.	SHILONGO Boicky H
	15.	UUSIKU Betuel P		
9.	BAC	HELOR OF QUANTITY SURVEYING HONOL	JRS (NQF:	8]
	1.	IIPINGE Dominicus I	2.	KANDJABANGA Ndemwoongela T T
	3.	KAUPA Rehema V	4.	KIIMBA Wayne P S
	5.	LIKORO Josef K N	б.	MATARANYIKA Tinodiwanashe N
	7.	NARUSES René R		
10.	BA	CHELOR OF REGIONAL AND RURAL DEVEL	OPMENT	HONOURS (NQF: 8)
	1.	HAUDIU Elikan M	2.	HAUFIKU Natangwe T
	3.	KAYAMBU Namutenya S	4.	NGHITEEKA Yapeni T D
	5.	NYAU Frieda I N	б.	SIYAMBA Martha M N
11.	BAC	HELOR OF URBAN AND REGIONAL PLANN	IING HON	DURS (NQF: 8)
	1.	ADOLF Twanyanyukwa T	2.	ALBERTO Edson
	З.	AMADHILA Emma N T	4.	HUUMBWA Redemptus S
	5.	KAMEYA Romeo T	б.	KATJIVENA Gottlieb M
	7.	NAILONGA Lilongeni	8.	NDIMULUNDE Tresia Tegameno O A
	9.	SEZUNI Mathew L	10.	SHAMHA Selma N
	11	SHIMUTWIKENI Maria L N	12	SILVA Hilaria S



#### 1. DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES NQF: 10

#### WALIOMUZIBU MUKISA George W

Thesis:	Theoretical Model to Understand the Interactions of Undernutrition		
	Determinants on Childhood Nutritional Status in Namibia		
Supervisor:	Dr Tonderai Washington Shumba		
Co-Supervisor:	Dr Andrit Lourens		



#### ABSTRACT

**Background:** In Namibia, childhood undernutrition is a significant problem responsible for hospital admissions, deaths, and long-term effects, including impaired learning abilities and increased susceptibility to infections. This study intended to describe the interaction of undernutrition determinants on the nutritional status of children and provide a theoretical model that informs practice and policy intervention strategies critical to addressing undernutrition in Namibia.

**Methods:** The study employed primary mixed methods (qualitative and quantitative) and secondary (policy and scoping review) designs in five phases to conduct the research. Phase I encompassed conducting a scoping review to gather literature on the determinants of childhood undernutrition. For Phase II, a secondary analysis of the Namibia Demographic and Health Survey 2013 data was conducted to elucidate the determinants of childhood undernutrition in Namibia. Phase III involved conducting a qualitative study to obtain the perspectives of mothers/caregivers on child feeding and care practices. Phase IV involved a qualitative policy analysis of nutrition-related policies in Namibia. The final phase (Phase V) integrated the findings of Phases I to IV to develop a theoretical model summarising the interplay of various childhood undernutrition determinants and proposed interventions to address childhood undernutrition in Namibia.

**Results:** The scoping review indicated that undernutrition is still prevalent in Southern Africa, and considerable scarcity of research on maternal and child nutrition exists, which hampers the formulation of quality policies and programmes. The factors that influence the nutritional status of children under five years were categorised at four levels: maternal, child, household, and community factors. Maternal education and child birthweight were the most significant predictors of childhood undernutrition at maternal and child levels respectively. In addition, maternal age, employment, and stature had a profound effect on child nutritional status. The results of secondary data analysis of the Namibia Health and Demographic Survey indicated that the age of the child, birth weight and gender had a profound effect on children's nutritional status. Mother's exposure to media, their level of education and HIV status were associated with children's nutritional status.

The findings from Phase III indicated that social networks and family support, social media, and traditional beliefs and practices were critical in the ability of mothers/caregivers to adopt and practice recommended child-feeding practices. Social media was identified as an emerging platform that can be utilised in Namibia by nutrition actors to promote appropriate child feeding and care practices. There are no known studies in Namibia that have investigated the role of social media in maternal and child nutrition.

Notwithstanding the presence of relevant and coherent nutrition-related policies in Namibia, there is fragmentation in coordination, and limited consultations were conducted with the local communities during the development processes. However, substantial political and partner commitment exists in Namibia for the elimination of malnutrition. The Office of the Prime Minister led the process of policy development and was supported by stakeholders such as the UN agencies.

In Phase V, findings from Phase I-IV were summarised into five concepts; multisectoral policies, integrated programmes, intersectoral collaboration and capacity building and these formed the pillars for the study's theoretical model.

**Conclusion:** Namibia has relevant policies and high-level political commitment to address childhood undernutrition however, fragmented coordination systems, limited capacity to develop community problem-tailored interventions and translation of policy strategies into actionable interventions are significant challenges. Establishing and strengthening intersectoral collaboration at national and sub-national levels together with building the capacity of communities and nutrition actors is important to achieve positive nutrition outcomes. The multifaceted nature of the undernutrition determinants calls for the development of integrated programmes and policies encompassing the health, education, agriculture, and social welfare sectors. Target and context-specific interventions can be derived from the undernutrition determinants to prioritise and address actual child nutrition challenges. The study's theoretical model has the potential to inform practice, programme and policy intervention strategies critical to addressing undernutrition in Namibia.



#### SHIHEPO Saima

Thesis:

Supervisor: Co-Supervisor: Development of a Framework for the Protection of Quarry and Allied Workers from Occupational Respiratory Infections in Namibia Prof Omotayo Awofolu Dr Roswitha Mahalie



#### ABSTRACT

Occupational respiratory illnesses are among workers' most significant global health challenges in high-risk industries. Quarry and allied workers are particularly vulnerable due to prolonged exposure to respirable dust, which increases the risk of conditions such as silicosis, chronic obstructive pulmonary disease (COPD), and other respiratory infections. Despite advancements in occupational health and safety (OHS) globally, these illnesses remain a persistent issue, especially in countries with limited regulatory enforcement and inadequate frameworks for workplace safety. Some problems affecting OHS legislation implementation within the construction industry have been identified in Africa. These included limitations in the OHS legislation, bribery and corruption, inadequate funding of facilities and equipment, high levels of insecurity, poor OHS culture among construction stakeholders, and the severity of penalties to offenders. Occupational health and safety (OHS) in Namibia faces challenges including low awareness, poor compliance with regulations, limited resources, and a lack of dedicated OHS professionals, particularly in the informal sector and construction industries. Traditional methods of preventive and control strategies for occupational health (respiratory) conditions need to be radically updated to successfully adapt to the rapid and constant changes in the workplace. This study aimed to develop a respiratory protection framework that safeguards quarry and allied workers who are susceptible to occupational respiratory diseases in Namibia. The outcome will be invaluable to Environmentalists, health service providers, academia, and relevant governmental agencies for reference and utilisation.

