



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

Graduation Programme

Theme: Towards Human Centric Innovations and
Sustainability

Date: Friday, 28 April 2023

Time: 08:00

Venue: NUST Lower Parking, Main Campus

Faculties of:

- Computing and Informatics
- Engineering and the Built Environment
- Health, Natural Resources and Applied Sciences

Academic Crest



The parts of the crest either represent national symbols or elements of a unique Namibian landscape and culture. the colours have been selected to represent the national spectrum, as influenced by the heritage from the Namibian flag:

Red: represents Namibia's most important resource, its people. It refers to their heroism and their determination to build a future of equal opportunity for all.

Blue: represents the clear Namibian sky, as well as the Atlantic Ocean, the country's precious water resources and rain.
Gold: represents life and energy (the sun).

Parts of the Crest

1. **The Atom** is one of the most basic recognisable symbols of science. Positioned under the sun it symbolizes science and technology as the foundations of illumination at the University.
2. **The Arch** is the threshold of knowledge. It is the gateway to the future and encourages a thirst for knowledge and discovery. Namibia becomes the threshold for new development - entering a new era.
3. **The Ribbon** is derived from the diverse traditional cultures of Namibian dress, amongst the Damara, Herero, Himba and Owambo groups; it is an extension of the red band representing people. It is a symbol of achievement and prestige, and recognizes traditional cultures of pageantry. the ribbon epitomises flexibility and adaptiveness by which NUST exemplifies and enables its students to achieve higher knowledge.
4. **The Sun** represents the outcome of scientific and technological innovation and enlightenment. Education is a form of discovery, energy and life that this symbol should highlight through its embodiment of the sun.
5. **The Shield** is the symbol of learning institutions (traditional) - signaling tradition, strength and readiness.
6. **The Red Band** represents the people and also blood, which gives life. People are the lifeblood of the University and country. It refers to their heroism and their determination to build a future of equal opportunity for all. the position of the red band represents 'crossing over the threshold'.

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NUST Council and Office Bearers

HONOURABLE PROFESSOR PETER H KATJAVIVI, MP (CHANCELLOR)

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

MS FLORETTE NAKUSERA (CHAIRPERSON)

Cert (International Exec Dev Prog), Cert (Exec Dev Prog), BComm (Econ, Mgt Sc & Audit), BCommH, MComm (Econ)

DR MICHAEL HUMAVINDU (DEPUTY CHAIRPERSON)

MSc (Finance & Investment), MA (Econ), PhD (Econ)

MR MUESEE KAZAPUA

Cert (Local Grn Admin), Cert (Dev Mgt Prog) Cert (Eng for Bus), Dip (Youth Dev), BAarts (Youth Dev)

MR CONRAD LUTOMBI

Certificate (High Perfor Leadership), Dip (Pol Sc), Intl Dip (Road Saf Mgt), BTech (Pol), LLB, MSc (Leadership and Change Mgt), MBA

MS KADIVA HAMUTUMWA

Dip (Int Water Res Mgt), BART (Psych), BCom H (Ind Psych), PG Dip (Mgt Strat)

MR TOMAS IINDJI

Cert (Econ Bankers), Dip (Fin Services), MBA

MS KATRINA THOMAS

BEng (Electrical & Electronic Eng), PG Dip (Bus Admin)

MS ELIZABETH U KAMUTUEZU

BEcon, BPhil (Sust Dev Plng and Mgt); Grad Dipl (Leadership Dev in ICT and Knwl Soc); MA (Leadership Dev in ICT and Knwl Soc); MBA (Intl Bus)

DR 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)

DR ANDREW NIIKONDO (DEPUTY VICE-CHANCELLOR: TEACHING, LEARNING AND TECHNOLOGY)

Dip (Public Admin), BTech (Public Mgt), MA (Public Admin), PhD (Public Admin)

DR COLIN STANLEY (ACTING DEPUTY VICE-CHANCELLOR: RESEARCH, INNOVATION AND PARTNERSHIPS)

ND (Software Eng), BTech Hons (Software Dev), MSc (Comp Sci), PhD (Comp Sci)

ASSOC PROF SIFISO NYATHI (SECRETARY TO COUNCIL)

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

DR ERLING KAVITA

Senate Representative

BPhil (Tourism) (*Cum Laude*), MA (Tourism), PhD (Tourism Mgt)

MR EPAFRAS P SHILONGO

Staff Representative: Academic

Dip (Power Eng), Dip (Taxation & Mgt), BTech (Power Eng), PGD (Procurement Mgt), MSES (Sus Energy Sys)

MS JUANITA FRANS

Staff Representative: Administrative

Cert (Project Mgt), Dip (HR Mgt), MBA

MS MARTHA AMBABI

SRC President

BMktg



Executive Deans of Faculties

FACULTY OF COMMERCE, HUMAN SCIENCES AND EDUCATION

Prof Efigenia Semente

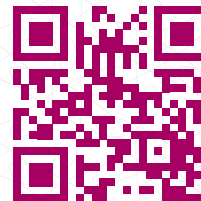
Cert (Innovation and Strategic Bus Mgt), Cert (First Aider), Dipl (Secretarial), Dipl (Marketing), BTech (Marketing), PGCert (Higher Edu), PGCert (Marketing), MSc (Marketing), MBA, PhD (Bus Admin)



FACULTY OF COMPUTING AND INFORMATICS

Prof Fungai Bhunu Shava (Acting)

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



FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Prof Harmony Musiyarira

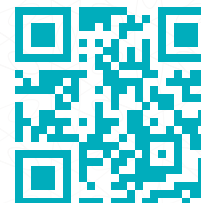
BSc Hons (Met Eng), MSc (Eng), PhD (Eng)



FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

Dr Onesmus Shuungula

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





Programme

Date: Friday, 28 April 2023

Time: 08:00 - 12:00

Venue: NUST Lower Parking, Main Campus

Presiding
Dr Eroid Naomab
Acting Chancellor

Director of Ceremonies
Ms Kuda Brandt
Science and Innovation Communicator

National and AU Anthems

Prayer

Mr Valentine Nell
Office Manager: HP-GSB

Constitution of the Congregation

Acting Chancellor

Welcome Remarks

Dr Eroid Naomab
Vice-Chancellor

Interlude

Savannah Afros

Remarks

Ms Kumbee Tjirongo
SRC Vice-President

Statement

Ms Florette Nakusera
Chairperson of Council

Interlude

Savannah Afros

Guest Speaker

Ms Mercia Geises
CEO: Standard Bank Namibia

Interlude

Savannah Afros

Conferment of Qualifications

Acting Chancellor

Presentation of Candidates

Prof Fungai Bhunu Shava
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

Interlude

Savannah Afros

Confirmation of Conferred Qualifications

Acting Chancellor

Vote of Thanks

Director of Ceremonies

Dissolution of the Congregation

Chancellor

AU and National Anthems



Proceedings during the Ceremony

The Director of Ceremonies will direct the proceedings.

1. Candidates and guests must be **seated by 08:00**.
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 Acting 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, Bachelor Degrees and Honours 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 Acting 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.

