

Fast

FACTS &

FIGURES

2022



Tshwane University
of Technology

We empower people

A PEOPLE'S UNIVERSITY THAT MAKES KNOWLEDGE WORK

TUT: Established in 2004

We are the **BIGGEST** contact university of technology in Africa.



We attract more than **60 000** students annually.

Student gender ratio:



Female
31 178
53,10%



Male
27 554
46,90%

More than **1 000** international students are registered at TUT, comprising undergraduate, postgraduate, exchange students and postdoctoral fellows.



3 946 students are registered for postgraduate qualifications

- 1 737 Masters,
- 569 Doctorates,
- 535 Honours and
- 1 105 Postgraduate Diplomas



The University has **SIX** campuses, namely Tshwane (Pretoria, Arts and Arcadia), Soshanguve, Ga-Rankuwa, Polokwane, eMalahleni and Mbombela, with two contact centres in Durban and Cape Town.



5 500

staff members are currently employed at the University.



We boast **seven campus clinics** offering health services to students and staff.

TUT offers more than

400

career options across all faculties.



34

student residences across TUT campuses.



37

I-Centres across all campuses.

TWO

campus radio stations that cater for students, staff and surrounding communities. TUT FM is located at the Soshanguve Campus and Tshwane FM at the Pretoria Campus.

In 2022, more than **11 000** students graduated at the Autumn graduation ceremonies.



TUT has more than **220 000**

alumni who are also part of the convocation.

Headcount and graduation rate per faculty

Total students 2019-2021

Faculty	2019			2020			2021		
	Headcounts	Graduates	Graduation Rate	Headcounts	Graduates	Graduation Rate	Headcounts	Graduates	Graduation Rate
ENG. & THE BUILT ENVIRONMENT	10 117	2 383	23,6%	8 669	1 869	21,6%	7 197	1 881	26,1%
ARTS & DESIGN	1 826	510	27,9%	1 805	531	29,4%	1 714	532	31,0%
ECONOMICS & FINANCE	7 658	2 773	36,2%	7 578	2 159	28,5%	7 453	2 875	38,6%
SCIENCE	9 605	2 507	26,1%	8 759	2 332	26,6%	8 232	2 136	25,9%
HUMANITIES	16 134	4 355	27,0%	14 538	3 789	26,1%	13 358	4 097	30,7%
INFORMATION & COMMUNICATION	7 666	1 038	13,5%	6 839	798	11,7%	6 775	766	11,3%
MANAGEMENT SCIENCES	14 667	3 305	22,5%	14 294	3 419	23,9%	13 706	3 892	28,4%
Grand Total	67 673	16 871	24,9%	62 482	14 897	23,8%	58 435	16 179	27,7%

Headcount and graduation rate per faculty

Undergraduates 2019-2021

Faculty	2019			2020			2021		
	Headcounts	Graduates	Graduation Rate	Headcounts	Graduates	Graduation Rate	Headcounts	Graduates	Graduation Rate
ENG. & THE BUILT ENVIRONMENT	9 508	2 290	24,1%	8 046	1 763	21,9%	6 660	1 793	26,9%
ARTS & DESIGN	1 735	498	28,7%	1 724	517	30,0%	1 626	507	31,2%
ECONOMICS & FINANCE	7 548	2 768	36,7%	7 474	2 149	28,8%	7 360	2 867	39,0%
SCIENCE	9 145	2 435	26,6%	8 296	2 215	26,7%	7 805	2 073	26,6%
HUMANITIES	14 771	3 900	26,4%	13 535	3 437	25,4%	12 530	3 920	31,3%
INFORMATION & COMMUNICATION	7 469	1 009	13,5%	6 647	780	11,7%	6 492	747	11,5%
MANAGEMENT SCIENCES	13 823	3 105	22,5%	13 448	3 161	23,5%	12 857	3 632	28,2%
Grand Total	63 999	16 005	25,0%	59 170	14 022	23,7%	55 330	15 539	28,1%

