

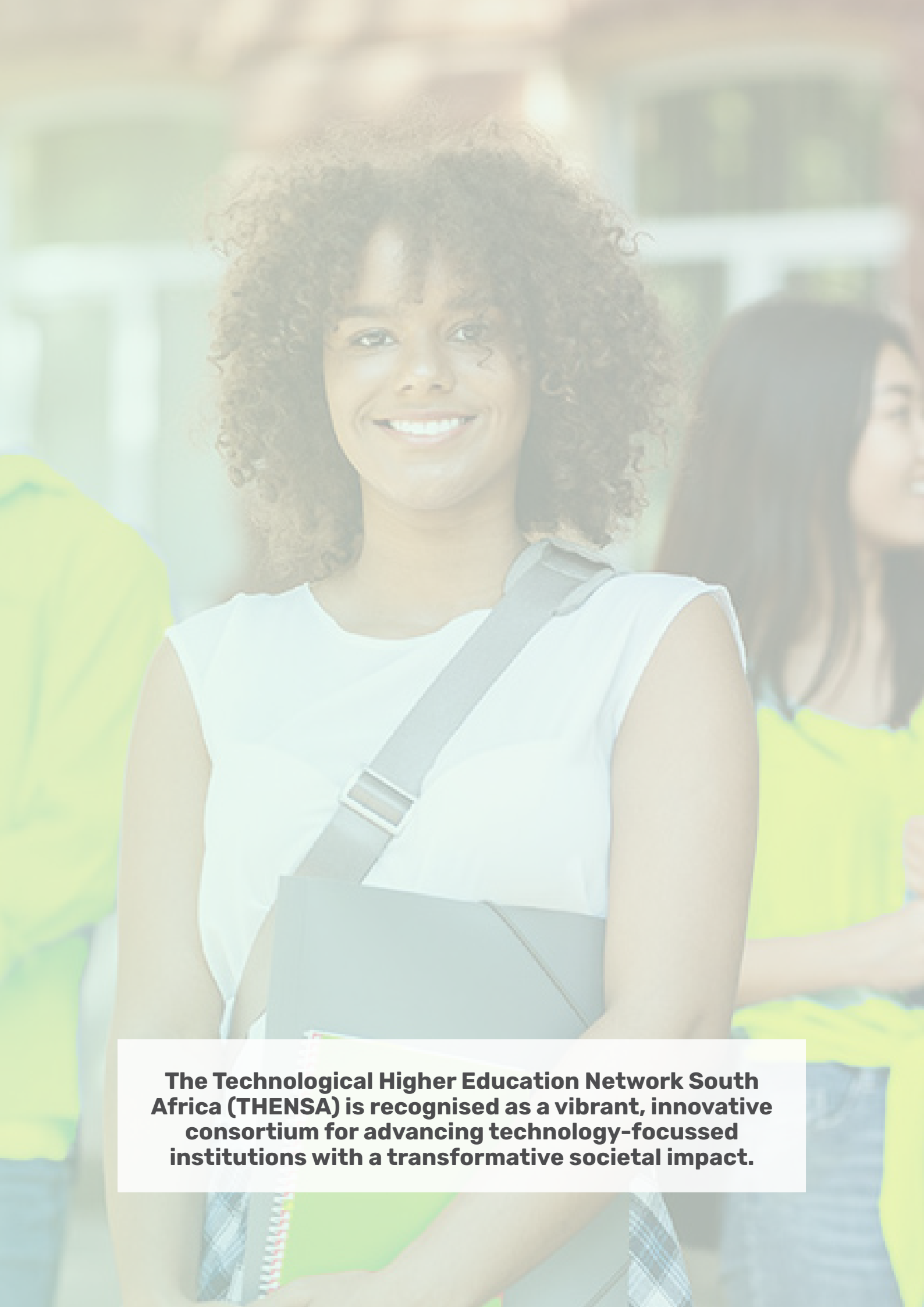


THENSA

Technological Higher Education Network South Africa

SUMMARY OF THENSA MEMBER INSTITUTIONS





The Technological Higher Education Network South Africa (THENSA) is recognised as a vibrant, innovative consortium for advancing technology-focussed institutions with a transformative societal impact.

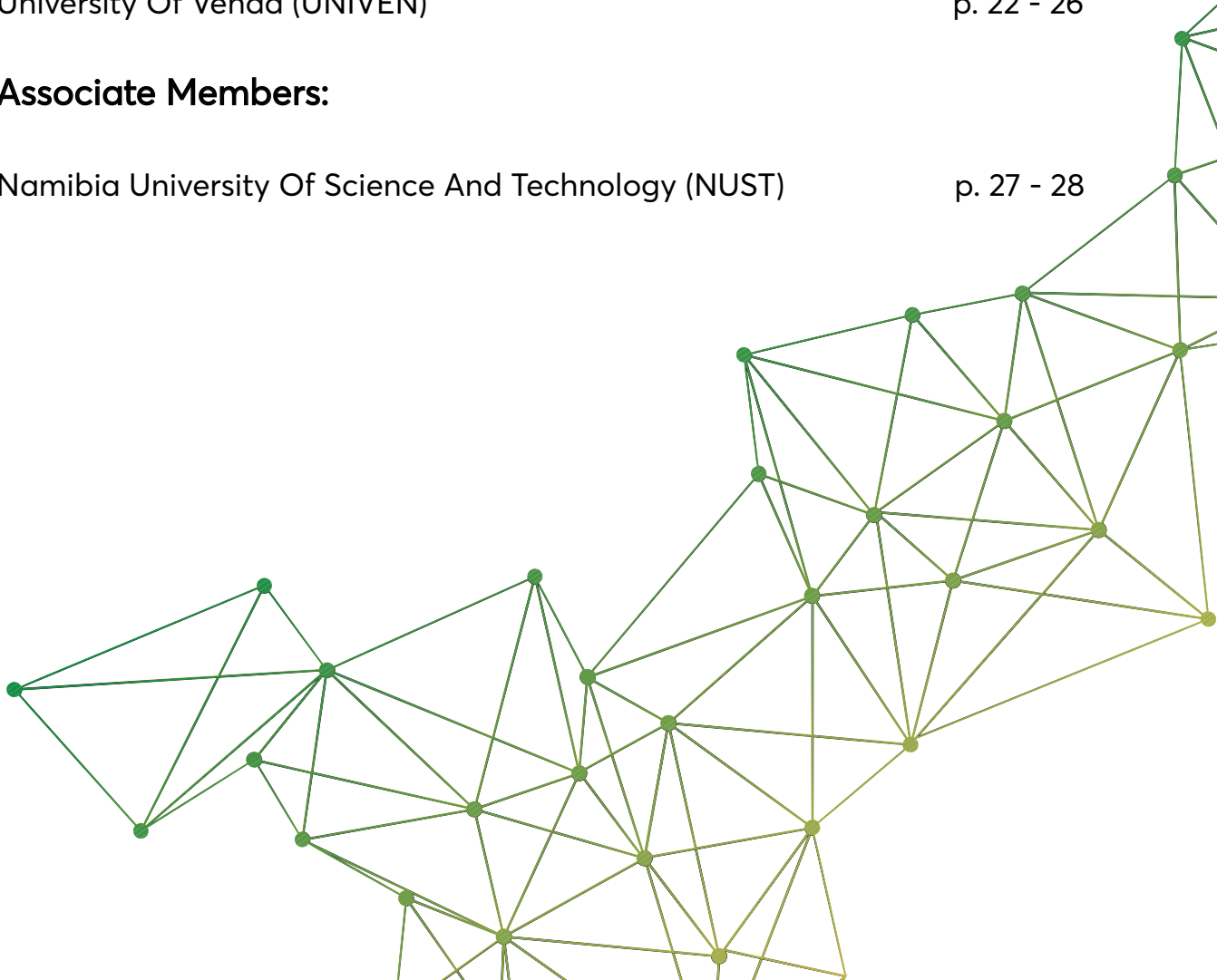
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CAPE PENINSULA UNIVERSITY OF TECHNOLOGY (CPUT)



To fully comprehend where the institution came from and where it is today, it is important to briefly explain its origins.