A phased methodological approach was adopted in the study, which involved mixed methods (qualitative and quantitative) experimental techniques and secondary data review. For phase 1, three hundred and four (304) quarry and allied workers responded to a validated self-administered questionnaire that assessed the current respiratory protection practices among quarry and allied workers using a three-tier sampling technique. Phase 2 evaluated the Knowledge, Attitudes, and Practices (KAP) of quarry and allied workers with eleven (11) key informants. Semi-structured interviews were conducted, recorded, and transcribed verbatim. Descriptive statistics, correlations, and regression models were applied utilising the first two (2) phases. Thematic analysis and Statistical Package for Social Sciences (SPSS) version 28 computer software were used to analyse the data. Phase 3 used a laboratory-based experimental design to evaluate the efficiency of N95 and other masks used by workers. The experiment used seven 7 respiratory masks collected from the quarry and allied industries. In addition, the gravimetric weighing measured pre- and post-filtration dust mass. A particle size analyser assessed the ability of masks to block Particulate Meter PM10 particles. The tests simulated actual quarry conditions using dust-generating glass chambers. The experiment was conducted at the Air and Dust Laboratory Centre for Scientific and Industrial Research (CSIR) in South Africa. Furthermore, the Namibian legal provisions aligned with respiratory protection were reviewed in Phase 4. The secondary data/desktop reviews involved existing data on Namibian regulations and legislation that guide the respiratory protection of quarry and allied workers against international guidelines, regulations, and legislation that are thought to be "best practices" in protecting respiratory conditions. Premised on the study findings, a respiratory protection outline was proposed, addressing gaps in policy and practice in phase 5.

Characteristics and variables such as age, gender, work experience, beards, level of education, knowledge (training), and risk perceptions of respiratory protection exacerbate the workers' risk of respirable dust inhalation. Phase 1, Results revealed that about 69.7% of the quarry and allied workers currently experience respiratory protection. However, 66.8%, 57.2%, and 69.7% have inadequate respiratory protection knowledge, negative attitudes, and poor protective practices, respectively. the Pearson Chi-Square test result portrays a statistically significant association between employee respiratory protection and employment status at  $x^{2}(1) = 7.592$ , p = 0.000; employee respiratory protection and job category at  $x^{2}(9) = 37.742$ , p = 0.000; employee respiratory protection and educational level at  $x^{2}(3) = 68.517$ , p = 0.000; employee respiratory protection and worksite at  $x^{2}$  = 282.178, p = 0.001. However, there was no statistically significant relationship between employee respiratory protection and age at  $x^{2}(3) = 5.618$ , p = 0.006, employee respiratory protection and gender at  $x^{2}$ [1] = 0.053, p =0.818, employee respiratory protection and working experience at  $x^{2}$ [4] = 12.275, p =0.015. In phase 2, three (3) themes were identified, namely employee knowledge of respiratory protection, employee attitudes aligned with respiratory protection, and employee practices on respiratory protection. Phase 3 showed that the Particle Filtration Efficiency (PFE) gravimetric weighing had minimal dust retention, with higher dust exposure at Sites C, D, F, and G. Particle size analysis revealed that most masks failed to effectively filter smaller particles below PM<sub>in</sub>. Reduced mask efficacy due to membrane saturation was also recorded after prolonged use. Sites A, B, and C demonstrated PM,, particle retention at 100%, while Site D showed only 60%. The review of Namibian legal provisions protecting quarry and allied workers showed fragmentation and no clarity on implementation, thereby ineffectively protecting the workers in phase 4. Phase 5's guidelines for operationalising the framework were developed based on the study findings obtained through



questionnaires from workers, interviews from management, Particle Filtration Efficiency (PFE) experiment results, and the review of Namibian legal provisions. The framework was evaluated by experts in academia, occupational health professionals, and industry stakeholders to assess each framework component's relevance, clarity, and completeness. Adopting Chin and Kramer's checklist to conduct the evaluation.

This study underscores substantial gaps in respiratory protection, knowledge, attitudes, and practices among quarry and allied workers in Namibia, contributing to increased exposure to respirable dust and associated health risks. The inefficacy of the N95 masks used by workers in filtering fine particulate matter of Particulate Matter PM<sub>10</sub> further emphasised the critical need for a robust respiratory protection framework. Furthermore, the fragmented and unclear legal provisions currently in place fail to offer adequate protection for high-risk workers. Based on these findings, the proposed respiratory protection framework to improving workplace safety through enhanced policies, effective training programmes, and the adoption of higher-efficiency respiratory protective equipment. Implementing this framework is crucial for safeguarding workers' health and ensuring long-term occupational safety in Namibia's quarry and allied industries.

#### 2. DOCTOR OF PHILOSOPHY IN NATURAL RESOURCE SCIENCES: NATURAL RESOURCE SCIENCES (NQF: 10)

#### NGHALIPO Elise N

Thesis:	
Supervisor:	
Co-Supervisor:	
Co-Supervisor:	
Co-Supervisor:	

Plant Influences on Taxonomic and Functional Diversity of Soil Microbial Communities and Soil Biogeochemistry in A Hyper-Arid Desert Prof Rolf Becker Prof Heather Throop Prof Don Cowan Dr Pedro Lebre



#### ABSTRACT

Topsoil microbiomes are critical contributors to ecological processes and ecosystem services in dryland ecosystems, particularly in hyper-arid regions like the Namib Desert. While previous studies have investigated soil microbiomes in the Namib Desert, these studies primarily focused on the central gravel plains, leaving the Skeleton Coast National Park, part of the northern Namib Desert, largely unexplored; thus, there is limited understanding of the soil microbiomes in this hyper-arid coastal region. This study evaluated the soil microbiome in plant hummocks in the coastal Namib Desert by 1) investigating microbial communities associated with plant hummocks, 2) establishing how microbial communities compare between plant hummocks and bare soils, 3) investigating how soil microbes are genetically equipped to survive in hyper-arid systems, and 4) investigating the functional roles of these microbial communities. Soil surface samples (0-5 cm depth) were collected from five Arthraerua leubnitziae-vegetated hummocks at three sampling locations: the hummock, windward soils, and open gravel plains in the Skeleton Coast National Park. Taxonomic barcoding was used to profile the microbial ecology of these samples. The results revealed that vegetated hummocks and surrounding soils in the Skeleton Coast National Park have qualitatively distinct soil microbiomes, with plant hummock soils harboring a significantly (p<0.001) higher number of observed species compared to bare soils. The findings reveal diverse taxa that have developed unique metabolic strategies to tolerate and thrive in extreme environments. Notably, the presence of NiFe hydrogenase Hyd-1 enzyme indicates the potential for chemotrophic microbes to scavenge atmospheric trace gases as alternative energy sources. The higher functional diversity and exclusive taxa in plant hummock soils suggest that plants play a crucial role in shaping the soil microbiome. This study also identified microbial communities and their functional diversity associated with vegetation that could be particularly vulnerable to vegetation decline, potentially driven by climate change. Given the critical role of prokaryotes in soil ecosystem services, this could lead to changes in microbial community structure, potentially reducing microbial functional capacity, ecosystem functions, and resilience. Additionally, the litterbag technique was employed to assess the influence of vegetation patches on litter decomposition rates by measuring decomposition differences between two contrasting litter types (shrub and grass) under vegetated and unvegetated patches and determining how litter chemical composition (N & C content and C:N ratio) influences decomposition rates. The results indicated that litter decayed more rapidly in unvegetated patches than in vegetated patches, with shrub litterbags retaining less mass than grass litterbags regardless of the patch type. Furthermore, it was found that shrub litter, which had higher Nitrogen and lower Carbon content and C:N ratio than grass litter, decomposed at a faster rate. These findings provide insights into the mechanisms influencing litter decay rates, ultimately aiding in the prediction of litter decay in hyper-arid ecosystems.