Headcount and graduation rate per faculty

Postgraduates 2019-2021

Faculty	2019			2020			2021		
	Headcounts	Graduates	Graduation Rate	Headcounts	Graduates	Graduation Rate	Headcounts	Graduates	Graduation Rate
ENG. & THE BUILT ENVIRONMENT	609	93	15,3%	623	106	17,0%	537	88	16,4%
ARTS & DESIGN	91	12	13,2%	81	14	17,3%	88	25	28,4%
ECONOMICS & FINANCE	110	5	4,5%	104	10	9,6%	93	8	8,6%
SCIENCE	460	72	15,7%	463	117	25,3%	427	63	14,8%
HUMANITIES	1 363	455	33,4%	1 003	352	35,1%	828	177	21,4%
INFORMATION & COMMUNICATION	197	29	14,7%	192	18	9,4%	283	19	6,7%
MANAGEMENT SCIENCES	844	200	23,7%	846	258	30,5%	849	260	30,6%
Grand Total	3 674	866	23,6%	3 312	875	26,4%	3 105	640	20,6%

Flagship Projects



TUT boasts a novel **Bursary and Scholarship Fund**, specifically aimed at alleviating insufficient funding available for financially needy and academically deserving students. **Over 20M** has been raised for the TUT Bursary and Scholarship Fund.

For **24** years, the University has offered more than 3 000 candidates the opportunity to improve their marks through the **Mathematics and Science Development Programme**, thus securing them acceptance into scientific, medical and engineering programmes at university level.

Assist-a-student Project, on its **10th** year now, is a University intervention programme focussed on food insecurity for needy students across all TUT campuses.

For **10 years**, staff members, alumni and students have been reaching out to the homeless, providing food and clothing and other interventions in Pretoria and Johannesburg, through a University Community Programme named **Feeding the Multitudes**.

Winter Shoe Project - The University has donated more than **18 000** pairs of shoes to primary schools in Pretoria since 2013.

The Day Care Mothers Community Project, one of the University's flagship community projects, spearheaded by the Department of Education Studies is an early childhood development project, equipping women with skills on how to take care of younger children.





The Tshwane University of Technology (TUT) is recognised as one of the best **11** universities in South Africa. This is according to the latest Times Higher Education ranking of the world's top universities for 2022, listing 11 South African universities among them.



We are ranked as **one of the best** computer sciences and engineering institutions in the world. This is according to the latest 2022 Times Higher Education World University Rankings by subject for computer science and engineering.



Our Department of Journalism is one of the best **12** Africa Centres of Excellence in Journalism training.



The **FIRST** Skin Bank in South Africa is based at TUT's Centre for Tissue Engineering.



We are **the only** institution in South Africa with a Faculty of Information and Communication Technology, offering diverse fields of study.



The University launched an **Institute for the Future of Work (IFoW)**, an ideation hub for global public-private collaboration and invention, designed to respond to the requirements of the rapidly changing world of work brought about by the 4IR.



Our Department of Auditing at the Faculty of Economics and Finance is among 47 international higher education institutions accredited by the Institute of Internal Auditors in the United States of America (USA), as part of an internal Auditing Education Partnership (IAEP) school.

**Unique
Features**



Unique Features



The University also boasts **the Tshwane School for Business and Society (TSB)**, one of the top internationally rated Business Schools on the African continent. The school is accredited by the South African Council of Higher Education (CHE) to offer a Masters in Business Administration (MBA) and a Doctorate in Business Administration (DBA).

TUT Solar Car (SunChaser) – Staff members and students at the Faculty of Engineering and the Built Environment built an energy efficient, high technology solar powered vehicle, which was ranked **NUMBER ONE** in the Sasol Solar Challenge, and achieved fourth place internationally. There are only a handful of solar cars in Africa, and TUT is the top performing teams on the continent.