Sponsors



Undergraduate Qualifications





FACULTY OF COMPUTING AND INFORMATICS

Candidates presented by the ACTING EXECUTIVE DEAN: PROF FUNGAI BHUNU SHAVA

1. CERTIFICATE IN ADVANCED WEB TECHNOLOGIES (NQF: 7)

IINDONGO Frieda I

ILEKA Levi M

NAKALE Alfonso P N

NEKWAYA Joel N U

NEVONGA Tresia N

SHILONGO Filippus J

2. CERTIFICATE IN BIG DATA TECHNOLOGIES (NQF: 7)

AMPUTU Rendemptus

ANDREAS Johannes S

COSTA Carlos D C

HAFENI Festus T

HAIXULA Petrus H

HAMUNYELA Lineekela N

INDONGO Alice-Ally W N

IPANGELWA Mulanduleni

KASOZI Hector T M

KAURIMUJE Vemuna

NAKASHONA Kevin J M

NANGOLO Erasty A C

NGHIHEPAVALI Pombili I M

RIJNEN Hileni

SANTUNDILA Robert M

SHIDOLO Saima N

SHILONGO Crethe M D

TAWANA Lydia L

TJIUMBIRUA Makaisapi

UMANA Sylvia P

3. CERTIFICATE IN ETHICAL HACKING AND INFORMATION SECURITY (NQF: 7)

ANGHUWO Ondemuvina L

HAINGHUMBI Mispa N

NAKALE Penehafo R

NGOLO Theo S S

SHIMHANDA Tuliiken

4. BACHELOR OF COMPUTER SCIENCE: COMMUNICATION NETWORKS (NQF: 7)

AIYAMBO Onesmus S

AKUUNDA Johannes N

BENHARD Joseph J

IILEKA Frans I M

KAMBONDE Silas M

KAPENDA Kornelius I

KENDA Jonathan "CUM LAUDE"

KLEIN Gianni A T

MAKHUBELA Fermeru S

NAMPINDI Matheus N W

MWAPOPI Tangeni N K

NKUWU Mbemba J

SHITANA Marandy M N

SHINKAULENI Isak N

TJIHAVERO Wensten N

WEYULU Jeremia S

5. BACHELOR OF COMPUTER SCIENCE: SOFTWARE DEVELOPMENT (NQF: 7)

ADRIAANS John C "CUM LAUDE"

KATJIZUKO Uahengisa L

MATEKE Siphon "CUM LAUDE"

MAYINOTI Lemuel

MENDES Jason T O

NAUYOMA Petrus N

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

/NARIS Oswaldine O

AYINDE Abdoul-Ganiou O

BARANDONGO Marilene C B

CLAASEN Edwin F

ENGELBRECHT Engela C

ISRAEL Oskar-Calle

KAFIDI Mirjam

KAUMA Lucien K

MHURIYENGWE Tatenda

MUNYANDI Shanice R

NAKASHOLE Sir-Pandeni

NASHEYA Iyaloo N T

NAWASES Jusmine E

NEEMA Erobbie E



NGALANDJI Joseph N	SIMATAA Simasiku L
SIBALATANI Akayombokwa J B	TOBIAS Nghihpavali P
TOKUNDU Andreas M S	
QUIZOLA Belmiro B V	
7. BACHELOR OF COMPUTER SCIENCE IN CYBER SECURITY (NQF: 7)	
MAFWILA Thebuho C	MUNGUNGU Imagine N N
NATHINGE Ted-Kevin F	SHEKENI Samuel N
SHIIKWA Maria N	SHIVUTE Basilius L
SIMON Alfeus	SIPETA Andreas K M
VAN WYK Kaye-Lynne R	
8. BACHELOR OF INFORMATICS NQF: 7	
FERDINAND Wirson S	ITOPE Martin S
JOSEPH Shikongo L	KAMATI Marx N
KANDJEMBE Tana	KANUKU Oscar U
MADAMOMBE Isheanesu	MUTI Aaron M
MUTOMEKA Elifas K	MUTOTA Simion
MAULUNDANGE Lukas S	NAKALE Johannes P
NAKASOLE Linda E	NAMUA Theo P
SHANGULA Jeremia	SHIKONGA Jona N
UGULU Vistorina M	
9. BACHELOR OF JOURNALISM AND MEDIA TECHNOLOGY (NQF: 7)	
CLARK-UROVWOSE Topaz O	EHLERS Karl
HAUSIKU Rejoice	JANTJIES Ashley J
KAMBUNGU Iina N	KAZOMBAUE Uazuva A
MALAMBO Angels L	MURAMBA Ngarune S L
MUYENGA Hope S	NAKASHOLE Puyeipawa L
NEHEMIA Jekonia M	PAULUS Kapangurua J
SHALIHAXWE Erasmus N	THIREMO Mbumba N
UAMUNIKA Chester	VEII Okeri M



FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT

Candidates presented by the EXECUTIVE DEAN: PROF HARMONY MUSIYARIRA

1. NATIONAL CERTIFICATE IN ENGINEERING (CIVIL AND PROJECT MANAGEMENT)

AMUTENYA Helena N

KABUKU Gaza N

NAIMHWAKA Rosamunde N P

NAMWANDI Sitianus A

DECELESTINO Richard H

KAVETO Regina S

NAMUKUWA Michael S

2. NATIONAL CERTIFICATE IN ELECTRONIC ENGINEERING

KASUTO Booth

3. NATIONAL CERTIFICATE IN MECHANICAL ENGINEERING

BENADE Jaque A

JANTJIES Nasstasschja N

4. NATIONAL CERTIFICATE IN POWER ENGINEERING

SIMUKETA Paulus W

5. NATIONAL HIGHER CERTIFICATE IN ELECTRONIC ENGINEERING

IITA Elago Kambidhi T

KASUTO Booth

6. NATIONAL HIGHER CERTIFICATE IN ENGINEERING (CIVIL AND PROJECT MANAGEMENT)

DECELESTINO Richard H

KAVETO Regina S

NAMUKUWA Michael S

OLIVIER Nolene B

KABUKU Gaza N

NAIMHWAKA Rosamunde N P

NAMWANDI Sitianus A

SHILULA Pernalie N

7. NATIONAL HIGHER CERTIFICATE IN MECHANICAL ENGINEERING

BENADE Jaque A

SHIKONGO Joel T

JANTJIES Nasstasschja N

8. NATIONAL HIGHER CERTIFICATE IN POWER ENGINEERING

KAVETUNA Mbatjiua

SIMUKETA Paulus W

9. DIPLOMA IN CIVIL ENGINEERING (NQF: 6)

ELIFAS Andreas N

HOEBES Faith A

HARTLEY Uriah N M

10. DIPLOMA IN ELECTRONIC ENGINEERING (NQF:6)

KALIMBO Tangeni M T

11. DIPLOMA IN MECHANICAL ENGINEERING (NQF: 6)

AMULUNGU Martin L

FARMER Juandre A

ITA Laures A

KATJINAANI Metuapi

NDINOSHIHO Nawa J

EKANDJO Amutenya H

HAMUKWAYA Mike N

KARIMBUE Herman

MUHUURE Uaatjo

NYUMBU Thomas M



12. DIPLOMA IN POWER ENGINEERING (NQF: 6)	
HAMUKWAYA Aili N	HIFIKEPUNYE Felicia P
JEREMIA Maria N	MUTILIFA Sem
PAULUS Collen J P	PETRUS Simon N
SHIKONGO Josef K	UIRAB Hatago F A
13. DIPLOMA IN GEOMATICS (NQF: 6)	
KANDUNDU Glenn L K	
14. DIPLOMA IN PROPERTY STUDIES (NQF: 6)	
NEKUNDI Shilongo L I	THOMAS Johanna N M
THOMAS Tiofelus T	
15. NATIONAL DIPLOMA IN ELECTRONIC ENGINEERING	
KASUTO Booth	IITA Elago K T
16. NATIONAL DIPLOMA IN ENGINEERING (CIVIL AND PROJECT MANAGEMENT)	
BOOIS Hugh D B	DECELESTINO Richard H
KAVETO Regina S	NAIMHWAKA Rosamunde N P
NAMUKUWA Michael S	OLIVIER Nolene B
SHILULA Pernalie N	
17. NATIONAL DIPLOMA IN MECHANICAL ENGINEERING	
BENADE Jaque A	JANTJIES Nasstasschja N
SHIKONGO Joel T	
18. NATIONAL DIPLOMA IN POWER ENGINEERING	
KAVETUNA Mbatjiua	
19. BACHELOR OF ARCHITECTURE (NQF: 7)	
!AEBEB Justin !G	ANGULA Tiina N T
AMUNIME Toivo N	ANTINDI Kaino F N N
CABINDA Ricardo Z	DE KOE Shannon C
DELIE Giovanni R	DENK Aiden A
DUBE Methembe S	KALIMBO Tangi-Etuna M
KAMELA Fatsani O	MBADHI Ndilimeke N
MOLOI Dimpho-Dintle	NANKELA Junior-Steps T
NFWAMBI Prinsloo N	PANKRATIUS Gregentia
PATOKO Isanias H	SCHULTZE Samantha
SEIBES Romancia J	SHIHEPO Victory T
SILVA Ana M T D	THIKUSHO Mcclay M
TJAZUKO Ingeborg I	
20. BACHELOR OF ENGINEERING: ELECTRICAL POWER	
LIKANDO Bongani	TITUS Nuuyoma
21. BACHELOR OF GEOINFORMATION TECHNOLOGY (NQF: 7)	
KLIM Lesley D	MAMBIMBO Rachel