3.	MASTER OF HEALTH SCIENCES (NQF: 9)			
	1.	BIWA Morgan W	<b>Thesis:</b> Analysis of Electronic Waste Generation, and Disposal Practices Among Institutions of Higher Learning, Windhoek <b>Supervisor:</b> Dr Roswitha Mahalie	
	2.	ISHINDWA Hilalia K	Thesis: Prevalence and Health Risk Assessment of Heavy Metals in Locally Milled Maize and Millet and Corresponding Commercially Sold Products in Namibia Supervisors: Prof Omotayo Awofolu Co-Supervisor: Prof Erold Naomab	
	3.	KANOVENGI Bianca K	Thesis: Investigating Immune Activation and Checkpoints in B Cell Lymphoblastic Leukaemia Supervisor: Dr Maurice Nyambuya Co-Supervisor: Mrs Edwig Shingenge Co-Supervisor: Prof Bongani Brian Nkambule	
	4.	MBUDHI Phillip P K	<b>Thesis:</b> Exposure and Health Risk Assessment of Police Officers to Polycyclic Aromatic Hydrocarbons (PAHs) in Oshikango, Ohangwena Region, Namibia <b>Supervisor:</b> Prof Omotayo Awofolu <b>Co-Supervisor:</b> Prof Erold Naomab	
	5.	NEGUMBO Helmi S N	Thesis: Assessing the role of vitamin D dietary intake and nutritional status in Patients with Asthma Supervisor: Dr Maurice Nyambuya Co-Supervisor: Mrs Edwig Shingenge	
	6.	<b>TJITOMBO</b> Uza J	<b>Thesis:</b> Investigating B cell activation and cytokine secretion in Type 2 diabetes <b>Supervisor:</b> Dr Maurice Nyambuya <b>Co-Supervisor:</b> Prof Bongani Brian Nkambule	

#### 4. MASTER OF SCIENCE IN NATURAL AND APPLIED SCIENCES: APPLIED BIOLOGY (NQF: 9)

1.	HATUTALE Anna-Liisa N M	<b>Thesis:</b> Nutritional Composition, Functional and Sensory Analysis of Pearl Millet (Pennisetum glaucum) and Cowpea (Vigna unguiculata) flours for Complementary Feeding <b>Supervisor:</b> Prof Percy Chimwamurombe <b>Co-Supervisor:</b> Dr Evelyn Breuer
2.	LEEVI Monika N	Thesis: Impacts of Brine Wastewater from Green Hydrogen Desalination on Coastal Biodiversity Supervisor: Prof Edosa Omoregie Co-Supervisor: Prof Dr Andreas Schmid Co-Supervisor: Prof Habauka Kwaambwa

#### 5. MASTER OF SCIENCE IN NATURAL AND APPLIED SCIENCES: APPLIED CHEMISTRY (NQF: 9)

1. SHAFODINO Festus S	Thesis: Characterisation of Factors Controlling the Speciation of Zinc, Cadmium and Lead in an Environmental Compartment Impacted by Mining Activities Supervisor: Prof Julien Lusilao
	Supervisor. I for suffer Euslido
	Co-Supervisor: Dr Marius Mutorwa



б.	MASTER OF SCIENCE IN NATURAL AND APPLIED SCIENCES: APPLIED PHYSICS (NQF: 9)				
	1.	HAIPINGE Simon T	<b>Thesis:</b> Development of Functionalised NiCo Nanomaterials as Electrodes for Green Hydrogen Production <b>Supervisor:</b> Prof Dipti Ranjan Sahu		
	2.	NANDJOVO Maria N	Thesis: Health Risk Assessment of Natural Radionuclides and Heavy Metals in Wild Harvested Mopane Worms ( <i>Imbrasia Bellina</i> ) From Uukwaluudhi Conservancy, Omusati Region in Namibia Supervisor: Prof Dipti Ranjan Sahu Co-Supervisor: Dr Vaino Indongo		
	3.	NEGUMBO Secilia K	Thesis: Elemental, Radiometric Analysis and Assessments of Etosha Salt Pans in Namibia Supervisor: Dr Vaino Indongo Co-Supervisor: Prof Dipti Ranjan Sahu		

#### 7. MASTER OF SCIENCE IN APPLIED STATISTICS (NQF: 9)

1.	SHIVUTE Mutaleninohenda V	Thesis: Spatial Modelling and Mapping of Crime in Namibia
		Supervisor: Dr Dibaba Gemechu
		Co-Supervisor: Dr Dismas Ntirampeba

#### MASTER OF NATURAL RESOURCE MANAGEMENT (NQF: 9) 8.

1.	AMUPOLO Hilma N	<b>Thesis:</b> Exploring Assisted Tree Regeneration to Support Sustainable Forest and Woodland Management, Namibia <b>Supervisor:</b> Prof Vera de Cauwer
2.	IIPINGE Geovanna M	<b>Thesis:</b> An Assessment on the Governance of Natural Resources use and Wild- life Conservation to Enhance Livelihoods in the Zambezi Region, Namibia <b>Supervisor:</b> Prof Jonathan Kamwi
3.	KATANGA Lovisa N E	Thesis: Assessment of growth and biomass production potential of indige- nous succulents in Namibia under controlled conditions Supervisor: Prof Vera de Cauwer
4.	MUDZANAPABWE Adiel T	<b>Thesis:</b> Analysis of Cultural Values and their Influence on Natural Resource Management and Decision making: a case of the Zambezi Region, Namibia <b>Supervisor:</b> Prof Jonathan Kamwi
5.	SANZILA Bright N	<b>Thesis:</b> Evaluating the Effectiveness of the Spatial Monitoring and Reporting Tool (SMART) in Communal Conservancies in North-East Namibia <b>Supervisor:</b> Prof Morgan Hauptfleisch <b>Co-Supervisor:</b> Dr Pauline Lindeque

8.	. BACHELOR OF EMERGENCY MEDICAL CARE HONOURS (NQF: 8)				
	1.	KANIME Aili N	2.	KAPEMBE Teopolina N M	
	З.	SHILELO Helmi N			
9.	BAC	HELOR OF NATURAL RESOURCE MANAGE	MENT HO	DNOURS (NQF: 8)	
	1.	ANDOWA Giselinde N	2.	DISHO Michael M	
	3.	HAKURIA Usehue	4.	IITHETE Eden N	
	5.	IPANGELWA Tresia H	6.	KARAMBUKA Emily M	
	7.	MATHEUS Martha D	8.	MNASHIMWE Shafa-Shike	
	9.	NGHOSHI Rebecca	10.	PAULUS Nantinda L I	
	11.	PETRUS Maria N N	12.	SHITULENI Victor T N	
	13.	SIKUTE Kahimbi C	14.	STEIN Vanessa S	
	15.	TIMOTEUS Simon N	16.	UUSIKU Gabriel I K	