We are the **only** University of Technology in South Africa offering an **M.Eng Degree in Engineering Management.**

TUT's Department of Drama and Film, established in **1971**, is the oldest training facility for filmmakers in South Africa and its courses are based on classical methodology, similar to world-famous international film schools.

We are the only university of technology in South Africa offering a **sign language** module to Language Practice undergraduate students.





The Gibela Research Chair in Manufacturing and Skills Development

pioneers cutting-edge research in manufacturing technology development and manufacturing value chain skills development, geared for the revitalisation of the South African railway manufacturing sector. The aim is to build 600 state-of-the-art passenger trains for the South African rail network over the next 5 years.



The Faculty of Humanities boasts an the **Africa Research Chair for Campus and School Public Safety**, a first of its kind on the African continent. The chair

contributes extensively to focussed research in finding knowledge-based, innovative solutions that could stem the tide of school/campus-based crimes and, in the longer run, violence on the African continent.



TUT in partnership with SAP Africa has been running the **First Lego League Robotics Programme** for 15 years. The First Lego League's mission is to inspire young people to become science and technology leaders. This is done by engaging them in exciting mentor-based programmes that build science, engineering, and technology skills, inspire innovation, and foster well-rounded life capabilities, including self-confidence, communication, and leadership.



A world-class **automated weather station** is based at the Pretoria Campus. The facility is the first of its kind to be based at a university in South Africa and monitors local conditions, especially as an early warning system.

**Unique
Features**



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RESEARCH & INNOVATION NICHE AREAS



NICHE AREA TITLE	FACULTY
Sustainability Management Accounting and Finance	Economics and Finance
Climate Change, Water Security and Disaster Management	Engineering and the Built Environment
Assessment for Learning	Humanities
Reconstruction of the Past and Crafting a New Multicultural South African Landscape through the Arts	Arts and Design
Critical Studies in Visual Arts	Arts and Design
Information and Communication Technology for Development (ICT4D)	Information & Communication Technology
Applied Refrigeration and Thermal Energy Systems	Engineering and the Built Environment
Information and Communication Technology for Business Enhancement (ICT4BE)	Information & Communication Technology
Advanced Catalysis Technologies	Engineering and the Built Environment
Operations and Engineering Management	Engineering and the Built Environment
Material Composites	Science
Enterprise Development and Management Research in the BRICS Block	Management Sciences
The Future of Work and the Alleviation of Unemployment and Poverty	Management Sciences

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CENTRES, INSTITUTES, TECHNOLOGY STATIONS AND INCUBATORS (CITSIs)

CITSIS	FACULTY	FOCUS
CITSIs WHOLLY OWNED BY TUT		
Centre for Energy and Electric Power (CEEP)	Engineering and the Built Environment	Conducting research and provide services (including training) in energy and electric power.
Institute for Advanced Tooling (IAT)	Engineering and the Built Environment	Provide technical expertise/services to the SMEs/industry in tooling industry.
Centre for Environmental Health (CEH)	Science	Provides expertise to industry and the community through Community Engagement, Industry involvement, Research and Innovation in the environmental health and related sectors.
Technology Station In Chemicals (TSC)	Engineering and the Built Environment	TSC is operating in the chemical technology sector and position itself in the chemical industry to assist SME's as the main clients with the technology solution, skills development through short learning programme, technology demonstration and transfer.
Technology Station in Electronics (TSE)	Engineering and the Built Environment	To assist SMMEs with services covering a wide field of key performance areas consisting of product development, manufacturing, training and consultation in electronics manufacturing sector.