The Cape Technikon has its roots in the Cape Technical College, which was established in 1920. The establishment of the College followed more than ten years of petitioning by the community for the consolidation of technical courses that had been offered in various venues in Cape Town. In the late 1960's this institution had its status changed to a College for Advanced Technical Education and was renamed the Cape College for Advanced Technical Education. However, a decade later, the Technikon Act was promulgated and in 1976 the Institution became known as the Cape Technikon and was allowed to offer degree programmes. During the apartheid era, all educational institutions were forced to serve a specific race group, and in this case courses were offered to white students only. However, in 1987 the makeup of the student population changed after the Institution applied for and was granted permission to have the Government's regulation lifted on the quota for black students.

The 1990s would usher in a new era for the Cape Technikon. This Institution launched its new organisational structure, which featured six faculties, a new corporate identity as well as a new vision and mission statement. In 2001 the Boland and Mowbray Education Colleges were incorporated into the Cape Technikon, forming the Faculty of Education at sites in Wellington and Mowbray.

In 1962, the Peninsula Technical College was established to cater for the steady growth in the number of coloured apprentices in a variety of trades. Classes were conducted in Cape Town until the relocation to a site in Bellville in 1967, which today is the administrative campus of the Cape Peninsula University of Technology. In the 1970s the institution had its status changed to a College of Advanced Technical Education and was rebranded as the Peninsula College for Advanced Technical Education. However, this name and status change was short-lived too and in 1979 the College was legally established as the Peninsula Technikon.

Primarily offering education to coloured people during the apartheid era, the Peninsula Technikon opened its doors to all races in 1987. The 1990s ushered in more changes for the institution, which was empowered to offer degree programmes. The year 1997 saw the restructuring of the institution's academic programmes into the faculties of Engineering, Business and Science.

This background information is important to understand that CPUT started with the merger of two completely different institutions with different institutional cultures, races, languages, offering different programmes and having different budget allocations. In addition, two Teacher Training Colleges and a College for Nursing also had to become part of the “new” institution. In addition to all this, the merged institutions were expected to become a University of Technology, an institutional type not known in South Africa then. The shift from a College to a Technikon and to that of a university was certainly not an easy task to accomplish. Yet, in looking back on those years until now, CPUT has indeed succeeded in building a research culture with rated scientists and research niche areas; for example Space Technology Research, the Research Centre on Work Integrated Learning, Rooibos Tea Research, the STEM project for secondary school learners, to mention but a few.

From its beginning, CPUT saw the potential complexities of the merger rather as opportunities, focusing not on the differences of the various institutions, but searching for opportunities to unite staff and students. A living testimony of this is the establishment of a Transformation Office, headed by a Director. The purpose of this Office was to oversee transformation and establish the architecture for the “new” institution. As the idea of higher education transformation evolved, so did CPUT. Subsequently its name was changed to that of Diversity, Inclusivity and Social Change. The V2030 Transformation Strategic Plan is indeed a reflection of how CPUT understands the transformation of the Institution, not only looking at transformation from a human capital perspective, but also how it should shape CPUT’s learning and teaching strategy, its research initiatives, capacity building and broader stakeholder engagement.

In 2021 the Vice Chancellor referred to CPUT as an anchor institution in its region. CPUT is proud to refer here to the role the institution played during the time of Covid-19 when it became the first university to be accredited as a vaccination centre. It is equally proud to refer to the institution’s community engagement footprint which focuses on supporting secondary school learners in STEM subjects.

Understanding where CPUT comes from, all has to understand why such a big emphasis is placed on oneness (the human side) of our strategy and on stakeholder engagement.

NUMBER OF CAMPUSES

Apart from six (6) main campuses in Bellville, Cape Town (known as CPUT’s District 6 campus), Wellington, Mowbray, George and Granger Bay, CPUT delivers training at a number of sites within its region. These include Tygerberg Hospital, Groote Schuur, Athlone, the Media City building on the Foreshore and Roeland Street which is a few short minutes from the main Cape Town campus.

FACULTIES

The university has six faculties offering a wide range of accredited undergraduate and postgraduate courses in the fields of:

- Applied Sciences
- Business and Management Sciences
- Education
- Built Environment and Engineering
- Informatics and Design
- Health and Wellness Sciences

RESEARCH AREAS

In responding to the technological changes of our times and to deliver on CPUT’s V2030, CPUT invests in the following research focus areas:

Research Focus Area 1: Bio economy and Biotechnology

Research Focus Area 2: Space Science, Engineering and Technology

Research Focus Area 3: Smart Energy

Research Focus Area 4: The Environment, Climate Change and Sustainability

Research Focus Area 5: Human, Health and Social Dynamics

Research Focus Area 6: The Digital Society

(<https://www.cput.ac.za/research-technology-and-innovation/research-focus-areas>)



BUSINESS UNITS

The mandate of CPUT's Technology Transfer Office (TTO) is ensure that innovation in technology has impact outside CPUT. 2020 was an exciting year in this regard, as it saw the creation of three new spin-off companies. These companies are primed to bring value to the society and economy of South Africa via the creation of jobs, localisation of production, and contribution to the economy.

AONYX FOODS

The central offering of this company is based on the Bambara groundnut (BGN). BGN is widespread in Africa where it is known by various names. It has potential as a cash crop, owing to its nutritional composition, functional properties and antioxidant potential. Consequently, researchers at CPUT have used the BGN as a raw material to create several value-added products. These include dairy substitutes, baked goods, meat substitutes, and beverages. These products are all gluten-, lactose- and cholesterol-free. There is a growing consciousness towards and demand for healthier diets. Furthermore, cases of lactose intolerance are growing. This has created an opportunity that CPUT believes the BGN can fulfil. This groundnut is able to grow under drought conditions, offering a great opportunity to South African farmers. It is also less risky to grow than many other crops, with a lead time of merely 4-5 months.

AEQUOREA

This company is named after the Crystal Jellyfish, as jellyfish are well known for floating in the ocean like a buoy. Aequorea is pronounced ah-kor-rah. Oceans hold the promise of immense resource wealth and great potential for boosting economic growth, employment and innovation. South Africa is surrounded by vast oceans with immense potential as an untapped resource – the potential to contribute billions of rands to the GDP and offer employment to a great number of South Africans. Aequorea operates in this space. The primary offering of the company is the Coastal Observer. This smart buoy enables users to get real-time data through wireless telemetry from a range of sensors mounted to and powered by the platform. It provides knowledge that enables a better understanding of the coastal environment. The range of offerings can be customised based on specific needs. Aequorea won first place at the Ocean Innovation Africa (OIA) start-up pitching competition held on 25 November 2020.

PROMEROPS

This company is named after the Cape Sugarbird, as sugarbirds are well known for hovering in the air much like an unmanned aerial vehicle (UAV). There is an emerging market for UAV services, i.e. services built around flying robots that can be remote-controlled or flown autonomously. CPUT foresees that these offerings will become commonplace in the post-industrial society. The UAV Guardian Squadron developed at the university can be integrated into and configured for most UAV services. The team includes specialists in the field of remote sensing, geodesy and environmental sciences. They are able to provide both outstanding flight performance, and the collection and interpretation of data, achieving the highest quality and precision. The service is a complete offering ensuring that the customer gets precise and reliable information to guide their business forward

CENTRES OF EXCELLENCE

No Centres of Excellence but the following Institutes:

