







## female winner of the 2022 Midmar Mile

By Wilhelm De Swardt | Photographer: Reg Caldecott

Stephanie Houtman, a 19-year-old Tuks swimmer, was the winner of the women's Midmar Mile. Her Tuks training partner, Samantha Randle, came second.

When asked how she felt about her success, Houtman said: 'I live for the sense of achievement one experiences when one's body is pushed to the limit. Long-distance open-water swimming takes its toll as it is a type of contact sport. You will be kicked, punched or dragged under at least once, especially over the first few 100 m. This year, I only began swimming my own race after the first 400 m.'

During last year's South African Short Course Championship, Houtman won the 1500 m freestyle event and came second in the 800 m race.

Her next major challenge will be the South African Open Water Championships to be held in Jeffreys Bay in March 2022. She also hopes to compete at the Birmingham Commonwealth Games, but it is not yet clear whether there will be an openwater swimming event.

Another Tuks swimmer, Gary Albertyn, won the men's 51-60 race in 21 m 11 s, which is remarkable considering that he swam the 16-mile charity challenge the day before. He has also swum 142 miles for charity during recent Midmar Mile events.



🕜 Stephanie Houtman

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# Marione Fourie aims to complete the 100 m hurdles in under 13 seconds

By Wilhelm De Swardt | Photographer: Reg Caldecott



Marione Fourie

Nineteen-year-old Marione Fourie, a Bachelor of Sports Science student, is determined to complete the 100m hurdles in under 13 seconds in 2022. In March, she set a new personal best running a time of 13.10 s.

She has actually been faster. The South African 100 m-hurdles champion managed to do something no other local hurdler had been able to, when competing at the Gauteng North Championships held in March at Tuks, that is: dipping under 13 seconds locally.

Fourie won in 12.86 s. Unfortunately, the wind from behind was 2.2 m/s which means her time was not official. Fourie can be satisfied knowing she is only the third South African female athlete to dip under 13 seconds in the 100 m-hurdles.

Six days later, in Bloemfontein, she set a new personal best, winning the 100 m-hurdles in 13.10 s at the first Grand Prix Meeting.

It proves she is on track to run a sub 13 seconds race. Fourie has already improved by 0.19 s in the last two months.



### **EBIT online Open Day and EBIT Week**

### We innovate your tomorrow!

The EBIT Week is a biannual four-day holiday programme presented by the Faculty of Engineering, Built Environment and Information Technology (EBIT) for learners in Grades 10, 11 and 12.

Prospective students are offered this hands-on opportunity to obtain information regarding all the disciplines offered by the School of Engineering, Built Environment and the School of Information Technology.

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During this event, learners are introduced to both the practical and theoretical aspects of the various courses offered in order to help them make sound career choices. As part of the programme, learners also obtain either on-site or off-campus industry exposure.

To accommodate all learners, an online EBIT Open Day for Grade 8 to 12 learners will be presented on Saturday, 9 April 2022.

**Contact information** 

**Email** emly.mathe@up.ac.za **Website** www.up.ac.za/ebit-week

Hi! I'm EB Study with me.

Online Open Day 9 April 2022

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#### Faculty of Engineering, **Built Environment and** Information Technology

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### Smart technology brings man and machine closer together

Smart Woef or SmWoef, as it is known in UP's Faculty of Engineering, Built Environment and Information Technology, is a quadruple robot that is applied to safely and in a managed way assist with the collection of useful data in environments that are inaccessible or unsafe for humans, or of a high-risk and repetitive nature.

Prof Wynand Steyn, the Head of the Department of Civil Engineering, and Jordan Mostert, a postgraduate student in the Department of Civil Engineering, located in the Engineering 4.0 complex, are the owners of SmWoef and are currently training it to assist researchers with their projects.

Contact information **Prof Wynand Steyn** 

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#### **Paying it forward**

On Saturday, 5 March 2022, the EBIT staff and students paid it forward when they visited the Edward Phathudi Comprehensive School in Atteridgeville to encourage the learners to never give up on their dreams.



The EBIT Faculty has adopted the school as part of its outreach programme and will present training and motivational programmes to support both the learners and their educators. The Faculty will also establish a computer centre at the school.