**22. BACHELOR OF GEOMATICS (NQF: 7)**

BRENDLEL Eu-Word R

IUKUYU Ruth N

MWAZI Mwane

SHIVOLO Fillipus S

UUKULE ElifaS T

GROENEWALDT Emilio C

KWALA Karl K

NDEUNYEMA Etuna W

STRAUSS Wayne C

WILSON Gino C P

23. BACHELOR OF LAND ADMINISTRATION (NQF: 7)

EDWARD Loini M

KALUME Lott R

KAZONDUNGE Vevangapi

NGOLO Jacobina K

SHIWEDA Haipinge T

FESTUS Kuume

KANDIBA Albertina N

NDIVAYELE Owen

NOWA Gerson T

WITBOOI Luciyano A

24. BACHELOR OF QUANTITY SURVEYING (NQF: 7)

FLUCKS Heinrich M

IIMBILI Niinane T

KAANGUNDUE Avihe

MAKODZA Tafadzwa

MUMANGENI Lomanus

NGALAGOMBE Ndilimeke N N

POLSTER Kian

SHIPEPE Rebbeka M

VAN NEEL Riduan R

IILEKA Amwaama I

ITHINDI Rosa O

LIKANYI Gospel

MASIYIWA Taropafadzwa M

NARUSES Jane U

NUJOMA Future F N

SHILAMBA Andreas S S

USURUA Vevangapi R

25. BACHELOR OF REGIONAL AND RURAL DEVELOPMENT (NQF: 7)

DISHO Michael

TJIPUEJA Tjingeje

EKSTEEN Sebastiaan W

26. BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING (URBAN)

ASHIKOTO David G P

GARISEB Marchell M

HAIPA Norbeth M

IPINGE Henry N

KOMEYA Gabriel J

NAFTALI Ester M

NELUMBU Nelumbu U S

OBERHOLSTER Armin D

SHAJANONGHOSHI David

WILLEM Paulus

ENOS Eliakim P N

HAINDONGO Jackson H M

IHAMBO Megameno N F

KAMBWALE David T

MIEZE Kevin I

NAIMBANGU Petrus P

NGOLOTI Jacobina S

RUSWA Rufaro

SHANINGWA Karlus N

27. BACHELOR OF TECHNOLOGY IN ELECTRONIC ENGINEERING

KAYEMBE Joseph

28. BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING

ANDREAS Johannes

FOURIE Morne J

HARADOEB Josua J

IITA Thikameni S N

AWALA Paulus I

HAITEMBU Dalondoka H

HAUFIKU Enos A

KASHILE Lucas E N



NAKALE Aipinge B	NEMBWAYA Johannes
SHIKOMBA Iyambo E	SHIVUTE Eliaser T
VAN WYK Franciscus A D	
29. BACHELOR OF TECHNOLOGY IN POWER ENGINEERING	
DAVID Maija-Lisa P	HAIMBANGU Gabriel N
MAFALE Gift M	MBWALE Ndapewelao
NDLOVU Benaiah P	SHANGANO Joolokeni N
SIBINDA Edward K	TJAMBURO Okeri
30. BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING (NQF: 7)	
EMVULA Namumbanduka W	FARMER Juandre A
KATJINAANI Metuapi	MILLER Heinrich M
NDONGO Isak T	SHEELEKENI Brasius M
31. BACHELOR OF TOWN AND REGIONAL PLANNING (NQF: 7)	
INOUE-/GAWASEB Vivian F J	DE KLERK Jade
EGUMBO Heimo H	FILLIPUS Efa-Aishe M
IILONGA Andreas T	KAHENGOMBE Natasha U U
LUKAS Lavinia N	MOFUKA John N
MOLLER Jody-Rae L	MUHONGO Hilikka
NAMBAHU Hilma N	NEMBENGE Martin P
NEUMANN Darryl S J	NGHIPUNDUKA Carolyne K
PERSAUD Frieda V G	RODER Lophe-De I G
SHAPUMBA Johannes T	SHIMWENENI Messias S
32. BACHELOR OF ENGINEERING IN CHEMICAL ENGINEERING (NQF: 8)	
AWENE Barakias T T	AMOOMO Beath K
KALANJA Tshovu J	KANIME Andreas
KUVARE Peneyambeko	NAKAMWE Liina N
NEMAIRE Terry	
33. BACHELOR OF ENGINEERING IN CIVIL ENGINEERING (NQF: 8)	
CHIRAMBADARE Tapuwa T	CHIZENGEYA Edmund D
DE KLERK Jean-Dee	DIERGAARDT Louise-Cj
KAMBAZEMBI Raja W	KARONDO Petrus K H
KAZOHUA Ratjirarue	MUHINDA Attie L
NAHAMBO Simeon T I	NEKWAYA Monika N
SHATILWE Amenenge E	VEII Carlo K
34. BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING (NQF: 8)	
HIGOAM Dry-Genice	KAMAPUNGA Anton M
LOUMOUAMOU Kimia J O	MBENZI Wilbard N
NDUNA Simba E	VAN SCHALKWYK Raymond



35. BACHELOR OF ENGINEERING IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING (NQF: 8)

HAMUTENYA Tevin B E

MABHENA Shepherd J

MUFIKA Shiwomwenyo

NDIFON Emmanuel O

MABHENA Tumelo

MBANGU Diedricks S

NAINGWENDJE Festus N T

36. BACHELOR OF ENGINEERING IN ELECTRICAL POWER ENGINEERING (NQF: 8)

AMUKUGO Kornelius N

HANGULA Abed-Nego M N

MNUBI Fatuna J N

NAKALE Matheus H

SHAANIKA Mupeniwo S

SHIRUNDA Oliver S

TANENI Fillipus V

AMUNYELA Petrus M

MATEUS Maria P

MUBONENWA Affary L

PANZO Caridade J

SHADUKA Trioivic N

SIKONGO Augustinus K

UUPINDI Jacob P K

37. BACHELOR OF ENGINEERING IN INDUSTRIAL ENGINEERING (NQF: 8)

AWENE Erkkie T O T

NGHAALUKAKO Elvi T

NEAS Saltiel H

SHILONGO Tangi K

38. BACHELOR OF ENGINEERING IN METALLURGY (NQF: 8)

DAVIS Donne A

SALKUNGA Candice

SIBUKU Kamwi R

MUZENGUA Kuhatjiua J

SHANINGA Bernadine N H

40. BACHELOR OF ENGINEERING IN MINING (NQF: 8)

BESSA Djamila N D

HAUKAMBE Otja M

LOTHO Josephina K M

SIBANDA Patience N

GNEME MBOMBI Joss J C

KWEYAMBA Archard J

MULYATA Rauna M

SUNGAYI Mark M

41. BACHELOR OF PROPERTY STUDIES (NQF: 8)

AMON Mekwafo T

HOSEA Ndafelenga H

JUNIAS Johannes A

KATJIUANJO Uapingena

LAKSMAN Grace M B

MBULU Tobias M

NAKALE Selma N

NDAKOLUTE Syria N

NGHIFIKWA Tuyakula F S

SHIPANGA Wycklif N N

TJIPETEKERA Vemujeka C A

AMUNYELA Emilia T T O

ISRAEL Olivia N

KAHUNGI Jatandapi

KATONDOKA Vaino

MAKASA Nkole

NAANDA Benhart N

NAMBAHU Ester T

NDAUMBWA Ester I

SHINANA Vanessa T T M

STEIN Amber S

ZAIRE Okeri U

FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES

Candidates presented by the EXECUTIVE DEAN: DR ONESMUS SHUUNGULA

1. DIPLOMA IN EMERGENCY MEDICAL CARE (NQF: 6)

HENDJALA Ndemulumba M N
NDINOHAMBA Lazarus N
SHIIMI Inekela O

MULE Larsen J
SHAPUMBA Dorte P N
UUYUNI Michael J

2. BACHELOR OF AGRICULTURE (NQF: 7)

LINYANDO Zinedine L

NDJAVA Hendrik J S

3. BACHELOR OF EMERGENCY MEDICAL CARE (NQF: 7)

AMBAMBI Martinus I
JANKOWSKI Egon E
KANYINDA Dieunovic
MOSES Inekela L
NAMHINDO Paulus M
SIMSON Joseph A
TOMAS Helena K N