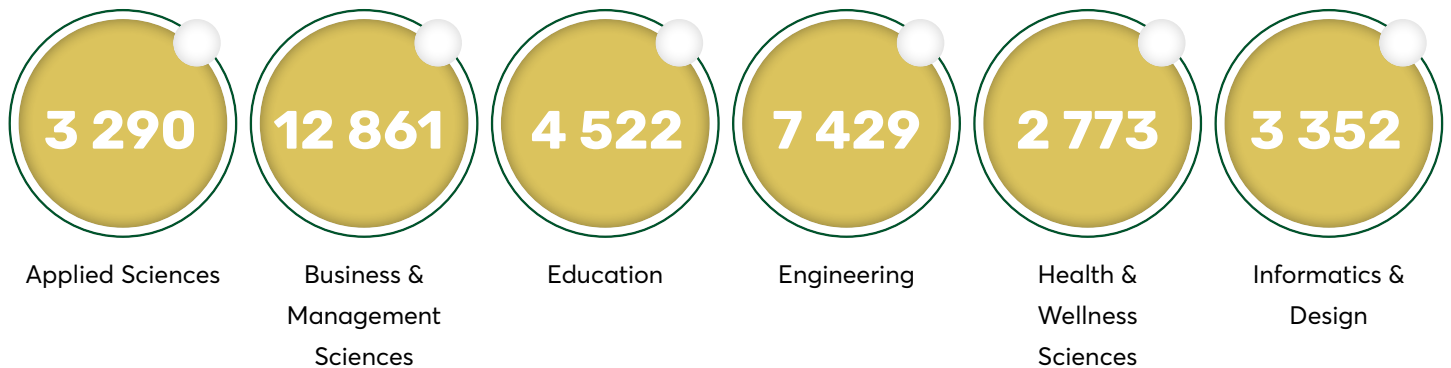
- French South African Institute of Technology (F'SATI)
- Institute of Biomedical and Microbial Biotechnology (IBMB)
- The Professional Education Research Institute (PERI)

RESEARCH CHAIRS

- Cardiometabolic Health Research Centre (CHRC) Prof T Matsha (Tier 2)
- Centre for International Teacher Education (CITE) Prof Y Sayed (Tier 1)
- Innovative Small Satellite Technology & Applications for Africa (ISSTAA) In progress
- Work-Integrated Learning (WIL) Prof C Winberg (Tier 2)
- Biotechnology Prof JL Marnewick
- Energy Prof MTE Kahn Innovation in Society (Service Design)
- In progress Literacy Development : Prof J Condy
- Oceans Economy Prof KP Findlay
- Sustainable Tourism and Global Change In progress
- SETA Research Chairs Work-Integrated Learning (ETDP SETA) Prof NJ Nduna

ENROLLMENT NUMBERS

The total enrolment for 2020 is 34 227



VICE-CHANCELLOR



Dr Chris Nhlapo



ADDRESS (MAIN CAMPUS)

Cape Peninsula University of Technology (CPUT),
Symphony Way, Bellville, Cape Town, 7535

www.cput.ac.za



Central University of
Technology, Free State

CENTRAL UNIVERSITY OF TECHNOLOGY, FREE STATE (CUT)



Central University of Technology, Free State (CUT) is situated in the Free State Province, South Africa. The university is dedicated to quality education and training in a number of technological fields, including science, technology, engineering and mathematics (STEM); management sciences; humanities; and education.

In this academic year of 2022, the university has enrolled 47.7% of its students in priority fields of Science, Engineering, Technology and Mathematics. By 2030, the university is aspired to reach 50 percent of student intakes in this priority area which South Africa has placed on the critical skills shortage list for many years now.

CUT offers fully accredited academic programmes by highly respected accredited bodies such as the South African Institute of Chartered Accountants (SAICA), South African Board for People Practices (SABPP), Engineering Council of South Africa (ECSA) and have strong affiliation with several Sector Education and Training Authority (SETAs). All learning programmes in the Faculty of Engineering, Built Environment and Information Technology are accredited.

Students are also exposed to the various industries through Work Integrated Learning Programme so that upon completion of their studies, they graduate with much needed experience in their respective study areas.

CUT is keen to play a critical role in helping to redefine the post-Covid world through research, innovation, community engagements and entrepreneurship development. About 1 100 administrative staff and 800 academic staff are in the employ of CUT across four faculties, while approximately 22 000 students constitute the student profile.

CUT's Vision 2030 states: "By 2030, Central University of Technology, Free State will be a leading African University of Technology, shaping the future through innovation." Through the efforts of educating, teaching, and training students with the aid of world class technology, CUT has recommitted itself to uphold institutional values of Ubuntu, Excellence, Innovation, Integrity, and Diversity. [Read more, https://www.cut.ac.za/cut-at-a-glance](https://www.cut.ac.za/cut-at-a-glance)

NUMBER OF CAMPUSES

Two campuses: Bloemfontein Campus and Welkom Campus are in the Free State region. A satellite campus in Kimberley was discontinued when Sol Plaatje University was established in 2014.

RESEARCH AREAS

Industrial Design, Communication and Development

- New Product Development and Design
- Evolvable Manufacturing, Automation and

Vision- Systems

- Sustainable Engineering
- Water Resource Management
- Information and Communication Technology

Quality of Health and Living

- Applied Food Safety and Biotechnology
- Sustainable Farming Systems
- Applied Health Technology
- Environmental Assessment and Management
- Biotechnology

People and Skills Development

Socio-Economic Development Studies
 Leisure Management
 Education (sub-themes: Health Science Education, General Education, Service Learning, Academic & Professional Pedagogy, and Scholarship of Teaching and Learning)
 Research Education

FACULTIES

Faculty of Engineering and Information Technology
 Faculty of Health and Environmental Sciences
 Faculty of Humanities
 Faculty of Management Sciences

BUSINESS UNITS

CUT innovation services (CUTis),
<https://www.cut.ac.za/cutis>
 CUT Unit for Entrepreneurship Development

RESEARCH CENTRES

Centre for Applied Food Security and Biotechnology (CAFSaB)
 Centre for Diversity in Higher Education Research
 Centre for Enterprise and Entrepreneurship Studies
 Centre for Rapid Prototyping and Manufacturing (CRPM)
 Centre for Sustainable Smart Cities
 Centre on Quality of Health and Living

RESEARCH CHAIRS

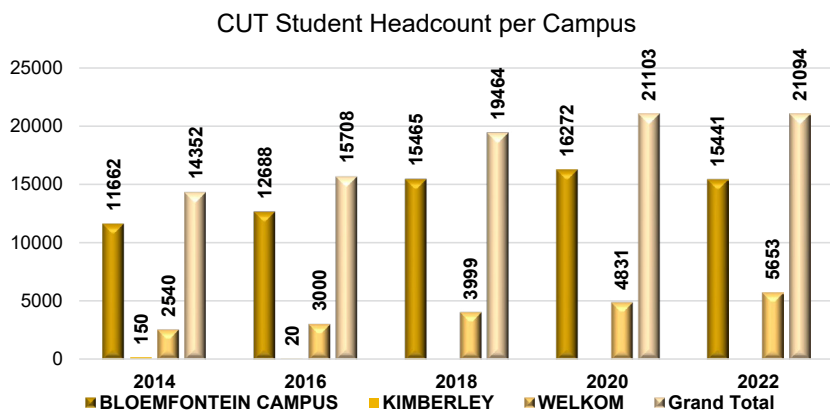
2018: DST Innovation and Commercialisation of Additive Manufacturing Chair (DST ICAM CHAIR) -

Holder: [Prof. Deon de Beer](#)

2015: DST's South African Research Chairs Initiative (SARChI) in Medical Product Development -

Holder: [Prof. Igor Yadroitsau](#)

ENROLLMENT NUMBERS



VICE-CHANCELLOR & PRINCIPAL



Prof. Alfred Ngowi (acting)

DURBAN UNIVERSITY OF TECHNOLOGY (DUT)



Durban University of Technology (DUT) is a leading University of Technology in South Africa with over 33146 students. DUT offers excellent, high quality and market-relevant academic programmes across six Faculties. Tracing its roots back to 1907, DUT is a modern, metropolitan, multi-campus University that operates on five campuses in the vibrant port city of Durban and on two campuses in the provincial capital city of Pietermaritzburg.

DUT prioritises the quality of teaching and learning, research and

innovation whilst also offering outstanding opportunities for undergraduate and postgraduate students across multiple disciplines.