Mr Mkhwanize, the principal, said: 'We will never get tired of inspiring young people to follow their dreams', to which EBIT responded by saying: 'Neither will we.'

#### **Contact information Email** estie.powell@up.ac.za Website www.up.ac.za/ebit

- Mechanical and Aeronautical Engineering is an internationally accredited programme.
- One group of the EBIT staff and students who gave their time and knowledge
- ← Mr Tlou Mokabedi from the Department of Mechanical and Aeronautical Engineering is eagerly explaining to the learners why this programme is a good choice





#### **Faculty of Education**

Fakulteit Opvoedkunde Lefapha la Thuto

#### **BEd (Foundation Phase Teaching)**

The BEd (Foundation Phase Teaching) programme entails the teaching of young children between 3 and 9 years. Students doing the programme have a choice to specialise in Early Childhood Development (3 to 6 years) or Foundation Phase (Grade 1 to 3) fields.

Students gain admission to the programme with appropriate combinations of recognised NSC subjects and certain levels of achievement in the said subjects.

In this regard, the determination of an admission point score (APS) is explained. In addition, a summary of faculty-specific requirements, ie the APS and the specific subjects required, is presented in the yearbook and programme. The calculation of the APS is based on a candidate's achievement in six 20-credit subjects using the NSC ratings—that is, the 1 to 7 scale of achievement. The highest APS that can be achieved is 42.

#### Who is the ideal candidate?



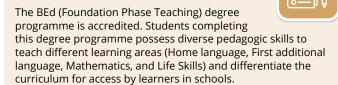
Students who are compassionate, hardworking, and committed to the teaching profession excel in this programme.

#### **Career opportunities**



Teachers and training officials in pre-primary or primary schools.

#### What makes this programme unique?



Additionally, the programme equips the student with unique skills and attributes to identify learning difficulties during formational stages of development and provide interventions for learning success.

#### Structure of programme



#### **Core modules**

- Education
- Research project
- Teaching practice (Work Integrated Learning)
- Foundation phase Mathematics
- Literacy practice: English or Literacy practices: Afrikaans (Geletterdheidspraktyke)
- Human movement studies
- Methodology of learning support
- Learning support
- Arts and culture (music and art)
- Natural sciences and technology
- Life skills programme
- Health and safety
- Conversational competence in an African language (for students taking English and Afrikaans as an elective)

#### **Elective modules**

One language elective up to second-year level:

- English
- Afrikaans
- isiZulu
- Sepedi
- isiNdebeleSetswana

#### Minimum admission requirements: NSC/IEB

Programme	Achievement level	
Programme	English Home Language or English First Additional Language	APS
BEd (Foundation Phase Teaching) [Grade R to Grade 3] [4 years] Close on availability of space: As soon as the number of places available for this programme are filled, it will be closed for further applications.	4	

For qualifications other than the NSC/IEB, click here.

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#### **Faculty of Education**

Fakulteit Opvoedkunde

### **BEd (Intermediate Phase Teaching)**

The BEd (Intermediate Phase Teaching) programme consists of fundamental, core and elective modules that prepare students to teach effectively in multilingual and multicultural classrooms.

#### Who is the ideal candidate?

Individuals with a passion for learners and learning should apply for this degree programme. Successful candidates should be dedicated and hardworking, and passionate about teaching and learning.

#### Career opportunities

Teachers and training officials in primary schools.



#### What makes this programme unique?

The BEd (Intermediate Phase Teaching) degree programme qualifies the successful candidate to teach a language and another subject/learning area. Languages serve as conduits/mediums through which effective communication is conducted in any classroom. Subsequently, the language elective will give the beginner-teacher the edge in

#### Structure of programme

#### **Core modules**

- Education
- Learning support
- Professional studies
- Research methodology
- Teaching practice
- Conversational competence in an African language

#### **Elective modules**

One language elective up to second-year level:

- One of four African languages/English/Afrikaans
- Mathematics (an achievement level of at least 4 in the final NSC/IEB examination is required)
- Geography/History
- Art education
- Music education
- Natural sciences and design and technology
- Life orientation and human movement studies



#### Minimum admission requirements: NSC/IEB

Programme	Minimum requirements for NSC and IEB for 2023		
	Achievement level		
	English Home Language or English First Additional Language	APS	
BEd (Intermediate Phase Teaching) [Grades 4 to 6] [4 years] Close on availability of space: As soon as the number of places available for this programme are filled, it will be closed for further applications.	4		
Careers: Teachers and training officials in primary schools			

For qualifications other than the NSC/IEB, click here.

