





UNIVERSITY OF PRETORIA YUNIBESITHI YA PRETORIA

Faculty of Engineering, Built Environment and Information Technology Fakulteit Ingenieurswese, Bou-omgewing en Inligtingtegnologie / Lefapha la Boetšenere,

1.1.01

Tikologo ya Kago le Theknolotši ya Tshedimošo



1956

The Faculty of Engineering, Built Environment and Information Technology (EBIT) was established in 1956.

LEGACY OF EXCELLENCE

1908

The University of Pretoria was established in 1908. Today, it is one of the largest research universities in South Africa. UP has transformed into a dynamic university community of staff and students who come from a range of diverse backgrounds and cultures showcasing South African and global societies.

TEACHING & LEARNING



Our educational approach has a strong focus on inclusivity and equitable access to education, but ultimately on equity of outcomes. UP effectively uses contact sessions in traditional lectures, seminars, laboratories and practical sites, together with online learning platforms. This has enabled access and success for an increasing number of students. The teaching and learning approach is based on inquirybased learning, hybrid learning and community-based learning. This means that students can ask questions and do research in their field to learn and discover answers on their own; while also being taught in a classroom environment and accessing additional resources online.

VISION & GOALS



OUR VISION

A leading research-intensive university in Africa, recognised internationally for its quality, relevance and impact, and also for developing people, creating knowledge and making a difference locally and globally.



OUR GOALS ARE TO

- 1. Enhance access and successful student learning
- Strengthen the University's research and international profile
 Foster and sustain a transformed, inclusive
- and equitable University community
- 4. Optimise resources and enhance institutional sustainability
- 5. Strengthen the University's social consciousness and its impact on society

HYBRID LEARNING

Through UP's hybrid model of teaching and learning, part of the learning is dependent on access to the online learning management system known as ClickUP.

A system is in place for students to buy their own devices at very competitive rates but more than **6 000** computers are available in computer laboratories across all campuses and within residences for student use. There are Wi-Fi hot spots across all campuses for use by students with their own devices.



FACULTY OF ENGINEERING, BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

Global technology is evolving at an exponential rate. To respond to this, the Faculty of Engineering, Built Environment and Information Technology is developing sustainable technologies for inclusive societies. The Faculty prides itself in equipping a generation of innovators to innovate our tomorrow.

28%

EBIT produces an estimated 28% of South African engineers



ACADEMIC OFFERING



undergraduate postgraduate degree programmes

degree programmes

SCHOOL OF ENGINEERING SCHOOL FOR THE BUILT ENVIRONMENT SCHOOL OF INFORMATION TECHNOLOGY GRADUATE SCHOOL OF TECHNOLOGY MANAGEMENT



specialised academic departments

FACILITIES

EBIT boasts over **90 laboratories** across three of the

University's campuses.

This includes the state-of-the-art Engineering 4.0 Complex.



RANKINGS



TOP 1%

of engineering schools in the world

TOP 352

in the world for engineering and technology (featuring in the top 550 in **FIVE** different engineering and technology subject areas)

TOP 33

in the world for mineral and mining engineering

TOP 200

in the world for architecture and built environment

#1

in South Africa for electrical and electronic engineering (three years running)

in South Africa for materials science and metallurgical engineering Minerals Education Trust Fund

Rankings based on 2021/22 QS Rankings & ISI Essential Science Indicators

ENGINEERING 4.0



EBIT's state-of-the-art Engineering 4.0 Complex is a research and training hub for smart transport systems and smart cities in partnership with SANRAL, CSIR and York Timbers. Its research will support the economic growth of South Africa through the improved understanding of vehiclepavement interaction. Research conducted at Engineering 4.0 will contribute to UP's ranking as **94**th in the world for contributions to SDG 9: Industry, Innovation and Infrastructure.

JCP

COMMUNITY-BASED PROJECT MODULE

Through the Faculty's compulsory community-based project module (JCP), students participate in community service and service-learning projects for 40 hours during the course of their studies.

23 000⁺

students have completed the JCP module since its inception in 2005

ENGAGE

ENGINEERING AUGMENTED DEGREE PROGRAMME

The ENGAGE programme provides a carefully structured engineering curriculum to help students adjust to university life and cope with academic demands.

The UP Way

It's as much about where UP comes from as to **where we are headed**

It's about UP's excellence, innovation, diversity, growth, kindness and **making a difference** every day

It's about what we do to...

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Make today matter

MARCH 2023 UPDATE