The University has a pool of experienced and highly qualified staff who are also scholars in their own right and play important leadership roles in regional, provincial, national and international organisations. The pool of its researchers who have National Research Foundation ratings and are recognised both nationally and internationally has also grown over the last five years.

DUT qualifications are recognised both nationally and internationally. The University has a remarkable track record of producing outstanding graduates who are pioneers, innovators and leaders in various sectors of the economy in South Africa and beyond. As a member of a number of national and international organisations, DUT is consistently at the cutting edge of higher education, technological training and research.

DUT is making significant strides with its research, innovation and engagement areas and the number of its postgraduate enrolments has dramatically increased over the last five years. To this end, DUT was awarded the 2018 National Research Foundation Excelleration Award, which acknowledges South African Institutions for achieving the most improved research over the last few years – both excellent and accelerated growth!

The University also hosts the award-winning and outstanding Institute for Water and Wastewater Technology (IWWT) that continues to produce high impact outputs, train postgraduate students and is home to a number of researchers and multi-disciplinary teams.

Since 2018, with its thriving entrepreneurial incubation programmes, the University also has a track record of students who have successfully established their own small micro and medium businesses. This addresses our socio-economic challenges and joblessness of graduates in our region.

DUT has positioned itself as a key player in the entrepreneurship sector. It is a recipient of the 2021 Entrepreneurial Development in Higher Education (EDHE) Leadership in Entrepreneurship Award, awarded for its leadership in entrepreneurship within the South African higher education landscape. DUT was awarded the Diamond Arrow Award

for Leaders and Achievers: Outstanding-First Overall in KwaZulu-Natal, at the Professional Market Research (PMR Africa) Awards in 2020 and 2021, in the category for stimulating the economic growth and development of the KwaZulu-Natal province.

The University offers excellent student entrepreneurship support and it has established the award-winning innobiz DUT Centre for Entrepreneurship and Innovation - Social Entrepreneurship Rapid Incubator, DUT Enactus and the University's Entrepreneurship Programmes run across all Faculties.

In addition, the Cooperative Education Directorate also offers students support in finding Work Integrated Learning placements, as required by their programmes, as well as graduate placements.

DUT has been the recipient of several national and international awards and accolades. In 2021, DUT was awarded the Global Award for Innovation and Excellence in Internationalisation by the Association of International Education Administrators (AIEA), based in the United States, thus, showcasing its Stewardship and Living Values aligned to DUT's strategy, ENVISION2030.

According to the Times Higher Education World University Rankings for 2021 and 2022; DUT was ranked amongst the top 500 universities globally and in 5th position nationally. In the Citations category in 2021, DUT ranked 10th globally and 12th globally in 2022. On the Citation pillar alone, DUT ranked 1st overall in South Africa both in 2021 and 2022 respectively.

DUT was also ranked in the Top 100 universities in Emerging Economies by the Times Higher Education Emerging Economies World University Rankings 2021 and was ranked 2nd in South Africa and in position 102 in the world by the Times Higher Education (THE) Young University Rankings 2021.

DUT was ranked internationally in the Top 100 for Ethical Value and in the Top 300 of all institutions of higher learning, in the World's Universities with Real Impact (WURI) 2021 rankings. DUT was ranked 112 globally in the 2022 Times Higher Education Young University Rankings and 2nd amongst South African Universities in the 2022 Times Higher Education Young University Rankings.

DUT hosts the DUT Confucius Institute, the Urban Futures Centre, Institute for Systems Science, Food Science and Nutrition, Green Engineering, Smart Grids, Global Health and Sustainability and other research focus areas.

DUT also has two University Technology Stations that have been supported by the Technology Innovation Agency from their inception: The DUT Energy Technology Station known as "KZN Industrial Energy Efficient Training and Resource Centre" (IEETR); The Reinforced and Moulded Plastics Technology Station.

DUT has officially established its new Business School under the ambit of the Faculty of Management Sciences. Its curriculum is focused on applied business which will enable leaders to solve real-life problems.

The School offers a variety of academic programmes, executive education courses and short learning programmes. The DUT Business School also designs tailor-made, in-house programmes and collaborates with corporate, public and non-profit organisations to develop and capacitate employees in various areas.

At its core, DUT has "People-Centred and Engaged" and "Innovative and Entrepreneurial" as its DNA strands. As part of its Stewardship Perspective of ENVISION2030, its values are Transparency, Honesty, Integrity, Respect, Accountability, Fairness, Professionalism, Commitment, Compassion, Excellence.

The University always strives to be an anchor institution that is constantly engaged with its community and richly embedded within its regional ecosystem while remaining nationally and globally connected and relevant.

GENERAL INFORMATION

DUT is located in the beautiful cities of Durban and Pietermaritzburg, in the Province of KwaZulu-Natal. It can be classified as a medium-sized institution.

NUMBER OF CAMPUSES



FACULTIES

1. Faculty of Accounting and Informatics
2. Faculty of Applied Sciences
3. Faculty of Arts and Design
4. Faculty of Engineering and the Built Environment
5. Faculty of Health Sciences
6. Faculty of Management Sciences

BUSINESS UNITS

DUT Business School

RESEARCH FOCUS AREAS

1. Water
2. Enzyme Technology
3. Nanotechnology
4. Food and Nutrition Security
5. Computational Modelling and BioAnalytical Chemistry
6. Systems Science
7. Urban Futures
8. Peace Building - International Centre for Non-Violence (ICON)
9. Indigenous Knowledge Systems and Drug Delivery Systems - Plant Biotechnology
10. Management Studies
11. Energy
12. ICT and Society
13. Maternal Health Studies
14. Transformation through the Arts and Design
15. Smart Grids
16. Green Engineering
17. Space Science Programme
18. GenderJustice, Health and Human Development
19. Global Health and Sustainability (with a focus on Public Health and the Burden of Disease)



CENTRES OF EXCELLENCE

- Centre for Excellence in Learning and Teaching (CELT)
- innobiz - DUT Centre for Entrepreneurship and Innovation
- KZN Industrial Energy Efficient Training and Resource Centre (IEETR) (DUT Technology Station)
- Reinforced and Moulded Plastics (Technology Station)
- International Centre for Nonviolence (ICON)

RESEARCH CHAIRS

1. South African Research Chairs Initiative (SARChI): National Research Foundation (NRF) Chair in Development and Optimization of Wastewater Treatment Technology for Developing Economics
2. Banking Sector Education and Training Authority (BANKSETA) Research Chair: Digitisation
3. Wholesale and Retail Sector Education and Training Authority (W&RSETA) Chair

ENROLLMENT NUMBERS (2021)



VICE-CHANCELLOR



Professor Thandwa Mthembu



ADDRESS (MAIN CAMPUS)

Steve Biko Campus, Durban University of Technology,
79 Steve Biko Road, Berea, Durban, 4001

www.dut.ac.za

MANGOSUTHU UNIVERSITY OF TECHNOLOGY (MUT)



MUT is one of six Universities of Technology in the Republic of South Africa. Located at Umlazi Township, we are named after our founder Prince Mangosuthu Buthelezi, who upon realising that under Apartheid in 1974, there was no technology institution in KwaZulu-Natal. In 1979 Mangosuthu Technikon opened its doors to its first fifteen students. We were established against a backdrop of transforming the lives of the disenfranchised, and today that very same thread of 'transforming' is still the cornerstone of where we would like to be. This has been added to our vision of 'transforming, equitable, sustainable, academically excellent and anchored in our communities'.

MUT has three faculties: Engineering, Management Sciences and Natural Sciences. Forty-one years later, MUT has a total population of about 14,500 students with a gender parity of 50/50. We accommodate close to 90% of our student population on campus and across 43 outsourced residences. International students are accommodated in a dedicated residence, named after the acquired Executive Hotel.