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Across the planet, approximately one million animal and plant species are currently facing extinction. On land, indigenous species have declined by at least 20% since 1900, and in the world's oceans an estimated 33% of corals and marine mammals—including whales and dolphins—are under threat.

The alarming truth is that the loss of ecosystems also threatens human existence on our planet. To raise awareness of this threat, the United Nations introduced World Wildlife Day, to be celebrated on 3 March.

In the Department of Zoology and Entomology at UP a number of researchers are involved in research that is vital to the conservation of animals. These include birds (Hot Birds Research Project), frogs, fish, rodents, and large mammals such as rhinos, elephants, lions, wild dogs, seals, and whales.

If you are fascinated by animals and want to join this exciting and dynamic Department, we invite you to consider registering at the University of Pretoria for either the BSc (Ecology) or the BSc (Zoology) programme.



#### Read the full article here:

www.up.ac.za/faculty-of-natural-agricultural-sciences/news/post\_3050865-worldwildlifeday-understanding-wildlife-as-a-way-to-save-them

### #International Day of Forests

#### 'Forest entomology is the key to healthier forests' - UP forestry experts

By Professors Almuth Hammerbacher, Bernard Slippers, Brett Hurley and Chris Weldon of the Forestry and Agricultural Biotechnology Institute (FABI) at the University of Pretoria



Wood is a valuable renewable resource used widely across various sectors, from the paper, textile and bioelectronic industries to construction and mining. When forests resources are sustainably harvested, they provide economic, environmental, cultural and human health benefits.

To raise awareness of the importance of forests and promote more sustainable forestry practices, the United Nations proclaimed 21 March the International Day of Forests.

Pest control strategies form a vital part of sustainable forest management. South Africa is a global leader in this regard, with 80% of the country's timber plantations certified by the international Forest Stewardship Council.

Compared to conventional agriculture, SA forestry uses minimal amounts of pesticides and relies on cultural practices, biological control and breeding resistant trees and pheromones. This was largely achieved through the close partnership and knowledge exchange between forest

entomologists at the University of Pretoria (UP) and foresters in the industry.

The SA forestry industry is a significant contributor to the economy and annually produces approximately 18.2 million cubic metres of wood with an estimated value of R40 billion. Commercial forest plantations in SA consist mainly of *Eucalyptus*, pine and wattle trees. Unfortunately these highly productive tree species are vulnerable to attacks by indigenous and introduced insect pests.

#### **Biological control**

One of the most sustainable and environmentally friendly ways of controlling insect pests and drastically reducing their population levels is to introduce their natural enemies into the environment. These include insect diseases, predators and parasites.

More than 20 years ago, forestry companies teamed up with forest pathologists and entomologists at UP to identify environmentally friendly pest control strategies for forest plantations. This partnership has led to important changes in how forest pests are managed, while also providing UP students with the training and skills needed to join the workforce as forest entomologists.

Forest entomologists at UP have identified biocontrol agents for most of the important forestry pests in SA. To ensure that they do not cause damage to the native insects, these agents are studied in quarantine laboratories before being released into the field. Once their safety has been established, they are mass-reared in the laboratory and released in plantations where high levels of pest insects occur.

UP forest entomologists often travel to the native lands of insect pests to find new biocontrol agents that have better survival traits. The next expedition will visit Southeast Asia to identify biocontrol agents that can be deployed against the polyphagous shothole borer, which is killing native and indigenous trees in cities and landscapes throughout SA.