10.	0. BACHELOR OF SCIENCE IN AGRICULTURE HONOURS: AGRIBUSINESS MANAGEMENT STRAI (NQF: 8)			GRIBUSINESS MANAGEMENT STRAND
	1.	IIKUYU Bilha L	2.	KATJIUANJO Dico U
	3.	MAPUTE Martin S	4.	MBURURA Nelson
	5.	MULYONGWE Sunday M T	б.	MUNDIA Averill M
	7.	UUSIKU Ruth N N I	8.	VAN ROOI Owen M
	9.	VATILIFA Simon S		
11.	BAC (NC	HELOR OF SCIENCE IN AGRICULTURE HON F: 8)	IOURS: SL	ISTAINABLE AGRICULTURE STRAND
	1.	ABRAHAM Maria	2.	AITULA Petrina N
	3.	BENJAMEN Johanna K	4.	BOYS Pio F S
	5.	HANGULA Rauna-Indileni	б.	KAFITA Henock P
	7.	KANHINDA Moses L S	8.	KATJIVENA Vemutjiua
	9.	MARENGA Kamakotje	10.	NANGOLO Hileni N
	11.	SHIKOLOLO Fransina N	12.	VESEEVETE Rodney
12.	BA	CHELOR OF SCIENCE HONOLIRS: APPLIED		NOF: 8)
	1	FNDIALA Johanna N	2	HALISHONA Saara T
	2		4	NANGOLO Amalia N
	5	POKOLO Hileni N		SHIVOLO Eva-Liisa N N
	э.	I OKOLO IMEMIN	0.	
12	DA			
15.	DA			
	1.	AMUKALU Fransına M (CUM LAUDE)	2.	CHRISTOPH Seveline N
	3.	FABIAN Simaneka I	4.	ITWA Meryclare N
	5.	NDJENDJA Sharon N	б.	PRIMUS Rauha N N
	7.	QUEST Beaucherine A	8.	SHAFUDAH Julia N T
	9.	SHIFIDI Peuyehafo I	10.	TECA Nvindo A N
14.	BA	CHELOR OF SCIENCE HONOURS: APPLIED	PHYSICS	(NQF: 8)
	1.	AMBAMBI Aron H S	2.	NAWASES Catherine A M
	3.	VEJORERAKO Uarongororua		
15	DAG			
15.	DAU			
	1.		2.	IPUMBU Natasha
	3.	KATJIUONGUA Ngayozikue M	4.	KORUKUVE Kaveruire G
	5.	METUSALEM Sylvia S	б.	SHIMWANDI Victoria
16	R۸		<b>П МАТНЕ</b>	ΜΔΤΙΓς (ΝΟΕ· 8)
10.		MATELIC Dovice	אוייז ש אוואבעריי ש	
	1. 2		Ζ.	
	5.		4.	
	5.	IJINANUE MELALU	б.	
17	BA	CHELOR OF SCIENCE HONOLIRS IN APPLIFI	) STATIST	TICS (NOF: 8)
	1.	ALWEENDO Dhimhulukweni V	2	AMON Mekondio P
	2		Δ.	HANSEN Antonio I
	5.		4.	IZAAKS John-Deter
			0.	
	/. 0		ō. 10	
	9.		10.	Γυταινίδα Jusepii



#### 18. BACHELOR OF SCIENCE HONOURS IN HEALTH INFORMATION SYSTEMS MANAGEMENT (NQF: 8)

1.	AINDAKA Patrisia	2.	AMOOSE Tsaanika T
3.	DA SILVA Roberto	4.	DAVID Hilma N
5.	HAMUNYELA Hilma T M	б.	HANGHOME Arlin N N
7.	IIPINGE Petelina N	8.	KAATAHI Atjaveendapi
9.	KANYEMBA Saalome N	10.	KASHEDI liyaloo T
11.	MALAPI Johannes T	12.	METUSALEM Ndahafa I
13.	NUUYOMA Roswitha	14.	SIMASIKU Kelly L
15.	SHAAKUMENI Eben – Etuhole	16.	SHIGWEDHA Andreas N
17.	SHITAA Kacana A	18.	UUGWANGA Eliaser L

### NOTES

# UNDERGRADUATE QUALIFICATIONS





#### **FACULTY OF COMPUTING AND INFORMATICS** CANDIDATES PRESENTED BY THE ACTING EXECUTIVE DEAN: PROF FUNGAI BHUNU SHAVA

#### BACHELOR OF COMPUTER SCIENCE: COMMUNICATION NETWORKS (NOF: 7) 1. AMUTENYA Amutenya D B 1. **ABRAHAMS** Klievett N 2. **ANTINDI** Leopard N 4. **ASHIPALA** Joel S 3. **CHIWAULA** Shalom **CLOETE** Christal 5. 6. 7. EICHAB !Haokhoeb G H 8. HAIFETE Elia M W 9. HAIHAMBO Shikongo H 10. **HASHILUNDO** Titus N IKANDA Setson A T 12. KARUMENDU Rinoumba J 11. 13. LUCAS Henok S 14. **MALISIUS** Hafeni 15. **MBONGO** Teofilus 16. **MUSIYARIRA** Nyasha H **MUTEDE** Tawana D **MWOONDE** Alex S 17. 18. 19. NAMBUNDUNGA Ngowina P 20. **NASHANDI** Christiaan P J NDARA Patrick K 22. NDJARAKANA Tjiri 21. **NDUMBA** Karel P M **NEKONGO** Morning J 23. 24. 25. NSINANO Frieda N 26. **RHOMAN** Romario L **SHAANIKA** Paulus S 27. 28. SHAIDILA Venonne D P 29. SHAPAKA Barkias N K SHINDIMBA Veronika N 30. 31. **SIBANDA** Thandeka BACHELOR OF COMPUTER SCIENCE: SOFTWARE DEVELOPMENT (NQF: 7) 2. CHILWALO Owen L 1. **AMADHILA** Aune N 2. 3. **DIAMONDS** Christy P 4. **FANGDA** Rickv **FILIPPUS** Filippus HAMUNYELA Fabian T 5. 6. 7. HANGO Ndeyapo N 8. **IMMANUEL** Alfred K 9. **JASON** Loide T N 10. JONAS Sarafina KANYINGA Justianus P H 11. JOSEPH Panduleni J N J 12. KATANANGA Nokutenda R **KIBWIKA** Mwenze 13. 14. KUDUMO Andreas K KULOBONE Simasiku O 15. 16. 17. **KURIJA** Mbitjita 18. LIZAZI Prince A S 19. MABUTA Abraham N 20. **MANJARA** Emily S Z 21. MANUNURE Tashinga R (CUM LAUDE) 22. MANUEL Brito V 23. MAPOHA Tjitouua M 24. MATHEUS Matheus P N **MBANDEKA** Omukwathi E M **MUTEKA** Daniel N 25. 26. MUYENGA-MUYENGA Ponti N J **NAKALE** Immanuel N 27. 28. NAMASEB Marcel J NAMWANDI Angelina H A 29. 30. 31. **NEHEMIA** Teophelus N 32. **NEKONGO** Frans S **NELIWA** Hafeni L 34. **NEUMBO** Setson T 33. NGHIWEWELEKWA Taloshili E E **NGHIWILEPO** Clinton S 35. 36. NIIGAMBO Priscilla N M **NKONDO** Paul M 37. 38. SANTOS Vanderley T D C F D 39. NYAMBE Mark 40. 41. SEM Abisai T 42. **SHISHASHA** Johannes M 43. SWARTZ Jonathan D 44. TADYANEMHANDU Tanaka L 45. TCHIKENGE Isabel S G **TUMBILA** Junias H 46. 47. UJAVA Vatiraije 48. **VETUU** Tjindjo