CITSIS	FACULTY	FOCUS
CITSIS: WHOLLY OWNED BY TUT		
Marketing Research & Development Centre	Management Sciences	Provide services such as ad hoc marketing feasibility attitudinal studies based on requests from industry as well as internally generated ideas.
Centre for Tissue Engineering (CTE)	Science	The CTE is a Tissue bank that generates income from the supply of tissues for transplant purposes to hospitals around the country. The center sources, processes and supplies human tissue for implant, transplant and therapeutic purpose in order to enhance the quality of life.
Institute for Economic Research on Innovation (IERI)	Economics and Finance	IERI was established for the purposes of developing research and innovation in Economics and Economic policy within TUT and South Africa in general. Focus Areas to be summarised as: <ul style="list-style-type: none"> • Evidence-based Policy Research • Competency Support
		<ul style="list-style-type: none"> • Capacity Development • Networking and Knowledge sharing.
F'SATI	Engineering and the Built Environment	The French South African Institute of Technology is considered a national asset that contributes to the creation of knowledge and prosperity and the transfer of technology in the Southern African region by establishing collaboration with other higher education and research institutes.

CITSIS	FACULTY	FOCUS
CITSISs WHOLLY OWNED BY TUT		
Institute for Nanoengineering (INER)	Engineering and the Built Environment	INER accelerate innovation and skills development in nanotechnology and advanced materials processing through the promotion of collaborative interdisciplinary research and technology transfer between academia and relevant industries.
Centre for Creative industries	Arts and Design	To promote creativity, innovation and entrepreneurship through capacity development and training of cultural professionals and increasing employment opportunities in the cultural and creative industries sector for inclusive and equitable economic growth and sustainable development.
Centre for Sustainable Tourism	Management Sciences	To serve tourism destinations and industries through research, training and outreach within the communities.
Centre for Entrepreneurship Development	Management Sciences	To foster entrepreneurship and to serve start up with mentoring, coaching, training, access to networks to accelerate their success and create jobs for economic development.
Centre for Applied Chemistry Research	Science	Centre for Applied Chemistry Research is to conduct chemistry based research into the many challenges facing the country and the wider scientific community and to provide a platform and mechanisms whereby research capabilities can be matched with funding sources while contributing to the country's intellectual and skills development and developing perspectives and approaches that lead to cooperative work and a coherent and focused research effort.

CITSIS	FACULTY	FOCUS
CITSISs WHOLLY OWNED BY TUT		
Institute for Future of Work		<p>The IFoW will work with companies across sectors, including technology, financial services, health care and manufacturing, to create a community of advocates and partners at the highest level.</p> <p>The strategic objectives of the Institute are to:</p> <ul style="list-style-type: none"> • Engage in high-impact research and facilitate industry-funded and directed research in the areas of 4IR and Future of Work. • Develop 4IR technologies that solve local problems. • Optimize the use of TUT resources to serve the industry better in the area of 4IR • Provide an ideational platform for strategic dialogue and thinking on 4IR among different stakeholders in South Africa and internationally. • Forge strategic relations with the industry and Government to enhance work integrated learning (WIL) opportunities and funding for students. Influence curricula development endeavours and pedagogical practices to centre 4IR technologies in the University's instructional offerings. • Build capacity and capability for 4IR technologies at TUT; and generate new businesses in areas of 4IR technologies.
Rail Manufacturing Centre for Entrepreneurship Rapid Incubator (RMCERI)	Engineering and the Built Environment	The Incubator exists to develop young, technologically innovative, entrepreneurs and establish profitable SMME's that would have a tangible impact on wealth creation, localisation, and industry diversification

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RESEARCH CHAIRS



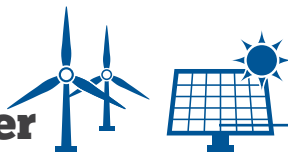
Water Quality and Wastewater Management	Science	Environmental, Water & Earth Sciences	NRF SARCHI
Innovation Studies	Engineering and the Built Environment	Department of Industrial Engineering	NRF SARCHI
Phytochemistry	Science	Pharmaceutical Sciences	NRF SARCHI
Acid Mine Drainage	Science	Environmental, Water & Earth Sciences	NRF SARCHI
Enabled Environment and Assistive Living	Engineering and the Built Environment	Electrical Engineering/French South African Institute of Technology (F'SATI)	NRF SARCHI
Phytochemical Food Network to Improve Nutritional Quality for Consumers	Science	Crop Sciences	NRF SARCHI