 A Eurasian wood wasp, Sirex noctilio, laying its eggs in a pine tree. (Photo: Bernard Slippers)

#### **Natural and Agricultural Sciences**

#### Volatile signals

Insects communicate with each other by smell. The volatile chemicals released by insects to attract mates, signal fear or communicate vital information are called pheromones. Pheromones offer an important way to manage pests in forests as they can be used to confuse insects and disrupt their mating behaviour. Researchers at UP recently identified the mating pheromone of the Eucalyptus cossid moth, which is indigenous to SA, but has switched its host and is now a major pest attacking cold-tolerant *Eucalyptus* species. The forestry industry uses pheromone to monitor this pest in plantations and for mass trapping. UP scientists are producing the pheromones and designing dispensers to release the pheromone in a controlled way, as well as the layout for the placement of traps for optimal insect catches.

### Tree breeding for resistance to insect damage

All plants have evolved ways for warding off insect feeding by producing protective measures such as scales, thorns, resin or harmful chemicals. However, during the past 100 years tree breeders have focused mainly on improving productivity and wood

quality and have neglected defences against insect attacks, with the result that many tree varieties grown in SA are currently particularly susceptible to insect damage.

In response, forest entomologists at UP started screening tree varieties for insect feeding resistance and identified some chemical traits. For instance, they found that the *Eucalyptus* snout beetle, a major pest in *Eucalyptus* plantations worldwide, prefers to feed on leaves with high sugar and low fat content. Tree breeders are now using this information to select new varieties with low sugar and high fat content to develop planting stock for future plantations. A new greenhouse facility has also been built at UP to determine how resistant tree varieties are and identify the underlying reasons for their resistance.



 A Eucalyptus snout beetle, Gonipterus sp., feeding on a eucalyptus leaf (Photo: Johannes Joubert)

#### Knowledge exchange

A close partnership between industry and researchers speeds up investigations into economically relevant industry problems and the implementation of new management strategies in the field. The close connection between UP and SA's forestry industry is fostered by entomologists who work in plantations and invite foresters to attend research days at the University. Apart from creating employment opportunities for entomology students, UP's partnership with the industry also enables them to learn from industry and make an impact through their research projects.

#### Two InspiringFifty SA winners hail from Plant and Soil Sciences

By Martie Meyer

Two early-career scientists, Drs Jarishma Gokul and Khumbuzile Bophela from UP's Department of Plant and Soil Sciences, were selected as InspiringFifty South Africa winners for 2021. Each year this non-profit initiative selects and awards the 50 most inspiring women in #STEM as important role models to encourage more girls and women to follow careers in technology and inspire future leaders and entrepreneurs to follow in their footsteps.



**Dr Gokul**, who is a lecturer and Microbiome Research Group Leader in Plant Pathology, commented: 'I am humbled and very grateful to join this group of tenacious, inspiring women and leaders. I have been exposed to intelligent, strong and talented women, mentors and teammates. They have consistently inspired me to continue nurturing

my curiosity and ambition in delivering impactful contributions in science. This is a collective win for the amazing unsung heroes who have supported, taught and cheered me on.'

After having been awarded an NRF Study Abroad Scholarship, Dr Gokul completed her PhD in Polar Microbiology and Glaciology at Aberystwyth University, Wales, United Kingdom in 2017. She also acted as an expedition leader during the 2018 Sub Antarctic Marion Island Relief voyage and the 2019 Southern oCean seAsonaL Experiment research voyage.



**Dr Bophela** received a PhD in Microbiology from UP in 2021 and is a lecturer and Soilborne Diseases Research Group Leader in Plant Pathology, an alumna of Black Women in Science and an ASAPbio 2021 fellow. She responded to her selection as a winner as follows: 'Being recognised nationally affirms my role as an academic and my pursuit to