#### 3. BACHELOR OF COMPUTER SCIENCE: SYSTEMS ADMINISTRATION (NQF: 7)

1. IIKONDJA Immanuel A

2. KABOMU Pheleps H





8.	CERTIFICATE IN BIG DATA TECHNOLOGIES (NQF: 7)					
	1.	ABRAHAM Pia I	2.	ANDREAS Elifas S		
	3.	MBANGO Maria M	4.	MOSES Saima N		
	5.	MWAMPOLE Antonate N	б.	NEHALE Eliaser N		
	7.	PEMBELE Lidia	8.	PETRUS Alina T		
	9.	PETRUS Eva V N	10.	SHATUMBU Lossert A		
	11.	SHEYA Patritia N	12.	SHILONGO Fillemon		
	13.	SHITYENI Monica N	14.	UANDARA Avihe		
9.	9. CERTIFICATE IN ETHICAL HACKING AND INFORMATION SECURITY (NQF: 7)					
	1.	ALFEUS Markus S	2.	HAUFIKU Pashukeni E		
	3.	KULOBONE Mafale M	4.	KWEDHI Kristofina N		
	5.	NANGALA Natangwe J	б.	NASHIMA Alfeus N		
	7.	NAUYOMA Josef P	8.	NDAHOMENUA Fillipus N		
	9.	SHAPAKA Wilhem N	10.	SHIKONGO Josef K		



#### FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT CANDIDATES PRESENTED BY THE EXECUTIVE DEAN: PROF HARMONY MUSIYARIRA

1.	BACHELOR OF ENGINEERING IN CIVIL ENGINEERING (NQF: 8)				
	1.	ANGULA Immanuel N A	2.	ARIGBE Harrison S	
	3.	JOHANNES Johannes K	4.	JOHANNES Frieda M	
	5.	KASHILE Paulus V N P	6.	SHIVUTE lleka	
2.	BAC	HELOR OF ENGINEERING IN CHEMICAL ENG	GINEERIN	G (NQF: 8)	
	1.	HAIHAMBO Simeon N	2.	JOHANNES Dineinge J	
	3.	MUPOPIWA Kornelia	4.	SHAANIKA Olivia N N	
	5.	SHITUMBULENI Johannes			
3.	BAC	HELOR OF ENGINEERING IN MECHANICAL	ENGINEE	RING (NQF: 8)	
	1.	GIDEON Festus S	2.	HEPUNDJUA Rikuvera	
	3.	IILEKA Secilia	4.	IPINGE Gerson P	
	5.	KAVITJENE Kavetjiua	6.	MVURA Fillemon N	
	7.	NAMBAHU Amutenya P	8.	NDESHITILA Matheus A	
4.	BA	HELOR OF ENGINEERING IN ELECTRICAL	POWER F	NGINEERING (NOF: 8)	
	1.	HAMULUNGU Immanuel H	2.	HAMUTENYA Michael H	
	3.	HAMUTENYA Tiofelus H	4.	IPINGE Phillemon K	
	5.	KAKONDA Cornelius	6.	MUHEUA Steven V	
	7.	MUSEUA Alex N	8.	NAMBINGA Eneas T	
	9.	SANTO Adriano K	10.	SHIHUNGILENI Rusia N	
5.	BAC	HELOR OF ENGINEERING IN ELECTRONICS	SAND TEL	ECOMMUNICATIONS (NOF: 8)	
	1.	CHIGANZE Shingai W	2.	EGUMBO Hilda N	
	3.	FELIX Figueiredo D C	4.	GERTZE Matthew R K	
	5.	KAKENDE Veronica S	6.	MUSHAUKWA Namasiku V	
	7.	NDADI Ester P N	8.	VIEGAS Daniel P	
б.	BAC	HELOR OF ENGINEERING IN INDUSTRIAL		RING: NOF: 8	
	1.	IGALA Laurence P	2.	NGENO Ruben N M	
	3.	SHIVOLO Taava L N	4.	SHIKONGO Mateus H	
7.	BAC	HELOR OF ENGINEERING IN MINING (NOF:	8)		
	1.	AMUPALA Magdaleena N	2.	HIIHO Vekundaiie	
	3.	IMMANUEL Immanuel S	4.	KRISTIAN Magano M	
	5.	MALUNGA Percy P	б.	MATIAS Victoria M	
	7	MUZANGWA Civil	8.	NGHITUMU Fahian N	
	9.	SHIHWANDU Ndinelao M	10.	SHINEDIMA Pendanala M	
	<b>9.</b> 11.	SHIHWANDU Ndinelao M TSHISWAKA Katongo P	10.	SHINEDIMA Pendapala M	
	9. 11.	SHIHWANDU Ndinelao M TSHISWAKA Katongo P	10.	SHINEDIMA Pendapala M	
8	9. 11. ΒΔ1	SHIHWANDU Ndinelao M TSHISWAKA Katongo P THELOR OF ENGINEERING IN METALLURGY	10. Y (NOF: 8)	SHINEDIMA Pendapala M	
8.	9. 11. BA(	SHIHWANDU Ndinelao M TSHISWAKA Katongo P CHELOR OF ENGINEERING IN METALLURG ANTINDI Vernouman V	10. Y (NQF: 8) 2	SHINEDIMA Pendapala M	
8.	9. 11. BA( 1.	SHIHWANDU Ndinelao M TSHISWAKA Katongo P CHELOR OF ENGINEERING IN METALLURG ANTINDI Vernouman V KAZADI Shadrac N	10. Y (NQF: 8) 2.	SHINEDIMA Pendapala M GEINGOS Riceline T NEUMBO Ester N	
8.	9. 11. BA( 1. 3.	SHIHWANDU Ndinelao M TSHISWAKA Katongo P CHELOR OF ENGINEERING IN METALLURG ANTINDI Vernouman V KAZADI Shadrac N SAKARIA Sakaria	10. Y (NQF: 8) 2. 4. 6	SHINEDIMA Pendapala M GEINGOS Riceline T NEUMBO Ester N TIIKUNE Rijamekee	
8.	9. 11. BA( 1. 3. 5. 7	SHIHWANDU Ndinelao M TSHISWAKA Katongo P CHELOR OF ENGINEERING IN METALLURGY ANTINDI Vernouman V KAZADI Shadrac N SAKARIA Sakaria WA MWEMBO Dan K	10. Y (NQF: 8) 2. 4. 6.	SHINEDIMA Pendapala M GEINGOS Riceline T NEUMBO Ester N TJIKUNE Rijamekee	