The MUT Strategy 2025 has given MUT greater impetus to revitalise Umlazi Township through an anchor strategy. This anchor strategy will strengthen a systematic approach towards empowering Umlazi Township with relevant stakeholders. As a University of Technology, MUT has a competitive advantage of a formalized Work Integrated Learning (WIL) programme which enables students to experience the world of work, which is mandatory for them to complete before they can graduate with a qualification.

NUMBER OF CAMPUSES



Campuses in Umlazi

RESEARCH AREAS

- Human and social settlements and development
- Energy and the environment
- Health and food security
- Green Technologies
- Environmental Pollution and Remediation
- Environmental Management and Invasive plants
- Climate Change and Adaptation

FACULTIES

Faculty of Engineering
Faculty of Management Sciences
Faculty of Natural Sciences

BUSINESS UNITS

None

CENTRES & UNITS

Centre for Algal Biotechnology

RESEARCH CHAIRS

DST/NRF/NDP Chair in Sustainable Work, Education, Environment and Transformation (SWEET)

- Professor Theo C. Haupt

Research Chair of Human Settlements – Professor Logan Naidoo

ENROLLMENT NUMBERS



VICE-CHANCELLOR



Professor Marcus Ramogale
– Acting Vice-Chancellor & Principal



ADDRESS (MAIN CAMPUS)

P O Box 12363
Jacobs
4026

511 Mangosuthu Highway
Umlazi
4031

www.mut.ac.za



**Tshwane University
of Technology**

TSHWANE UNIVERSITY OF TECHNOLOGY



The administrative seat of TUT is located in Tshwane. In a very short period, this institution has grown into the third largest contact university in Africa, with seven faculties offering programmes in science, engineering and technology, business and management, education and humanities.

NUMBER OF CAMPUSES



1. Pretoria:
(Pretoria, Arts and Arcadia)
2. Soshanguve
3. Ga-Rankuwa
4. Polokwane
5. eMalahleni
6. Mbombela

FACULTIES

1. Faculty of Engineering & Built Environment
2. Faculty of Management Sciences
3. Faculty of Science
4. Faculty of the Arts & Design
5. Faculty of Economics & Finance
6. Faculty of Humanities
7. Faculty of Information & Communication Technology

RESEARCH & INNOVATION NICHE AREAS

1. Advanced Catalysis Technologies
2. Applied Refrigeration and Thermal Energy Systems
3. Assessment for learning
4. Climate Change and Disaster Management
5. Critical Studies in Visual Arts
6. Enterprise Development and Management Research in the BRICS Block
7. Information & Communication Technology for Business Enhancement (ICT4BE)
8. Information & Communication Technology for Development (ICT 4D)
9. Material Composites
10. Operations and Engineering Management
11. Reconstruction of the Past and Crafting a New Multicultural South African Landscape through the Arts
12. Sustainability Management Accounting & Finance
13. The Future of Work and the Alleviation of Unemployment and Poverty

CENTRES, INSTITUTES, TECHNOLOGY STATIONS AND INCUBATORS (CITSIs

PER FACULTIES

CITSIs WHOLLY OWNED BY TUT:

1. Centre for Energy and Electric Power (CEEP), Engineering and the Built Environment
2. Institute for Advance Tooling (IAT), Engineering and the Built Environment
3. Centre for Environmental Health, Science
4. Technology Station in Chemicals (TSC), Engineering and the Built Environment
5. Technology Station in Electronics (TSE), Engineering and the Built Environment
6. Marketing Research & Development Centre, Management Sciences
7. Centre for Tissue Engineering (CTE), Science
8. Institute for Economic Research on Innovation (IERI), Economics and Finance
9. F' SATI– French South African Institute of Technology Institute, Engineering and the Built Environment
10. Institute for Nano-engineering, Engineering and the Built Environment
11. Centre for Creative Industries, The Arts and Design
12. Centre for Sustainable Tourism, Management Sciences
13. Centre for Entrepreneurship Development, Management Sciences
14. Institute for Future of Work (IFoW)
15. Centre for Applied Chemistry Research, Science
16. Rail Manufacturing Centre for Entrepreneurship Rapid Incubator (RMCERI), Engineering and the Built Environment

DST/NRF CENTRES OF EXCELLENCE

17. DST-NRF Centre of Excellence in Scientometrics, Economics and Finance

RESEARCH CHAIRS, FLAGSHIPS AND PLATFORMS

RESEARCH CHAIRS

1. 4th Industrial Revolution
2. Acid mine drainage
3. African integration and innovation
4. Agrochemurgy and plant symbioses
5. Enabled environment and assistive living
6. Future transport manufacturing technologies (FTMT)
7. Gibela manufacturing and skills development
8. Innovation studies
9. Intelligent manufacturing
10. Phytochemical food network to improve nutritional quality for consumers
11. Phytomedicine
12. Spatial transformation (positive change in the built environment)
13. Sustainable solutions to the problems of campus and school crimes in learning communities
14. Wastewater and solid waste management
15. Water quality and wastewater management
16. African Chair for Campus and School Public Safety

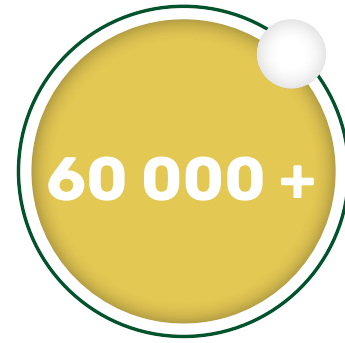
RESEARCH PLATFORMS

17. Pharmaceutical and biotech advancement in Africa

RESEARCH FLAGSHIPS

18. Energy and power

ENROLMENT NUMBERS



VICE-CHANCELLOR



Prof Tinyiko Maluleke



ADDRESS (MAIN CAMPUS)

Tshwane University of Technology
Building 21, 5th floor, room 553
Staatsartillerie Road
Pretoria-West, 0183
Private Bag X680, PRETORIA, South Africa, 0001

www.tut.ac.za



**VAAL UNIVERSITY
OF TECHNOLOGY**

Inspiring thought. Shaping talent.

VAAL UNIVERSITY OF TECHNOLOGY (VUT)



Vaal University of Technology is a tertiary institution in South Africa. Established in 1966, situated on the Southern tip of Gauteng, physically located in small town known as Vanderbijlpark. We are now a fully-fledged University of Technology. Offers industry-tailored academic programmes. We draw students from 29 Countries across the globe. It is one of the largest residential Universities of Technology, with about 21040 students, 300 programs, all primarily taught in English. The campus and facilities are conducive to learning, research,

recreation and sport, art and culture, and community service. We are the only university in SA that fully owns a Science and Technology Park and only University in SA that offers Non-Destructive Testing Course.

NUMBER OF CAMPUSES



BUSINESS UNITS:

None

CENTRES OF EXCELLENCE

Awaiting approval

RESEARCH CHAIRS

0

RESEARCH FOCUS AREAS:

Faculty of Human Sciences

- Sustainable Integrated Human Sciences Development in the Sedibeng district

Faculty of Applied and Computer Sciences

- Medical, Health & Wellbeing
- Water & Remediation
- Information Systems & Smart Technology Applications

Faculty of Management Sciences

- People management and organisational behaviour studies
- Supply chain, logistics and sustainability studies
- Digital marketing, consumer behaviour studies, leisure sport marketing and sustainability
- Financial and cost management accounting, and accountability