ANGULA Agnes N H
KANIME Aili N
MHUNDURU Yanano
MUNGUNGU Paulus N
SHIKEMENI Michael N S
SYEDA Schelechin

4. BACHELOR OF SCIENCE: BIOLOGY MAJOR (NQF: 7)

DAKA Phillip D
HAIHAMBO Lydia
HALIFELI Nankole R
KAMBONDE Emily N K
KISTING Chinnique A
MBAHUMA Kautezeua Y
NANGOLO Amalia N
RIX Charlize L "CUM LAUDE"
SALUFU Minsozi C
TJIJENDA Calvin K N
VANDINGANAYI Justy N

EDWARD Mateus H
HAIPINGE Hafeleni B E
KAKAVIRE Metarere U
KAZOHUA Tukee M
MATHEUS Helvi N
MOWES Mauricia M
NOUSES Charmaine F D
SHETUNYENGA Julia P
SHANINGWA Tresia N
VAN WYK Camryn
VATILENI Ailli C N

5. BACHELOR OF SCIENCE: CHEMISTRY MAJOR (NQF: 7)

AMADHILA Fenni M
ITHINDI Job T
LUMBU Hileni M P
NAMWANDI Hilma

IYAMBO Gottfried K
KAUPITWA Lydia
MABAKENG Prince M
RUDOLF Erastus S

6. BACHELOR OF SCIENCES: PHYSICS MAJOR (NQF: 7)

ABNEL Lovis
AMWANDANGI Helena N
GABRIEL Immanuel M
JAKOB Martha K
JOHANNES Tulyaameni S
KAUVEE Ningiree
MEINTJIES Jerline

ALFEUS Abraham N V
DE JONGH Vionne L
GAINGOS Maria T
JATAMUNUA Unondjamo K
KAMBATA Lucia N
KISTING Lezine S
NAMATAMA Given A



NEKUNDI Lauryn L	NKWAZI Slyskein J
NYAMBE Lubinda M	SHIHEPO Ndino-Mwene H
SHILONGO Wilbard U	TANGA Thandiwe L
TOMAS Saarmie T I	
7. BACHELOR OF SCIENCE IN AGRICULTURE: SUSTAINABLE AGRICULTURE (NQF: 7)	
KASUNGO Rodney L	KALWENYA Jennifer N
8. BACHELOR OF SCIENCE IN APPLIED MATHEMATICS AND STATISTICS (NQF: 7)	
DONGWI Beata L	HAIPUMBU Wensent S
HAUSHONA Helaria N	HUMBWAVALI Malakia N
IMMANUEL Petrus	JUNIAS Niilonga
KAMELO Hafeni	KAPWANGA Ndapewoshali K J
MAJONI Phinias	MATEUS Rovisa
MUHEPA Johnny M	MULYATA Racheal K
MUNEHALAPEKE Ritumua	MUNZENZE Maxie S
NGHISHIYELEKE Natangwe M	RUUNDA Muandojeratji
SCHROEDER Sonique C	SHAIKH Kaleem S T
SHOMONGULA Isascar	THOMAS Johannes
WILHELM Hambeleleni N	
9. BACHELOR OF SCIENCE IN HEALTH INFORMATION SYSTEMS MANAGEMENT (NQF: 7)	
AIPINGE Ismael M	AWENE Elsie H
BALOWA Karibu	CHAKA Namakau
CLOETE Britney A	FILLEPUS Eva T
HAINDONGO Fredinand	HAMUKWAYA Josef T
HAUKENA Hafeni K	JOHANNES Rosalia N
KAMUNDU Vetiraije	MATOMOLA Justina M
NANGOMBE Tangi L	PAULUS Petrina N
SHEYA Johanna N M	SHIWENDA Teofelus N
TJIRAMBA Tunaje P	UPINGASANA Shalom N K
10. BACHELOR OF SCIENCE IN HORTICULTURE (NQF: 7)	
GITHINJI Tijara M	HAIHAMBO Emma T
NANGOLO Hileni N	
11. BACHELOR OF NATURAL RESOURCE MANAGEMENT: NATURE CONSERVATION (NQF: 7)	
HISHIKUSHITYA Johannes	JOHANNES Timoteus T
KALENGA Ester T	KATIVA Paulus K
KEJA Mburae	MOONGO Magano N F
NAIKAKU Secilia M	NCHINDO Sankwasa
NDUNDU Shikongo S H	NUUGULU Noah M
TREDOUX Monique	
12. BACHELOR OF ENVIRONMENTAL HEALTH SCIENCE (NQF: 8)	
ALWEENDO Iyaloo E	BIWA Morgan W
CHILESHE Jennifer M	CHIMBAYA Robert D S
CLARKE Caylynne C	HAINDONGO Erikka T
HELAO Emma N K	JESAYA Martha



KAANDUKA Natanael N	KAKISHI Paula K
KAMBUNGA Julia S	KANDJII Asser
KAPOFI Elia S S	KAPWEYA Angelina N
KAUNONGWA Rika S	KOTZE Gerhardt J
MATHEUS Sylvia D T	NAKASOLE Hosea N
NANYINZA Nachilembe	NDJABAYONDUME Hilka T
NGHIDENGWA Ndateelela	NGHWADA Justine M
SEVERUS Kortilde	SHAPAKA Ester I S
SHEKUDJA Asteria Z	SHINDUME Tuwilika N
SKEPER Siegfried	TIOFELUS Tusneld N
TOTWE Onkaetse R	

10. BACHELOR OF HUMAN NUTRITION (NQF: 8)

ABEL Julia	HAMUKWAYA Matheus N N
IITULA Maria T	ISHINGA Katrina N
KAHIUQUA Suveree V	KAHUURE Ngerimo U
KALOMHO Ndapewa M	KANGONGO Liina J
KARONGA Ottilia	LUZOLO Graca M J
MAKAMANI Tadiwanashe	MATJAYI Bacilia K
MBANGULA Ndaendelao P	MBUALALA Fakushishi S P
MWANDINGI Martha	NDAFONGHOSHI Paulina N P
NGHIDIMBWA Martha	PIETERS Blanche R
SABATHA Lee-Ann M K	SHIVUTE Aina N
SIMON Dorthea	TSHANGULA Anna T
UUSHONA Hilka M	

11. BACHELOR OF MEDICAL LABORATORY SCIENCES (NQF: 8)

AMOOMO Paulina N K	AMUTENYA Ottilie S
GROENEVELD Renodine M	HAIKALI Natalia T
HAMUNYELA Rosetta T T "CUM LAUDE"	IISHUNA Sevelina T
IITA Airah M J	INKONO Hilma L
JUNIAS Ndatitangi E W	LUMUENO Margarida S
MANGUNDU Pehovelo T O	MWETULUNDILA Tuwilika N
NAMBONDI Soini T	NDALA Addy M
NDEIWEVA Foibe N	NEHEMIA Selma
PAULUS Menete I N	SHIKONGO Johanna
SHILEKA Pankratius K	SHIMWEEFELENI Shangela S
TJANGURA Roseline R	VAN ROOYEN Jeandrew S
WINKLER Micayla	

Higher Degrees and Postgraduate Qualifications





FACULTY OF COMPUTING AND INFORMATICS

Candidates presented by the EXECUTIVE DEAN: PROF FUNGAI BHUNU SHAVA

1. BACHELOR OF COMPUTER SCIENCE HONOURS: COMMUNICATION NETWORKS (NQF: 8)

ASHIVUDHI Efraim	ASHIVUDHI Magnus I
AUSIKU Matumbo A B A	FESTUS Leonard T
HAITAH Eben	HAUNDJANGI Ariete F
KANDUME Kleopas L	KATOKO Gerson
SHIKONGO Max T T	SHIMBASHIKE Immanuel I N
UUGWANGA Johanna N	