q	BACHELOR OF PROPERTY STUDIES (NOF: 8)				
Э.	1		2	DANIEL Siita	
	ı. 2		2.		
	5.	FILLEMON Moses M			
	5. 7	HAMMOND Daniel D	0. g	KAMBONDE Saima N	
	<i>.</i>		0.		
	9. 11		10.		
	11.		14		
	15.		14.	CADATHA Chanica L C	
	15.	CAMUEL Loromia N	10.		
	1/.		18.	SHIKUNGU LEENA N	
	19.		20.		
	21.		22.	VEKARAPI UVAWA U	
10	DAC				
10.	BAL	HELUR UF ARCHITELTURE (NUF: /)	-		
	1.	BEUKES Jeandre	2.	BEUKES Earvin B	
	3.	GRAIG Berne-Lee A	4.	HATUPOPI Shoopala L	
	5.	HISHONO Tehillah-David N T	6.	KAMATI Che P	
	7.	KAMBINDA Fernando L	8.	MUUTUN Rene' D	
	9.	M'PAYAH Chiedza M	10.	MUTUKU Mutua	
	11.	NAHUNGI Paulus A	12.	NANGOLO Panduleni P	
	13.	NGHIHEPAVALI Etuna M	14.	NKANDI Simon A F	
	15.	OHEREIN Ikpehai D J	16.	SHIIMBI Andreas S J	
	17.	SHUMBA Vanessa N	18.	STRAUSS Moranzel D	
	19.	ZAAYMAN Johan			
11.	BAC	HELOR OF TECHNOLOGY IN MECHANICAL	ENGINEE	RING (NQF: 7)	
	1.	DAVID Dianah M	2.	FELENANDU Matheus N	
	3.	FILIPE Emirene M J	4.	FILIPUS Jenifer P	
	5.	<b>JONAS</b> Jonas G	6.	KANGOMBE Andreas S	
	7.	NANGOMBE Emilia	8.	SHIMI Victoria N	
	9.	TSEI-TSEIMOU Johannes C			
12.	BAC	HELOR OF GEOMATICS (NQF: 7)			
	1.	CLARKE Matthew P	2.	MUTOMEKA Mateus I J T	
13.	BAC	HELOR OF GEOINFORMATION TECHNOLO	GY (NQF: 7	7]	
	1.	EKANDJO Nelson N M	2.	KAMOSHO Aune I	
	3.	SIMEON Kaulihowa	4.	MUATULI Muatuli R	
	5.	NANGOLO James P	6.	SHEETEKELA Efraim S	
	7.	SIMON Eufemia Ndhiladhileni	8.	UISEB Gregory I	
14.	BAC	HELOR OF LAND ADMINISTRATION (NQF:	7)		
	1.	DAVID Erastus N	2.	DULA Rosalia P	
	3.	GERTZE Vaningandu S	4.	HAUFIKU Jessica M	
	5.	KASHOPOLA Anna N	6.	MARKUS Ruusa N	
	7.	MATIAS Mirjam M	8.	MURAMBA Ngunde	
	9.	NAMBAHU Tuliyameni N	10.	NANGULA Tse-Naye R	
	11.	NDAKEVA Rakel N	12.	NYAMA Phillip S	
	13.	SAKEUS Joel E	14.	SHAPAKA Nikodemus N	
	15.	SHARON Zion Q J	16.	SHIKOYENI Johannes N	
	17.	TUGHUYENDERE Chrisantus M			



15.	BAC	BACHELOR OF QUANTITY SURVEYING (NQF: 7)			
	1.	AMUTENYA Kleopas N	2.	CHRISPIN Banda	
	3.	FILEMON Tuyakula N	4.	GUMEDE Keith T	
	5.	JUNIAS Junias N	б.	KASONGO Mwadi H	
	7.	KATONYALA Vivo M	8.	MATSI Jo-Anne M N	
	9.	MUJEU Mbeimuna	10.	MUKUVE Boetie D C	
	11.	MUPETAMI Selma I N	12.	NAMBALA Thomas D	
	13.	NAMWANDI David R N	14.	INARUSES Helvyan T	
	15.	NGADA Mikhail S N	16.	NGHISHIIKO Mackson V P	
	17.	<b>OLAVI</b> Ndafapawa	18.	SHENJE Takudzwa R	
	19.	SHIKULO Deon T J	20.	SHIMANA Soini N S	
	21.	STEPHANS Saara T	22.	UUGWANGA Natangwe T	
	23.	VEREMU Muchaneta M		5	
14.	BA	CHELOR OF REGIONAL AND RURAL DEVEL	OPMENT	(NQF: 7)	
	1.	AMWAAMA Hofen K T	2.	HUNGI Ndipita A	
	3.	KLUKOWSKI Ingrid J	4.	NKONDO Sandra N	
	5.	SHIIMI Wilkka	6.	SNEWE Charmifah O	
15.	BAC	HELOR OF TECHNOLOGY IN CIVIL ENGINE	ERING (UP	RBAN)	
	1.	NDAKUNDA Monika N	2.	NDEUYEEKA Saara M H	
16.	BAC	HELOR OF TECHNOLOGY IN CIVIL ENGINE	FRINGÍN	)F : 7)	
101	1.		2.	HAUKONGO Titus N	
	3	KADHIKWA Martin N	2. A	KAPWEVA Selma N	
	5	KATIINAANI Panderanuve	6	NAMUPALA Seranhine N	
	7	SHIHINGII ENI Elizabeth S	8	SHILLI A Pernalie N	
	9	SHIVIITE Aaron I	0.		
	S. SHIVOLEAGIONS				
17.	BACHELOR OF TECHNOLOGY IN ELECTRONIC ENGINEERING				
	1.	HERUNGA letuura	2.	JOHANNES Rauna N	
	3.	NAMBELE Enafras T N			
	5.				
10					
10.					
	1.	HAMATA Sarome N N	Ζ.	SHIWEDA Angel K C	
	DAG				
19.	BAC	HELOR OF TECHNOLOGY IN POWER ENGI	NEEKING		
	1.	SHIIMI Lamek			
20.	BAC	HELOR OF TECHNOLOGY IN POWER ENGI	NEERING	(NQF : 7)	
	1.	ARNAT Rumarchen T	2.	JOHANNES Samuel H	
	3.	KALOMBO Rubain D	4.	KATENGELE Likius S	
	5.	KAVETU Katjinomasa	6.	LUMBWE Nathan K	
	7.	MUMBA Joseph	8.	SHILOMBWELWA Ndahambelela N	
	9.	THOMAS Moses N			