Faculty of Engineering and Technology

- Manufacturing Technologies
- Water
- Energy supply
- Sustainable Beneficiation

ENROLLMENT NUMBERS -2021

19 900



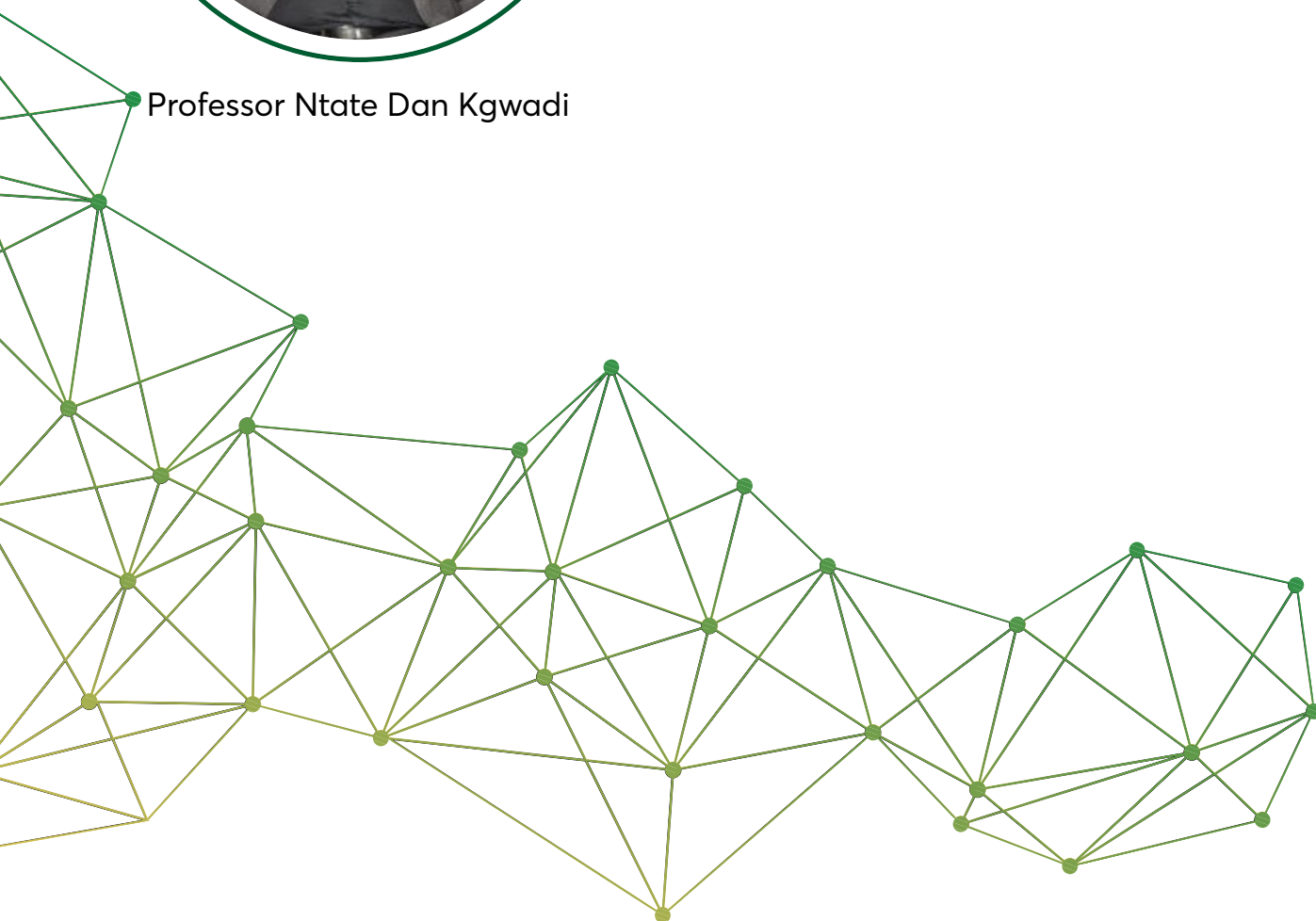
VICE-CHANCELLOR AND PRINCIPAL:



ADDRESS (MAIN CAMPUS)

Private Bag X021, Andries Potgieter BLVD,
Vanderbijlpark 1900

Professor Ntate Dan Kgwadi





UNIVERSITY OF MPUMALANGA

UNIVERSITY OF MPUMALANGA (UMP)



UMP is located in Mbombela, Mpumalanga Province, South Africa

NUMBER OF CAMPUSES



Mbombela and Siyabuswa

ENROLMENT NUMBERS



RESEARCH AREAS

- Ethics and Governance
- Information Communication and Technology for Development
- Youth Development and Empowerment
- Environmental and Socio-economic Sustainability
- Post-harvest Management and Food Security
- Biodiversity Conservation and Development
- Early childhood Development, Education and Training

FACULTIES

- Faculty of Agriculture and Natural Sciences
- Faculty of Economics, Development and Business Sciences
- Faculty of Education

BUSINESS UNIT

Centre for Entrepreneurship Rapid Incubator

VICE-CHANCELLOR



Prof Thoko Mayekiso



ADDRESS (MAIN CAMPUS)

University of Mpumalanga
Cnr R40 & D725 Roads, Mbombela, 1200

www.ump.ac.za

WALTER SISULU UNIVERSITY



Walter Sisulu University is large institution with over 28000 students and 2,000 staff members. It is situated in the Eastern Cape with campuses in Mthatha, Buffalo City, Butterworth and Komani.

NUMBER OF CAMPUSES



FACULTIES



RESEARCH AREAS

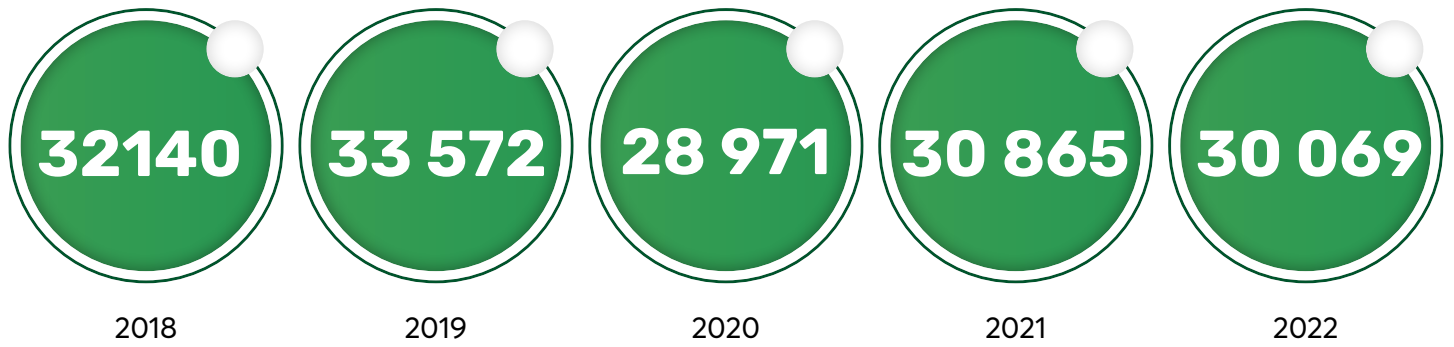
1. Renewable Energy Technologies
2. Process Technologies & Material Science in Engineering
3. ICT for Sustainable Development
4. African Medicinal Flora and Fauna
5. Cardio-Metabolic Health Research
6. Sustainable marine & Freshwater economic development
7. Small-scale Agribusiness & Rural Non-farm Enterprise Research
8. Creative and Cultural Technology & Industries
9. Human rights & development
10. Sustainable development & contemporary issues in society and education

CENTRES OF EXCELLENCE

Faculty of:
Health Sciences
Visual Art
Mechanical Engineering

RESEARCH CHAIRS
There is currently only one on Sustainable Rural Development.

ENROLLMENT NUMBERS



VICE-CHANCELLOR & PRINCIPAL



Prof. Rushiella Nolundi Songca



ADDRESS (MAIN CAMPUS)

Nelson Mandela Drive Site
Mthatha Campus
Mthatha

www.wsu.ac.za



University of Venda
Creating Future Leaders

UNIVERSITY OF VENDA (UNIVEN)



The University of Venda (UNIVEN), situated in the fast-growing Town of Thohoyandou, opened in 1982. This year, 2022, UNIVEN is celebrating forty years of existence. Since its establishment, the University has experienced tremendous growth and change. During its early years, teaching staff were drawn from various backgrounds in South Africa and by 1994 recruitment was expanded to African countries and abroad. The presence on campus of staff from diverse backgrounds created a unique atmosphere and a fertile environment for new ideas and a

capacity for change. In 2002, the Department of Education (DoE) mandated that the institution transform itself into a Comprehensive University, offering academic, applied sciences and technological and vocational programmes.