2. BACHELOR OF COMPUTER SCIENCE HONOURS: DIGITAL FORENSICS (NQF: 8)

AMUKWA Andreas S	ANDREAS Hertha I
GAWISES Erica E E M	IIPUMBU Ericky "CUM LAUDE"
ITHINDI Hilya T	MARTINS Jurema D
NGHIPUNYEME Ruben	NDAKOLO Joseph
SHIMWINO Rachel	

3. BACHELOR OF COMPUTER SCIENCE HONOURS: INFORMATION SECURITY (NQF: 8)

FREITAS Immanuel P	HAINGURA Michael M
IDIPO Zenane N	ILEKA Johanna N S
IPANGELWA Mwetulamba	KAPUKA Simon
MUBWANDARIKWA Joseph	

4. BACHELOR OF COMPUTER SCIENCE HONOURS: SOFTWARE DEVELOPMENT (NQF: 8)

BUNGA Armando P	CHIMBA Edward S
GARISES Stefanie B R	HWAIRE Takunda G
KANENGONI Tinashe C	MAKOSA Isaac
MOUTON Hubert P	NUUNYANGO Clemens N
PETER Kaulyaalwa N N	SACHEUS Cathleen R
UCHEZUBA Kingsley C	

5. BACHELOR OF INFORMATICS HONOURS: BUSINESS INFORMATICS (NQF: 8)

AMPUEJA Ndapanda L	JAFET Gabriel M
MUSILIZO Mabuta A	MUTOTA Patrick P
NAKALE Immanuel N S	NAKALE Ndamona J
NAMBINGA Nghishidimbwa T	NHAMU Tanaka
PAULUS Rebbeka	SHIPENA Ndamononghenda I

6. BACHELOR OF INFORMATICS HONOURS: WEB INFORMATICS (NQF: 8)

MUTORWA Ogame F N	PHIRI Anthony C
VAINO Vaino D	

7. BACHELOR OF JOURNALISM AND MEDIA TECHNOLOGY HONOURS (NQF: 8)

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KADHILA Anna T	KAMINZI Matty K
KAMURE Kerly J	LINUS Lamyaa L



MULWA Emma N	MUNYANDI Nicky M
NASSAUW Christell C	NGHIMULITETE Rachel P
SIMEON Josephina T	WERNER Talishi R
8. POST GRADUATE CERTIFICATE IN INFORMATICS: INFORMATION SYSTEMS AUDIT (NQF: 8)	
/HUISES Paula P	AMUKWA Ananias
ANDREW Regina W	ASINO Loini H K H
ANGULA Laina N	DAVID Andreas S
DAVID Elise N	FREDERICKS Asinamali
INDONGO Mukaliko T	ISHITILE Petrus E S
IYAMBO Loide	KAFIDI Napandulwe U N
KAVUNGO Rauha B	KAXWADI Leslie N
KIDO Henriette J	KOTZE Stephanie E
MAKUCHETE Steve T	MANGUNDU Bruno M "CUM LAUDE"
MTEMBI Nghilifilwa S N	MUHONGO Erasmus M
NAKALE Erich T L	NDJAVERA Wesley M J
NEHALE Victoria H N	SHIKONGO Taapita P
SILUMBU Adolph S	SIMEON Ndaamakunye
9. MASTER OF COMPUTER SCIENCE (NQF: 9)	
CHITAKUNYE Rumbidzai	Thesis: Development of an Ethnobotanical Database and Mobile Applications with and for Indigenous Ovahimba Communities Supervisor: Prof Heike Winschiers-Theophilus Co-Supervisor: Dr Vera De Cauwer
KAKWAMBI Ndesihafela	Thesis: A Predictive Location Model based on Mobility Data for Human-Crocodile Conflict Management Supervisor: Prof Guy-Alain Zodi Lusilao
10. MASTER OF INFORMATICS (NQF: 9)	
ERNEST Esther L	Thesis: Framework for Data Protection and Privacy in Data Service Centres in the Public Sector: A Case of the Ministry of Defence and Veteran Affairs Supervisor: Prof Jude Osakwe Co-Supervisor: Mr Isaac Nhamu
KASHUPI Tokolo N	Thesis: A Recommender Framework for Bridging the Skills Gap between Higher Education Training and Industry Expectations: A Case Study of Data Science in Namibia Supervisor: Dr Edmore Chikohora Co-Supervisor: Ms Ruusa Ipinge
NAMUTENYA Mewiliko J	Thesis: An Integration Model to Enhance Information Systems Administration and Data Sharing - A Case of Namibian Lower Courts Supervisor: Dr Irja Shaanika
MUROTUA Ennethe	Thesis: A Framework for Open Government Innovations in Namibia Supervisor: Dr Gloria Iyawa



NAFUKA Filippus I	Thesis: An Enterprise Architecture Framework for the Integration of Government Social Grants Information Systems Supervisor: Dr Irja Shaanika
PAULUS Elizabeth	Thesis: A framework for aligning Big Data driven implementation plan in Telecommunication organisations in Namibia: A case study of MTC Supervisor: Dr Edmore Chikohora
11. MASTER OF JOURNALISM AND MEDIA TECHNOLOGY	
AMAGOLA Elizabeth N	Thesis: An exploration into the impact of community participation and inclusion in the running of and content production for Ohangwena community radio, on its long-term sustainability Supervisor: Dr Phillip Santos
GOWASES Dina	Thesis: A comparative study of nation branding in post-apartheid countries: A case study of Namibian and South African tourism websites Supervisor: Dr Phillip Santos
MAFALE Masiyaleti	Thesis: A reception analysis of the Social Life Issues programme on Ñwanyi FM by the Kabbe South Community Supervisor: Dr Nkosinotando Mpofu
NGHIDINWA Setson N	Thesis: A Needs Assessment for Digital Media and Skills in Selected Government Schools: A Case Study of Schools in Kavango-East Region Supervisor: Dr Hugh Ellis
NYIRENDA Agnes N N	Thesis: An Evaluation of Information and Communication Technology (ICT) Platforms employed in Stakeholder Engagement by the Ministry of Home Affairs, Immigration, Safety and Security in Namibia Supervisor: Dr Chudey Pride
ZIMANYI Tawanda	Thesis: An Investigation into Ethical Issues of Reporting Development about the San and Himba Communities by the New Era and The Namibian between 2015 and 2020 Supervisor: Dr Phillip P Santos



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

EJEMBI Emmanuel

Thesis: Bi-Model System Failure Analysis

Supervisor: Prof Shawulu Nggada

Co-Supervisor: Prof Jose Quenum



Abstract:

Modern engineering systems are becoming more computer-controlled than mechanical due to the incorporation of hardware and software functions. The composition of hardware and software in the system presents challenges in the analysis of both hardware and software failure. Typically, traditional safety analysis techniques, such as Failure Modes and Effects Analysis (FMEA), Fault Tree Analysis (FTA), Event Tree Analysis (ETA) as well as Hazard and Operability Studies (HAZOP) are well established in analysing hardware systems. These are more pronounced in traditional engineering fields, such as electrical, mechanical, and civil, but less in software engineering. On the other hand, software failure analysis is aimed at investigating how the software system would fail, thereby proffering interventions. For instance, enumerating the events that could lead to such failure and the ability to suggest mitigating measures that would minimise such failure is paramount to system dependability. Such analysis is performed on the model of the system [e.g., its architecture, either conceptual or logical]. In this work, we use FMEA to perform failure analysis of a bi-model system. First, we perform a failure analysis of both models (hardware and software) separately. The failure analysis of the software model uses both the class and activity diagrams following the UML notation. Then, we map them into a composite failure analysis from which a fault tree analysis (FTA) is generated. In so doing, we provide a holistic view of the failure scenarios in the system. The approach is demonstrated on an Aircraft Wheel Brake System (AWBS). Firstly, the hardware analysis revealed that the following components Selector valve, Accumulator pump, Accumulator valve, Manual meter valve, Emergency pressure, Mechanical pedal, braking system control unit and Wheel brake system have failure modes with high severity. Similarly, the software analysis of the AWBS's class diagram indicated that those components have operations with failure modes of high severity. Thus, failure with these components can be catastrophic to the system and its environment. Furthermore, analysing the fault tree through the minimal cut sets in our use case, three components, namely the Wheel Brake System, the Emergency Pressure, and the Manual Meter Valve, were found to be single points of failure. As a recommendation, these components could be redesigned. Alternatively, a reconfiguration of the system with further analysis of similar components could be envisioned or a preventive maintenance schedule drawn.