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21.	BAC	BACHELOR OF TOWN AND REGIONAL PLANNING (NQF : 7)			
	1.	ANYOLO Eliaser E	2.	JEREMIA Jeremia H	
	3.	KATJIVENA Aristargos M	4.	KRUGER Megan N	
	5.	MÃ-GLE Yadan R	б.	MUKWAMBO Milagra	
	7.	MUTUMBULWA Helena W	8.	MUZENGUA Dodi H	
	9.	NAMULO Selma N	10.	NASHONGO Lucia P N	
	11.	NCHINDO Inonge D	12.	NEHALE Victoria N	
	13.	SEBLON Peter I	14.	SHATIWA Aina N	
	15.	SHIKONGO Loide K	16.	SHIKUKUMWA Fortune M	
	17.	SHITULENI Helvi N K	18.	UUTONI Selma T	
22.	DIP	LOMA IN MECHANICAL ENGINEERING (NQI	F:6)		
	1.	DAVID Dianah M	2.	DIERGAARDT Roberto O	
	З.	HAIMBILI Mwene P D	4.	HEKANDJO Ihepavali	
	5.	JESAYA Josephina K	6.	MALAKIA Moses N	
	7.	MUFALALI Pretty M	8.	NAMBALA Mile P	
	9.	NANGOLO Moses S	10.	NANGOMBE Emilia	
	11.	NGHILENGWA Adjust L			
23.	DIPLOMA IN CIVIL ENGINEERING (NQF : 6)				
	1.	CLOETE Willow J	2.	SHIVUTE Aaron J	
	З.	SISAMU Josephine M	4.	TJAMUAHA Mbajoroka	
24.	DIP	LOMA IN ELECTRONIC ENGINEERING (NQF	:6)		
	1.	HAMATA Sarome N N	2.	KASAONA Uasuta	
	3.	NGHIDENGWA Peneyambeko N			
25.	DIP	DIPLOMA IN POWER ENGINEERING (NQF : 6)			
	1.	HANGO Ronald S	2.	JOHANNES Leonard A	
	3.	KALIMBWE Wallace E T	4.	MUMBA Joseph	
26.	DIPLOMA IN GEOMATICS NOF: 6				
	1.	MOTJOLOPANE Katlego			
		5			
27.	DIPL	OMA IN PROPERTY STUDIES NOF: 6			
	1.	AMWAAMA Jason T K	2.	IIYAMBO Maria O	
	З.	ISHITILE Mathew A J	4.	JOHANNES Victory P	
	5.	LOMBARDT Ivanna T //H	6.	MULENAMASWE Gosalves M	
	7.	STEFANUS Namupala P	8.	THOMAS Camilla M	

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#### FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES CANDIDATES PRESENTED BY THE EXECUTIVE DEAN: DR ONESMUS SHUUNGULA

1.	BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES (NQF: 8)					
	1.	ARENDSE Raumalley A	2.	EKANDJO Eliaser S		
	З.	EMVULA Helena N	4.	HAINDONGO Martha N		
	5.	HAINGURA Emmy J K	б.	JANTZE Andy S		
	7.	KALOLA Laina	8.	KATIVA Hileni N		
	9.	LAZARUS Tuwilika	10.	MNTHAMBALA Tapiwa D		
	11.	NAHENGO Elizabeth N N	12.	NANTINDA Liina N N		
	13.	RUKORO Samuel M	14.	SHIKONGO Laina S		
	15.	SHIPINGANA Junice T	16.	SHULIPUTYO Alelius		
	17.	UARIJE Tjarirove S	18.	XAVIER Marjam N		
2.	BAC	HELOR OF HUMAN NUTRITION (NQF: 8				
	1.	ABRAHAM Erikka N	2.	BROCKERHOFF Wilmari A		
	3.	HAMUNYELA Fillemon N	4.	HOMATENI Elizabeth Q N		
	5.	KATJIUA Jenice R	б.	KONGOLO Muangeni N		
	7.	MASSANGO Rosalina N	8.	MWAMBELWA Jannice		
	9.	NANGOLO Emilia N	10.	SHIKWAMBI Ndeshipanda H		
	11.	SHIVUTE Shinaaz S S	12.	SHIYUKA Tulimevava T		
	13.	UUSIKU Helena T	14.	VAN WYK Kiara C		
3.	BAC	HELOR OF MEDICAL LABORATORY SCIENCES (	(NQF: 8)			
	1.	AKWEGA Natalia N	2.	AMUNYELA Sigfried I A		
	3.	AMUTENYA Lusia M N	4.	ANGHUWO Onesmus N		
	5.	EKANDJO Selma M O	б.	GOPE Tafadzwa T N		
	7.	GOWASES Isherene W (CUM LAUDE)	8.	HEIBES Marichen J		
	9.	IYAMBO Foibe I T	10.	JANTJIES Gabriella		
	11.	KAKONDA Amina	12.	KALIMBO Sofia N		
	13.	KAPUTJAZA Undjizuva	14.	KATIRE Muye M		
	15.	KURANGERA Chorlletha	16.	MAHOTO Aini E L		
	17.	MBAREKE Secilia K	18.	MBWALE Sao N		
	19.	MBWALE Johannes K E	20.	MUBIANA Juliana N		
	21.	MUCHEMEDZI Moses E	22.	MULUMENDU Fienipo		
	23.	MUNGUNGU Trust T	24.	MUPATI Ndapewoshali I		
	25.	MUREMA Mohamunika	26.	MUTOTA Eunike T		
	27.	MUWUNGANI Diana R	28.	MWATINGHIMUNHU Julius N		
	29.	MWEWA Joy	30.	NANGOLO Aini L		
	31.	NDADI Diana N T	32.	NDIBALEMA Doreen T P		
	33.	NDJALO Hilma N T	34.	NDJAMBA Jossias E		
	35.	NIMROD Miguel S	36.	NYAKOCHA Patience T		
	37.	PAMPLIN Robin	38.	PETRUS Pombili T		
	39.	SHAFA Nghiikimpote	40.	SHAGAMA Hertha M		
	41.	SHAPWA Hendrina N	42.	SHIGWEDHA Abia T		
	43.	SHIKULO Konekeni N	44.	SHOOMBE Christophina L		
	45.	TJIVAU Mbangoje	46.	TSAUSES Millen D L		
	47.	UUGWANGA Martina S	48.	VAN SCHALKWYK Pee-Rette		
	49.	VAN SCHALKWYK Arlyn	50.	VEIYO Vilho N		
	51.	ZAMUEE Kasukoo				