As a Comprehensive University, UNIVEN combines the two streams of instruction, thus offering a wide range of career-focused programmes. During each stage of its educational transformation, the University aligned its mission and vision to ensure that the needs of its students would be met. The process of transformation created significant changes in administrative governance and in the size and shape of the curriculum.

NUMBER OF CAMPUSES



Situated in Thohoyandou

RESEARCH AREAS

- African Heritage
- Earth Systems and the Environment
- Sustainable and Rural Development
- Human and Animal Health
- Law and Education

FACULTIES

The University of Venda has four faculties:

1. Faculty of Management, Commerce & Law (FMCL) offers a wide range of undergraduate and postgraduate programmes in Criminal Justice, Mercantile and Private Law, Public Law, Financial Accounting; Business Management; Cost Management; Economics; Human Resources and Labour Relations; Information Systems, Public Administration, Management and Governance; and Tourism Management.

The qualifications awarded by FMCL include Bachelor of Administration, Bachelor of Arts in Criminal Justice, Bachelor of Laws and Bachelor of Commerce in (Accounting, Business Information Systems, Business Management, Economics, Human Resource Management and Labour Relations, and Tourism). The Faculty also offers postgraduate programmes such as Honours, Masters of Commerce, Master of Administration, Masters of Laws, Doctor of Administration and Doctor of Philosophy.

No	Departments	Disciplines
1	Mercantile Law and Private Law	• Mercantile and Private Law
2	Public Law	• Public Law
3	Criminal Justice	• Criminal Justice
4	Accountancy	• Financial Accounting • Cost Management
5	Economics	• Economics
6	Business Management	• Business Management
7	Human Resource Management and Labour Relations	• Human Resource Management • Industrial Psychology
8	Tourism and Hospitality Management	• Tourism Management
9	Public and Development Administration	• Public Administration
10	Extended Bcom Programme	• Accounting Science

2. The Faculty of Humanities, Social Sciences and Education is a result of a merger of the former School of Education and School of Human and Social Sciences. The newly integrated faculty has a combination of some extraordinary talent, with an increased potential to make a transformative impact on the fields of Education, Human and Social Sciences. Needless to say, this is aimed to deliver tangible benefits for colleagues, students, and community.

The faculty offers a rich variety of courses within five broad categories:

- Arts (Music)
- Languages (IsiNdebele, Northern Sotho, SiSwati, Tshivenda and Xitsonga, English Language and Linguistics)
- Professional Programmes (Journalism and Media Studies, Language Practice, and Social Work).
- Social and Development Studies (Sociology, Psychology, Anthropology, Political Science, History and Philosophy, Indigenous Knowledge System and Heritage Studies, Youth in Development).
- Education (Early Childhood Education, Educational Studies)

In line with the University's quest to realise its strategic thrusts, the Faculty comprises ten (10) Departments as the main drivers of its strategic plan. The Departments serve as teams that ensure efficient and effective measuring (monitoring and evaluation) of delivery of the University's strategic thrusts. The following table presents the very Departments and their respective disciplines:

No	Departments	Disciplines
11	Department of Early Childhood Education	• Education
12	Department of Professional and Curriculum Studies	• SP & FET Education • PGCE • Life Sciences Education • Chemistry Education • Physics Education • Curriculum Studies • Mathematics Education
13	Department of Educational Studies	• Education
14	Department of Human Sciences	• Anthropology • Archaeology • History • Theology • Religious Studies
15	Departments of Arts and Social Sciences	• Music • Political Sciences • International Relations • Sociology • Development studies
16	Department of English, Media Studies and Linguistics	• Languages and Literature, • Media Studies • Linguistics • English communication skills
17	Department of Social Work	• Social Work
18	Department of Youth in Development	• Gender Studies, • Youth Studies
19	Department of African Languages	• Language Practice • Tshivenda • Xitsonga • IsiNdebele • Northern Sotho
20	Department of Indigenous Knowledge Systems and Heritage Studies	• Indigenous Knowledge Systems and Heritage studies

3. Faculty of Health Sciences

The Faculty of Health Sciences did not merge with any of the former schools. However, it migrated from a school to a Faculty with 5 Departments.

No	Departments	Disciplines
1	Department of Advanced Nursing Science	• Nursing Science • Nursing Education • Community Nursing Science • Nursing Administration

2	Department of Biokinetics, Recreation and Sport Science	<ul style="list-style-type: none"> • Biokinetics • Recreation and Leisure Studies • Sport and Exercise Science • Sport Management • Sport Coaching
3	Department of Nutrition	<ul style="list-style-type: none"> • Nutrition • Public Health Nutrition
4	Department of Psychology	<ul style="list-style-type: none"> • Psychology
5	Department of Public Health	<ul style="list-style-type: none"> • Public Health

4. Faculty of Science Engineering and Agriculture

The Faculty of Science, Engineering and Agriculture comprises of 15 academic departments, the centre for assisted animal reproduction, the experimental farm and the Vuwani Science Resource Centre. The Faculty hosts the only NRF-DSI SARChI Chair in Biodiversity Value and Change and has a B2 rated researcher, 14 C-rated and 5 Y-rated researchers. The Faculty programme qualifications mix (PQM) includes a 3 year Diploma, 3 year and 4 year Bachelor degrees, honours degrees, masters and doctorate degrees. The Faculty of Science, Engineering and Agriculture prepares graduates for the future world of work and for active citizenry. Our curriculum and programmes are designed to equip students with advanced technical and professional skills valued by employers. The Faculty employs qualified academics to teach cognitive discipline and supervise research that equips students with knowledge, skills and attributes that ensures student graduateness. The Faculty conducts multi-and transdisciplinary research and engages communities, industry, local and provincial government towards collaborative co-creation of knowledge, local economic development, solving societal problems and improving service delivery.

No	Departments	Disciplines
21	Department of Food Science and Technology	<ul style="list-style-type: none"> • Food Science
22	Department of Animal Science	<ul style="list-style-type: none"> • Animal Science
23	Department of Plant and Soil Sciences	<ul style="list-style-type: none"> • Plant Production • Soil Science
24	Department of Agricultural Economics and Agribusiness	<ul style="list-style-type: none"> • Agricultural Economics • Agribusiness Management • Horticultural Science • Agriculture and Biosystems Engineering
25	Department of Forestry	<ul style="list-style-type: none"> • Forestry
26	Department of Physic	<ul style="list-style-type: none"> • Physics & Chemistry • Mathematics & Physics
27	Department of Chemistry	<ul style="list-style-type: none"> • Chemistry & Mathematics • Chemistry & Biochemistry • Chemistry & Applied Chemistry
28	Department of Biological Sciences	<ul style="list-style-type: none"> • Botany and Zoology • Diploma in Freshwater Technology
29	Department of Biochemistry and Microbiology	<ul style="list-style-type: none"> • Biochemistry & Microbiology • Biochemistry & Biology • Microbiology & Botany • Chemistry & Biochemistry

30	Department of Mathematical and Computational Sciences	<ul style="list-style-type: none"> • Mathematics & Applied Mathematics • Financial Mathematics & Applied Mathematics • Mathematics & Statistics • Chemistry & Mathematics • Computer Science • Computer Science & Mathematics
31	Department of Geography and Environmental Sciences	<ul style="list-style-type: none"> • Environmental Sciences • Disaster Risk Reduction • Environmental and Natural Resource Science
32	Department of Science Foundation Department of Earth Sciences	<ul style="list-style-type: none"> • All Disciplines
33	Department of Earth Sciences	<ul style="list-style-type: none"> • Mining & Environmental Geology • Hydrology & Water Resources • Mine Surveying
34	Department of Urban and Regional Planning	<ul style="list-style-type: none"> • Urban & Regional Planning
35	Department of Agricultural and Rural Engineering	<ul style="list-style-type: none"> • Agricultural and Biosystems Engineering