13. DOCTOR OF PHILOSOPHY IN INFORMATICS (NQF: 10)

KAMUTUEZU Elizabeth U

Thesis: Developing a Model for Value-Added Digital Services for Rural Entrepreneurs in Namibia

Supervisor: Prof Heike Winschiers-Theophilus

Co-Supervisor: Prof Anicia Peters



Abstract

Namibia's rural areas have a dispersed population and limited access to modern infrastructure and services, such as ICT. There is widespread agreement that information and communication technology (ICT) is an important engine of socioeconomic development. Hence, providing rural communities with access to ICT services will help them to obtain information, engage with others, and develop critical digital skills.

However, in the Fourth Industrial Revolution, the use of ICT or the internet is no longer restricted to gathering and disseminating information and communication; rather, developing digital services is advantageous and game-changing for the digital economy. Policymakers are still concerned about digital inclusion in rural areas where having broadband internet access allows people to run their businesses from home, strengthens social ties within the community, slows young people's out-migration, and may even mitigate the effects of geographical isolation.

Among other benefits, digital services can promote rural entrepreneurs' access to larger markets and competitiveness. Rural Namibia lacks access to affordable and dependable ICT infrastructure, yet digital connectivity enables rural entrepreneurs to develop creative solutions that allow businesses to compete in competitive markets. Furthermore, during the past COVID-19 outbreak, when transportation and personal contact were restricted, businesses relied heavily on Internet services. However, many rural Namibian entrepreneurs would not maintain themselves using internet services. To support digitally enabled entrepreneurship in rural areas, a comprehensive strategy is essential to ensure that rural entrepreneurs use digital services and develop creative solutions to compete successfully in their respective markets. Without a value-added digital services model, it is unclear what kinds of digital services should be offered to rural entrepreneurs and whether these digital services are responsive to the needs and aspirations of rural communities once connectivity, electricity, and digital skills issues are resolved.

Digital transformation plans create a need to investigate digitalisation in the context of rural entrepreneurs to establish how rural entrepreneurs learn, adapt, and adopt to a digital environment. Traditional approaches have failed to address the most pressing issues in rural areas, and ICT for development necessitates completely different design and implementation tactics. Despite this, the study aims to promote the adoption of digital services by rural entrepreneurs by developing a Model for Value-Added Digital Services for Rural Entrepreneurs in Namibia. The model serves as a framework and a guide for policymakers, service providers, researchers, rural entrepreneurs, community workers, and service providers to leverage digital ecosystems to provide a multi-stakeholder approach for holistic digital solutions and value-added digital services to rural entrepreneurs. The study began by examining the existing condition of ICT-enabled entrepreneurship infrastructure deployment in Namibia's rural areas. It then looked into the factors that influence rural entrepreneurs' adoption of digital services. Data were collected from 114 respondents from eight sites in six regions of Namibia, four of which were connected to a mobile network and the other four were not, as well as 57 key informants representing various organisations interested in the provision of ICT-enabled services to rural areas, including government entities, the private sector, telecom regulators, telecom service providers, academia, and research institutions. A non-probability sampling method that included convenience and purposeful sampling was used to determine the sample size. Purposive sampling was used to choose the eight study sites, and participants were chosen based on their willingness to participate in the survey. The final model was developed using an integrated design technique that combines action research and design research, and it is divided into four steps: problem identification, proposed interventions, evaluation, and reflection. Both approaches were chosen because they include the feature of reflection



that the design research lacks and the construction of artefacts [models] that action research lacks. A group of experts reviewed the model's key components and general applicability.

According to the CRAN annual report (2021), Namibia has a robust ICT-enabled infrastructure, but it is primarily urbanised. In addition, mobile phone penetration in Namibia exceeds 120 per cent, and internet and social media use has increased from 28% to 38%. In 2018, the Mobile Telecommunications Company (MTC) launched the 081-network project to build new mobile networks and upgrade existing ones. In phase two, 87 of the 102 planned sites were to be built in rural regions with 3G coverage. Even though rural areas have fewer ICT infrastructures, Lekhanya (2018) claimed that rural entrepreneurs use them for communication rather than for business purposes. The five primary factors preventing rural entrepreneurs from adopting digital services were recognised as a lack of awareness of digital services, electricity, the capacity to use smart devices, the high cost of both devices and mobile internet, and cybercrime. This research identified five key components for a model for Value-Added Digital Services for Rural Entrepreneurs in Namibia, namely digital infrastructure, digital skills, digital inclusion, digital services, and digital actors. Accordingly, a specialised training program for rural entrepreneurs was proposed, as well as additional initiatives to support rural entrepreneurship, such as raising awareness of digital services and their associated benefits, developing capacity in digital skills, and promoting cybersecurity best practices. Furthermore, it is suggested that the Namibian government improve digital inclusion by enacting legislation to reduce the cost of data and smart devices for low-income and rural communities.

A digital services awareness workshop for rural entrepreneurs was held as a testbed to evaluate the approach and this intervention yielded positive results, although some participants faced persistent impediments. The digital services awareness training intervention can have short-term, medium-term, and long-term benefits. Only short-term positive effects were documented for this experiment, based on the findings, the study presents a conceptual model supported by a contextual and theoretical analysis of the state of rural entrepreneurship activities and ICT infrastructure, an exploration of the factors influencing rural entrepreneurs' adoption of ICT-enabled services, and potential interventions to mitigate barriers for rural entrepreneurs' effective adoption of digital services.

The proposed model includes overlapping elements, components, concepts, and activities that characterize the design process and define each actor's tasks and obligations in the digital world, with each activity encouraging rural digital entrepreneurship. The proposed Model for Value-Added Digital Services for Rural Entrepreneurs in Namibia is a full plan with different interventions that encourage rural entrepreneurs in Namibia to use digital services. This study contributes to the importance of digital entrepreneurship in rural areas to stimulate the adoption of digital services by rural entrepreneurs for sustainable rural development.

**FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT****Candidates presented by the EXECUTIVE DEAN: PROF HARMONY MUSIYARIRA****1. BACHELOR OF ARCHITECTURE HONOURS (NQF: 8)**

BEUKES Dalon T	BEZUIDENHOUT Cornelius E
ITEWA Tuya M I	KAUTWIMA Tumweneni K
MABAKENG Selicia M	MBANGU Sinte
MENYAH-ARTIVOR Fredrick K Y	NANGULA Soini E N
VAN DER MERWE Matthew R	VAN RENSBURG Jacques B
VISAGIE Gert C	VISSER Minette

2. BACHELOR OF GEOINFORMATION TECHNOLOGY HONOURS (NQF: 8)

AMUTENYA Modesta N	HAUPINDI Rosa N H
NATHINGO Kristofina T	NYAMBE Salufu
UUTONI Maria N	

3. BACHELOR OF GEOMATICS HONOURS

NGHIKUMWA Maria P	
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4. BACHELOR OF LAND ADMINISTRATION HONOURS (NQF: 8)

ABISAI Daniel	AINDAKA Aloisius S N
KAKUVA Jan I T	KAMATI Martha L
NGAIZUVARE Ngumekupe E	PAKARAE Tjitjita
SALUMBU Goerge M	SHIKOMBA Epafuras E
SINKOLELA Gisella R	STRAUSS Jacques R