RESEARCH CHAIR AREA	FACULTY	DEPARTMENT/INSTITUTE	TYPE OF CHAIR
Spatial Transformation (Positive Change in the Built Environment)	Engineering and the Built Environment	Architecture and Industrial Design	NRF SARCHI
Future Transport Manufacturing Technologies (FTMT)	Engineering and the Built Environment	Industrial Engineering	DSI-NRF-SARCHI
Gibela Manufacturing and Skills Development			Gibela
4th Industrial Revolution	Information and Communication Technology (ICT)	Computer Systems Engineering	MICTSETA
Wastewater and Solid Waste Management	Engineering and the Built Environment	Civil Engineering	EWSETA
Intelligent Manufacturing	Engineering and the Built Environment	Office of the Dean/ Technology Station in Electronics (TSE)	MerSETA
Sustainable Solutions to the Problems of Campus and School Crimes in Learning Communities	Humanities	Safety and Security Management	Campus and School Public Safety
African Integration and Innovation	Economics and Finance	Institute for Economic Research on Innovation	UNESCO Chair
Infrastructure Research Chair	Engineering and the Built Environment	Electrical Engineering	DBSA
Sustainable Energy: Photovoltaic Nanocomposites.	Science	Physics Department	TUT Research and Development Platform

RESEARCH CHAIR AREA	FACULTY	DEPARTMENT/INSTITUTE	TYPE OF CHAIR
Pharmaceutical and Biotech Advancement in Africa	Science	Pharmaceutical Sciences	TUT Research and Development Platform
Sustainable Energy: Energy Solutions for Sustainable Living	Engineering and the Built Environment	Chemical, Metallurgical and Materials Engineering	TUT Research and Development Platform

Research Flagship Area

Energy and Power



Faculty:

Engineering and the Built Environment

Department/Institute:

Electrical/CEEP/Dean's Office

Type of Flagship:

NRF: Research and Innovation for Societal Development



R9 970 000

Internal funding provided for postgraduate students (2022)



R76 110 754

The overall amount dedicated to the University's internal research (2022)



We had
4 TUT
athletes selected
to be part of the
**2020 Tokyo
Olympics.**



FOOTBALL

- **3** students receive call-ups annually to the SA Senior Women's Football National Team - **Banyana Banyana.**
- We have exported more than **5** players to **Europe in women's football**, the biggest export is with AC Milan in Italy.
- In men's football, TUT sport produced more than **10** PSL players, **2** are playing for the National team - **Bafana Bafana.**
- Our women's football team won the #Varsity **Football** tournament **6 times.**
- TUT Women's Football team is ranked **9th** position according to **the International Federation of Football History and Statistics (IFFHS) Women's Club Continental Rankings 2022.**

TUT was appointed as a **strategic partner** by Minister of Sport Arts and Culture, Hon Nathi Mthethwa and successfully launched

THE SPORT AMBASSADORS PROGRAMME

at Lihawu Secondary School, Kanyamazana Mbombela on
14 March 2022.





Stephen Mokoka, TUT Athletics coach, broke the **50km world record** in a time of 2:40.13 in Gqeberha on 6 March 2022 at the Nedbank Runified 50km race. His exceptional achievement was acknowledged by the South African Parliament - National assembly.

THREE Athletes selected for the Athletics South Africa (ASA) preparations squad for **2022 World Athletics Championships and Commonwealth Games** include TUT's Sokwakhana Zazini (400mH), Lindokuhle Gora (400mH), Coach Stephen Mokoka (Marathon).



In Netball, we have the Spar Protea Assistant Coach at TUT,
Dumisani Chauke



TUT Aerobics team achieved **3RD POSITION** in the Adult Step Category in the Federation of International Sports Aerobics and Fitness (FISAF) Online World Championships in 2021.



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