BUSINESS UNIT

None

RESEARCH CHAIRS

1 NRF SARChi Chairs

- Biodiversity Value and Change Prof Foord

CENTRES OF EXCELLENCE

- Centre for Entrepreneurship and Innovation
- Vuwani Science Resource Centre
- MER Mathivha Centre for African Studies
- Centre for Gender Studies
- ESKIA Mphahlele Centre for African Studies
- Institute for Rural Development
- Centre for Assisted Animal Reproduction
- OR Tambo Institute of African Leadership and Governance
- Univen Art Gallery
- Univen Creche

ENROLLMENT NUMBERS

Faculty	Postgraduate	Undergraduate	Total
Health Sciences	195	806	1001
Science, Engineering And Agriculture	552	4284	4836
Management, Commerce And Law	242	3761	4003
Humanities, Social Sciences And Education	407	4557	4964
Total	1396	13408	14804

VICE-CHANCELLOR

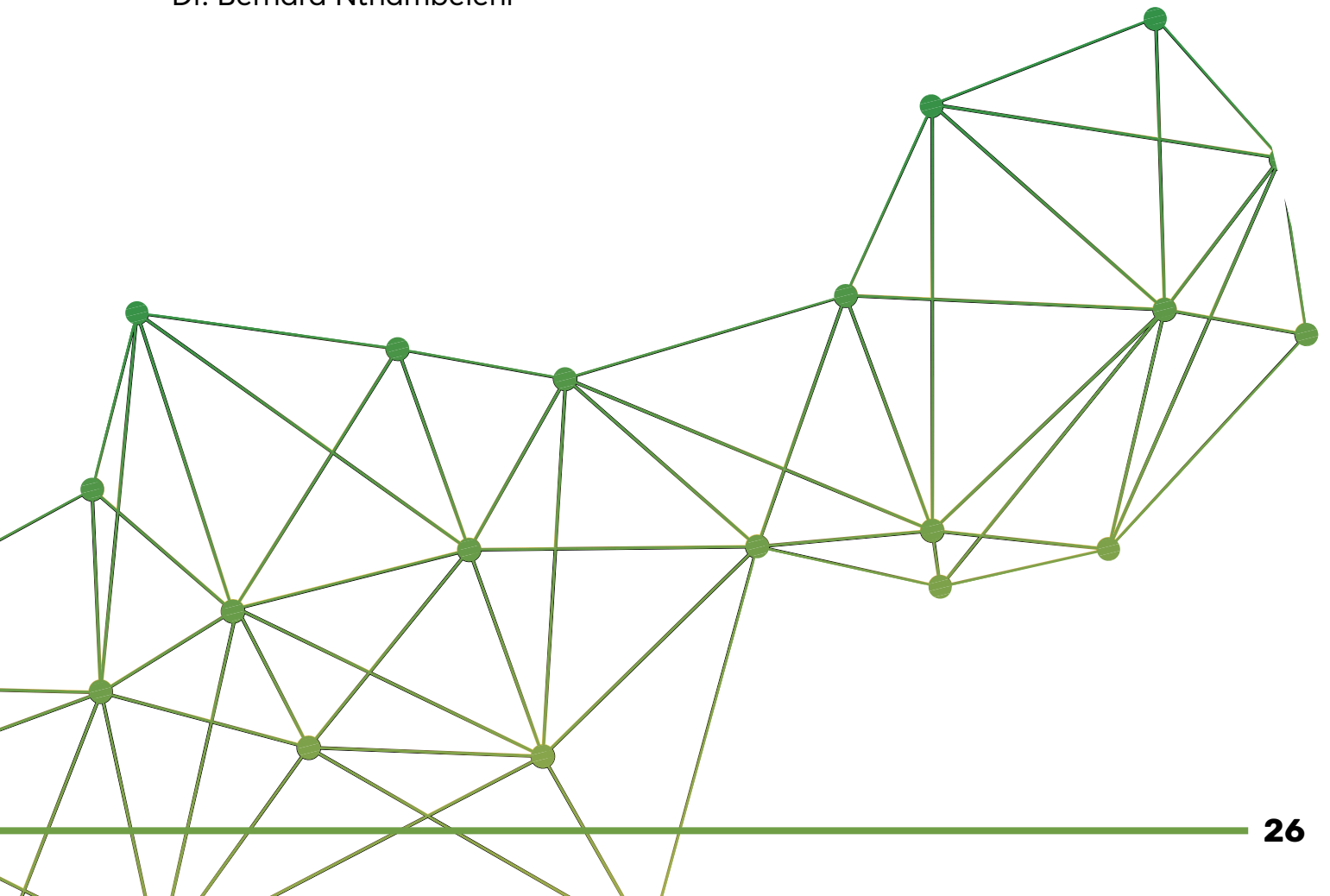


Dr. Bernard Nthambeleni



ADDRESS (MAIN CAMPUS)

University of Venda
 University Road
 Thohoyandou
 0950
www.univen.ac.za





NAMIBIA UNIVERSITY OF SCIENCE AND TECHNOLOGY

NAMIBIA UNIVERSITY OF SCIENCE AND TECHNOLOGY (NUST)



The Namibia University of Science and Technology (NUST) is mandated by the Namibian Act of Parliament (7 of 2015) to promote national competitiveness by providing multiple opportunities for excellence in education, applied research, innovation and service. The University has been in existence since 1994 as the Polytechnic of Namibia. The University strives to be a premier technological university known for knowledge creation, innovation and entrepreneurship. It boasts with a modern, metropolitan campus in the centre of the capital

city, Windhoek, Namibia, with a vibrant and exciting blend of historic and contemporary buildings; state-of-the-art classrooms, auditoria, laboratories, library and technological infrastructure.

RESEARCH AREAS (selected)

1. Digital Humanities
2. Health and Climate Change
3. Indigenous Knowledge Systems
4. Sustainable Water, Energy and Food (WEF Nexus)
5. Transport and Logistics
6. Land, Livelihood and Housing
7. Natural Resources and Value Chain Stewardship
8. Sustainability

NUMBER OF CAMPUSES



Windhoek and Eenhana, with eleven (11) regional centres in Namibia.

FACULTIES



1. Faculty of Computing and Informatics
2. Faculty of Engineering and the Spatial Sciences
3. Faculty of Health, Applied Sciences and Natural Resources
4. Faculty of Commerce, Human Sciences and Education

CENTRES OF EXCELLENCE

1. India-Namibia Centre of Excellence in Information Technology
2. Innovation Design Lab
3. Centre for Enterprise Development
4. Materials Testing Institute
5. FABlab Design and Technology Centre
6. Namibia Business Innovation Institute
7. Namibian-German Innovation Institute
8. Namibian Energy Institute
9. Biodiversity Research Centre
10. Agribusiness and Trade Policy Institute
11. Earth Observation Satellite Application Training Centre
12. Centre for Mineral Beneficiation

RESEARCH CHAIRS

Four (4):

1. UNESCO Chair on Sustainable Water Research for Climate Adaption in Arid Environments
NAMIBIA
2. UNESCO Research Chair in Digital Technologies for Gender
3. UNESO Research Chair in Secure High-Performance computing in Higher Education.
4. UNESCO Research Chairs, in Technology Co-design with Indigenous and Marginalized Communities

BUSINESS UNITS

None at the moment, NUST Commercial Company Holding (planned to be established for the strategic period 2021-2025)

ENROLLMENT NUMBERS



The total enrolment for 2022

Faculty	Enrolment
Computing and Informatics	1793
Engineering and Spatial Sciences	2341
Health, Applied Sciences and Natural Resources	1685
Commerce, Human Sciences and Education	7676
Non degree purposes	16
Total	13511

VICE-CHANCELLOR



Dr Eroid Naomab



ADDRESS (MAIN CAMPUS)

13 Jackson Kaujeua Street, Windhoek West, Windhoek,
NAMIBIA

www.nust.na



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La Lucia

Umhlanga, KwaZulu Natal

South Africa

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Detailed information can be found on THENSA website <https://thensa.co.za>