4.	BACHELOR OF EMERGENCY MEDICAL CARE (NQF:7)				
	1.	ALUEENDO Albertine T	2.	DAVID Elizabeth	
	3.	EMAMDIEN Shaquille A	4.	FILIPPUS Paulus	
	5.	GOAGOSEB Matthew J	б.	GRYFFENBERG Juan	
	7.	HAIHAMBO Paulina	8.	HAINGHUMBI Tukale-Pono P	
	9.	HAMPE Kyrah M	10.	HASHEELA Hilaria K	
	11.	MUTUMBULWA Sofia N N	12.	MWAAMENANGE Pinehas A	
	13.	NEHALE Tabita N N	14.	SHANGHETA Ottilie T J	
	15.	SHIKONGO Nam-Letu V	16.	SHILEMBA Wilho S	
5.	BA	CHELOR OF SCIENCE: BIOLOGY MAJOR (NQF: 7)			
	1.	AFRIKANER Estee V	2.	AKWAAKE Maria N	
	3.	DANIELS Michelle E	4.	ENGELBRECHT Lee-Ann	
	5.	GUILHEME Nicole N	6.	GULU Frieda N	
	7.	HANDURA Mercy U	8.	JOHANNES Julia T M	
	9.	KANDJII Kaizemi	10.	KARON Anchonette H R	
	11.	KASHONA Lusia N	12.	KAUTEWA Aron K	
	13	KAYAMBU Shakespare T	14.	MBERIRUA Mbitiita	
	15.	MOYO Nokungoba B	16.	MUYANDULWA Luswenvo D	
	17.	NAMWENYO Selma L N	18.	NGHIKEMBUA Natasha O N	
	19	SHILONGO David D	20	SIKABONGO Smthokozele	
	21	ΤΥΔΡΑ Τυγογε Ν Ρ	20.		
	21.	TARA IUVOye NT			
_	DAG		·		
6.	BAI	HELUR OF SCIENCE: CHEMISTRY MAJOR (NUP	·:/J		
	1.	ANDREAS Moses	2.	BRIMS Hazel G	
	3.	EICHAS Rahima R S	4.	FESTUS Lahja J T	
	5.	GAOSES Claudine J	б.	GARISEB Otniel	
	7.	IILONGA Justina K	8.	KAKOLOLO Trinity N H	
	9.	MATJILA Ramaano N	10.	MUNENGUNI Thikameni T	
	11.	NEKAMBA Innocentia K	12.	XOAGUS Lilien	
7.	BAC	CHELOR OF SCIENCE: PHYSICS MAJOR (NQF: 7)			
	1.	BERNHARD Ebben S	2.	BEZUIDENHOUT Dylan A	
	3.	DENTLINGER Chiminello N	4.	DIERGAARDT Chane	
	5.	KAVERU Unotjari	б.	LUKAS Rivaldo H	
	7.	MARTIN Anthon G	8.	MOKALENG Keikantsemang M	
	9.	MUCHILA Carin-Bibi M	10.	PAIVA Stella A S D S D C	
	11.	SHITUMBAPO Pomweene N			
б.	BAC	CHELOR OF SCIENCE IN AGRICULTURE: AGRIBU	<b>ISINESS M</b>	ANAGEMENT STRAND (NQF:7)	
	1.	KANDOROZU Nguundja K	2.	PIETERS Elraiza	
7.	BAC	HELOR OF SCIENCE IN AGRICULTURE: SUSTAI	NABLE AG	RICULTURE STRAND (NQF:7)	
	1.	AEBES Paulitha N	2.	AUGUSTYN Jandre	
	3.	GABRIEL Elizabeth	4.	HANGULA Lahia N	
	5.	HAUYAVE Paulus N	6.	HIYONANYE Erasmus	
	7.	KALOLA Selma N N	8.	LISWANI Kalonda F I	
	9	MCKAY Mona-Lisa N	10	MUTILIEA Flina P	
	J. 11	NANDIEMBO Selma N M	17	PAULUS   esheni 0	
	12	ROMAN Julieth I S	1/1	SIHOPE Ritah N	
	15.		16		
	17	SITENTILI azarus K	10.	VICTOR Selma N	
	10		10.		
	19.	VICTORTIIJa			



10.	). BACHELOR OF SCIENCE IN APPLIED MATHEMATICS AND STATISTICS (NQF: 7)			ATISTICS (NQF: 7)
	1.	BECK Marisha F	2.	ENGELBRECHT Malcolm L
	3.	HAMUTENYA Mahupe P	4.	HAUFIKU Sam O N
	5.	HAUFIKU Janet W	6.	HEITA Dionisius
	7.	HIDINWA Gord F	8.	IGULU Wilka I
	9.	IILEKA Hilma T	10.	KOITA Paul S
	11.	MAGADHI Lahya L	12.	MAJIEDT Elné S
	13.	NAMWANDI Tuhafeni M	14.	NAUKUKUTU Shetumana M
	15.	NGHISHEKWA Nehemia K N	16.	OLIVIER Zander B
	17.	POLLA Kristian T	18.	SHIVANGULULA Thamirah A N
11.	BA	CHELOR OF SCIENCE IN HEALTH INFORMATION	SYSTEMS	5 MANAGEMENT (NQF: 7)
	1.	ALFREDO Ester	2.	BUSSEL Guillian M
	3.	BUYS Meagan C	4.	DAMASES Jeren M
	5.	HANGULA Daniel N	6.	JOHANNES Julia T
	7.	KAMATI Tangeniomwene N	8.	KWEDHI Wilka N
	9.	MANDAVELA Paciencia	10.	MATEUS Kristoph
	11.	MBINGE Vemutonda	12.	MUNDIA Mildred N
	13.	MUTWAMEZI Mwaka B	14.	MUYAMBANGO Mpambo C (CUM LAUDE)
	15.	NDJARAKANA Ngumatjiua	16.	NGHALIPO George N
	17.	RASONA Melesa	18.	SHAPAKA Julia N
	19.	TJITENDERO Uja		
12.	BA	CHELOR OF SCIENCE IN HORTICULTURE (NQF: 7	]	
	1.	HAIMBODI Paulina	2.	KANYETU Fridolin K
	3.	NAMBALA Petrus P	4.	NYAMBE Given I
	5.	RIBEBE Petrus	6.	SHAAMENA Ignatius H
	7.	SIMEON Veronika N	8.	SINVULA Clara N
	9.	THIBAYI Mbambo		
13.	BAG	CHELOR OF NATURAL RESOURCE MANAGEMEN	IT (NQF: 7)	]
	1.	BATROMEUS Martin A	2.	HEITA Petrus A
	3.	IILONGA Amalia N	4.	IITA Martha T
	5.	LE ROUX Francois	6.	LOUW Tamsin A
	7.	MATALI Demol M	8.	MAZAI Paulinus M
	9.	MBOKOMA Rachel N	10.	MUBONENWA Balwizi C
	11.	MUKAYA Wilson S	12.	NEKUTA Maggy M
	13.	SIMON Jeremia S	14.	WASHINIME Adam K
14.	DIP	LOMA IN EMERGENCY MEDICAL CARE (NQF: 6)		
	1.	EMBULA Leonard S	2.	KAMATI Jonas
	3.	KANDINDA Sahryl L	4.	KOETLISI Jonase S
	5.	KUDUMO Leonard M	6.	MUKOYA Gervasius F C K
	7.	NAMWIHA Hendrina T		
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