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BIRAHEKA Njabuka S	IYAMBO Wilbard N
KAGOLO Abed P T	KAHIMA Panduleni G
NAMBAHU Maria N	NAMBIKA Albertina T
PENAVALI Paulus H	RUSHUBIZA Feliciter A
SHINGWADJA Bro-Matthew S	SILAS Hendrina M N
TETA Teveraishe	UUGULU Ruusa N
UUYUNI Eva M	

6. BACHELOR OF REGIONAL AND RURAL DEVELOPMENT HONOURS (NQF: 8)

ANGULA Fenny N	INGASHIPOLA Vistorina E
MUNGONENA Johanna S	NABOT Rosa T
SHIKALEPO Peter A	TWADILE Haihonya A

7. BACHELOR OF URBAN AND REGIONAL PLANNING HONOURS (NQF: 8)

AMUPOLO Nakanyala D	ENDJALA Alina J T
KALOLA Innocent N	KAMENDU Dantago
LINUS Sigrid N	MATHEUS Aune K
MULONDA Hope N	NASHILONGO Simeon V K
SHIKONGO Tulela N	

7. MASTER OF ARCHITECTURE (NQF: 9)	
NAWA Ishmael J	Thesis: Traditional Burial Reinterpretation Centre in Katima Mulilo: Investigation of Vernacular Burial Practices in an Urban Context within the Zambezi Region Supervisor: Dr Madelein Stoffberg Co-supervisor: Prof Jaco Wasserfall
TSHAMBO Mduduzi	Thesis: Intracity Transport Hub For Windhoek South: Towards A Sustainable Public Transport System In Windhoek. Co-supervisor: Prof Jaco Wasserfall
	Thesis: Ka-Ba-Thi Learning Centre: Creating a Sense of Place in Kavango East, Namibia. Supervisor: Dr Phillip Lühl Co-supervisor: Dr Madelein Stoffberg
8. MASTER OF ENVIRONMENTAL ENGINEERING (NQF: 9)	
KAFIDI Ndesihafela N	Thesis: Groundwater Quality Assessment using Water Quality Index and Geographical Information Systems Technique in Bethanie and Grünau Settlement, Namibia Supervisor: Dr Kedir Bushira Co-Supervisor: : Mrs Truddy Theron-Beukes
KANALELO Sackaria H	Thesis: Assessing Removal of Selected Contaminants of Emerging Concern from Wastewater Effluent, using Activated Carbon derived from Encroaching Namibian Bush Plant <i>Acacia mellifera</i>, Namibia Supervisor: Prof Habauka Kwaambwa Co-Supervisor: Prof Daniel Likius
MAKONGWA Agaton M	Thesis: Multi-Criteria Decision Analysis of Water Distribution System in Rundu Town, Namibia Supervisor: Prof Michael Mutingi Co-Supervisor: Mr Liberty Moyo
MUTYAVAVIRI Juliet R	Thesis: Assessing the effects of water abstraction on environmental flows: a case study of the proposed Okavango River offtake to grootfontein pipeline in Namibia Supervisor: Dr Godfrey Pazvaka Co-Supervisor: Dr Gert Cloete
NGHIYALWA Ferikis	Thesis: Assessment of site suitability and Performance of large-scale pv Plants in Namibia using simulation and multi-criteria-decision analysis (MCDA) Supervisor: Dr Petja Dobrevá Co-Supervisor: Ms Fenni Shidhika
SIRIYA Prudence K	Thesis: An Evaluation of Microplastics from the City of Windhoek Domestic Wastewater Treatment Plants System, Windhoek, Namibia Supervisor: Prof Sylvanus Ameh Onjefu Co-Supervisors: Dr Erol Naomab and Dr Sindila Mwiya

9. MASTER OF INDUSTRIAL ENGINEERING (NQF: 9)	
HENGARI Himeezembi K	Thesis: Designing a new approach to the Mine-to-Mill Optimisation model for mines in Namibia: A system dynamics approach Supervisor: Prof Michael Mutingi Co-Supervisor: Prof MalliKarjun Pillalamarry
SHIWAMBI Rut M N	Thesis: Investigating the Impact of Solar Energy Technology on Socio-Economic and Environmental Development in Khomas Region, Namibia Supervisor: Dr Smita Francis Co-Supervisor: Dr Michael Sony
10. MASTER OF INTEGRATED WATER RESOURCE MANAGEMENT (NQF:9)	
NWAGBARA Victor U	Thesis: Natural radionuclides, heavy metals, and radiological risks assessment of river sediments from the Omaruru Basin, Erongo Region, Namibia Supervisor: Prof Onjefu SylvanusAmeh Co-Supervisor: Dr Eroid Naomab and Dr Mzubanzi Bismark Tyobeka
SHIGWEDHA Vaino T	Thesis: Determining factors of water quality in the Otjiseru River in Windhoek, Namibia Supervisor: Mr Hidinwa Joshua



11. DOCTOR OF PHILOSOPHY IN ENGINEERING (NQF: 10)

MADZIWA Lawrence

Thesis Topic: Integrating Flexibility into Open Pit mine Planning to Survive Low Commodity Prices.

Supervisor: Prof MalliKarjun Rao Pillalamarry

Co-Supervisor: Prof Snehamoy Chatterjee



Typically, valuation in mining investments is done under the assumption that a mine would operate at a constant commodity price throughout its life. Moreover, commodity prices are pivotal to the mineral investment decision and have a considerable impact on mining companies' financial performance. During the 2012-2017 period, several mining companies closed their mines and some suspended operations temporarily due the hardships experienced by the industry across the globe. Surviving from declining commodity prices is critical not only for the mining industry but also for commodity producing nations that can face reduced investment, reduced government revenues, and increasing deficits. Thus, the aim of this thesis was to develop a model that integrates flexibility into mine planning so as to mitigate the impacts of the low commodity prices. This was undertaken by integrating the best commodity price forecasting method with appropriate mine planning and optimisation models and devising a recourse action to survive during a commodity price downturn.

A review of mining risks established that commodity price volatility was one of the top risks for a number of years between 2015 and 2020. This led to the assessment of commodity price forecasting, which is an important part of mine planning. Ten commonly used forecasting methods were used to forecast gold price and the Autoregressive Distributed Lag (ARDL) method emerged as the best method after error evaluation. After reviewing mine planning optimisation techniques, the stochastic minimum cut model and traditional Lerchs-Grossman (LG) methods were considered for this research. The ARDL forecasted prices were incorporated into the two mine planning models (deterministic LG and Minimum cut stochastic model) under three different scenarios of prices going up, prices going down and the application of recourse action when prices were going down. A recourse action model was developed using the Cobb-Douglas production function in conjunction with the Lagrange model that solves for the new production rate which minimises losses during extreme price decline. In this study, a gold deposit from a confidential company was used for implementing proposed scenarios, and gold annual price data for the period 1960 to 2018 was sourced from the Index Mundi databases.

Both deterministic and stochastic mine planning models demonstrated that Net Present Value (NPV) estimated using the ARDL forecasting method presented close to realistic NPV than deterministic price. Estimated Value at Risk (VaR) and extreme value analysis for the project showed that the project could incur 20 million US dollars for every 1.5 years, with a reoccurrence probability of 72%. The results of the recourse model indicated that the costs could be reduced by about 50%, which subsequently led to a new production level which is about the same proportion of 50%. The application of the recourse action proved that the observed NPVs were within 70-80% and 54% of the full-scale operation NPVs using deterministic and stochastic models, respectively. It was observed that the recourse action was preserving the mining resource value since NPV results were comparatively better than the initial full production rate.

Previous research studies lack the analysis of different commodity price forecasting techniques and the integration of a recourse action in their planning models in the event of a huge decline in commodity prices. This research, therefore, identified the time of risk management using commodity price forecasting and integrating the dynamic feedback loop approach into mine planning which embeds flexibility in the scale of operations (namely plant and mining) to minimise commodity price risk. The scaling of operations was identified by optimising labour and capital in order to survive and maximise financial returns on negative changing economic conditions. The proposed model can be used to identify the optimal scale of operation under changing economic circumstances as presented by prices and other operating conditions. It is therefore the study recommends the mining companies to use modular system in the plant and equipment to adjust scale operations.

**FACULTY OF HEALTH, NATURAL RESOURCES AND APPLIED SCIENCES**

Candidates presented by the EXECUTIVE DEAN: DR ONESMUS SHUUNGULA

1. BACHELOR OF EMERGENCY MEDICAL CARE HONOURS (NQF: 8)	
BROWN Jay-Jay M M	CONRADIE Charmaine
2. BACHELOR OF NATURAL RESOURCE MANAGEMENT HONOURS (NATURE CONSERVATION) (NQF: 8)	
AUGELLO Emanuele	GROENEWALDT Monique
HAITULA Joseph T	HAUPINDI Emilia N
JOSOB Noita E	KAMBONGI Tobias N
KURUSEB Elton R	KUTAKO Clerence
LWIINGA Andreas T	MOSES Penephupifo N
MULYUU Victoria S	MUNSU Iluki T
NANDE Monica N	NDEMOONGELA Rosaria K
SHIMWANDI Toini P N	TJIUORO Uatirohange
3. BACHELOR OF SCIENCE IN AGRICULTURE HONOURS :AGRIBUSINESS MANAGEMENT (NQF: 8)	
IITA Paulus I	ITEPU Maria K
KAMUNGUMA Mbatemwa	KASAONA Nerlina V
NARIB Nelson	SAKARIA Kwedhi L
SHIPINGANA David S	
4. BACHELOR OF SCIENCE IN AGRICULTURE HONOURS :SUSTAINABLE AGRICULTURE (NQF: 8)	
KAIKO Linda	KANGUMBA Annethe
MATALI Elma T	NANGWASHA Erasmus
SHIVIA Lydia N	
5. BACHELOR OF SCIENCE HONOURS: APPLIED BIOLOGY (NQF: 8)	
DUMENI Veruschka	HANSEN Clifford C
NEGUMBO Julia L E	NUAS Joedial
NYASHANU Pauline N	OCKHUIZEN Corneille C
SHOLOLO Ester N	SIMSON Maria T
6. BACHELOR OF SCIENCE HONOURS: APPLIED CHEMISTRY (NQF: 8)	
HATUTALE Hilia N	JOHANNES Ester T N
KARUMENDU Tjaronda	MAYONDE Dan M
NANGOLO Melanea K P	SHIGWEDHA Elise K
7. BACHELOR OF SCIENCE HONOURS: APPLIED PHYSICS (NQF: 8)	
AMWAALWA Helena M P "CUM LAUDE"	CHRISTIAN Pombili M "CUM LAUDE"
DANIEL Naem N	DAVID Loide N
GOTTLIEB Linda T	IYAMBO Lydia M
JOSEPH Samuel T D	KAMBINDANGOLO Elton A
KURUSES Yamilla M G "CUM LAUDE"	LIFASI Ambitious M
MUKOHONGO Abraham S	NEGUMBO Secilia K
SET Monica N S	SHIMWEEFELENI Jakob P



8. BACHELOR OF SCIENCE HONOURS IN APPLIED MATHEMATICS (NQF: 8)	
RABAN Raban S	
9. BACHELOR OF SCIENCE HONOURS IN APPLIED STATISTICS (NQF: 8)	
ABRAHAM Salomo P	ELIFAS Leonard O M
HEKANDJO Erastus F	JOHANNES Ndapewa - Omagano M
KASHUPI Julia N G	MUNYAMA Esther N
NGOLO Maria K	SHIIMI Ndeshuuva K
TUKONDJERE Leonard	
10. BACHELOR OF SCIENCE HONOURS: BIOTECHNOLOGY (NQF: 8)	
BOYS Martin V "CUM LAUDE"	DAMASES Latifah M
GABRIEL Maria N	KAGOLA Oshindji K N
KANDANDA Graca K "CUM LAUDE"	KASHALWA Nestor H
KOYO Priscille L	METODIU Tresia
MWATEUVI Johnson T	NDUME Johanna N S
NEKONGO Emma M	ONESMUS Shanida E N
SEPOLO Adalberto R	SHILOMBOLENI Foibe T F
SYLVANUS Helena N	WITBOOI Allistair C
11. BACHELOR OF SCIENCE HONOURS IN HEALTH INFORMATION SYSTEMS MANAGEMENT (NQF 8)	
!GAOSES Eleanor J G	ANANIAS Hilma I
EELU Kaatri-Liisa N	ELIA Ndilimeke K
HAILONGA Sylvi N	IIPINGE Tusnelde N
IMENE Victoria N	JAMBULU Martha N
JOSEPH Rakela N	KAHWEKA Rosalia N A
KAIHIVA Vevangouua	KAMATI Joan J
KASERA Gabriel K	KUTAKO Kristofina V
MARTIN Rebbeka N	NAHOLO Sylvi N N
NAKALE Indileni T T N	NAMBAHU Rauha N
NAMPOLO Immanuel A	NANGOLO Marthina
NGHIFIKWA Amon N	NGHIIKI Elias M
NIINKOTI Elizabeth P T	OLAVI Josua
PAULUS Kamwinekela I "CUM LAUDE"	PEA Rachel N
PEELO George	PEFINDE Rusia N
SHAANIKA Mateus I	SHAKAALELA Justina H
SHEYAVALI Albertina N	SHILONGO Hishidhimbwa O E H
SHOOMBE Saara T	TJIURUTUE Tanya K
12. MASTER OF AGRIBUSINESS MANAGEMENT (NQF: 9)	
ERASTUS Andreas	Thesis: Analysing the Trade of Meat Products between Namibia and SADC Counties Supervisor: Mr Mwala Lubinda Co-supervisor: Dr Mmatlou Kalaba
SINALUMBU Chaze L	Thesis: The Impact of 2016/17 Fall Armyworm outbreak on Pearl Millet Yield in Namibia Supervisor: Mr Teofilus Shiimi Co-supervisor: Dr Thinah Moyo



13. MASTER OF HEALTH SCIENCES (NQF: 9)	
BENJAMIN Bernolda B	Thesis: Investigating the Perception of Fluorosis and Levels of Fluoride in Potable Water in Bethanie, Namibia Supervisor: Prof: Nnenesi Anna Kgabi Co-Supervisor: Prof Sylvanus Ameh Onjefu
IKELA Mwakondja A	Thesis: Assessment of Cross Border Preparedness and Response Measures to Combat the Importation of Infectious Diseases in Walvis Bay, Namibia Supervisor: Dr Mahalie Roswitha Co-Supervisor: Mr Jomin George
KASTELIC Helena M	Thesis: The effects of Sexually Transmitted Diseases (STDs) on Pregnancy outcomes in Tsumeb District of Namibia Supervisor: Dr Aboua Yapo Co-Supervisor: Dr Ayad Bashir Mohamed
MSATI Johanna	Thesis: The Impact of COVID-19 Infection on the Renal Function: A Case Study of the Windhoek Central COVID Intensive Care Unit, Namibia Supervisor: Dr Aboua Yapo Co-Supervisor: Dr Arokoyo, Dennis Seyi
SIMUSHI Evey M	Thesis: Assessing Occupational Hazards and Health Risk Exposures of Workers at Selected Beef Processing Abattoirs in Namibia Supervisor: Prof Awofolu, Omotayo Co-Supervisor: Mr Immanuel Zeriapi
14. MASTER OF NATURAL RESOURCE MANAGEMENT (NQF: 9)	
PORTAS Ruben	Thesis: Assessing the likelihood of vegetation composition shifts under climate change scenarios along a climatic gradient in Namibia Supervisor: Prof Vera de Cauwer Co-Supervisor: Dr Bettina Wachter Co-Supervisor: Dr Joerg Melzheimer
15. MASTER OF SCIENCE IN APPLIED MATHEMATICS (NQF: 9)	
AMON Nikodemus S	Thesis: Neural Networks Application to Ecological Modelling Supervisor: Prof Sunday Reju Co-Supervisor: Mr Benson Obabueki

NOTES

This image shows a full page of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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VISION

A premier technological university known for knowledge creation, innovation and entrepreneurship.

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- Collegiality
- Accountability and Sustainability
- Diversity



NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Graduation Programme: Thursday, 28 April 2022

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