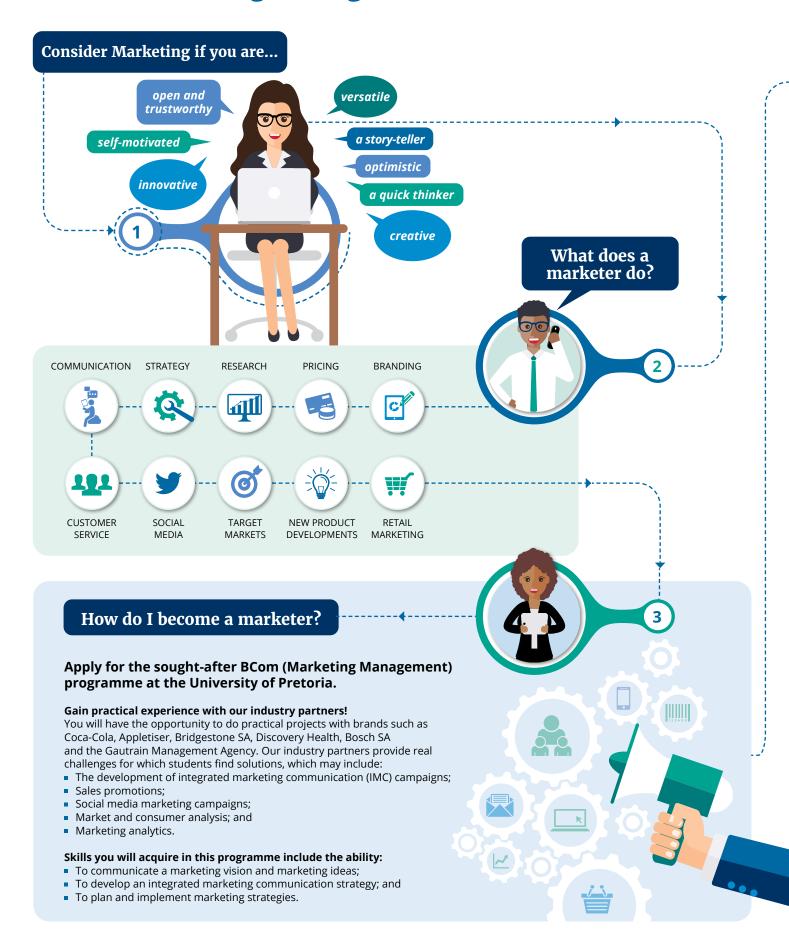
mentor young girls to take up STEM subjects at the secondary and tertiary education levels.

Being a member of the InspiringFiftySA organisation will lead to opportunities to build collaborative networks with like-minded women who occupy spaces in all parts of the STEM industry, such as the business sector, technology industries and academia.' She added that 'creativity and innovation are at their peak in a society that gives young girls and women equal STEM opportunities, leading to growth and success'.

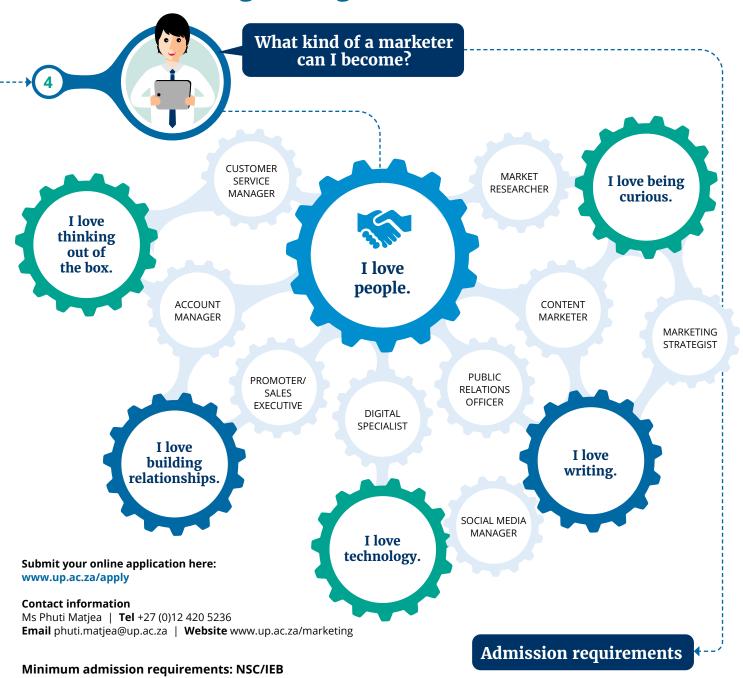
#### Read the full article here:

www.up.ac.za/faculty-of-natural-agricultural-sciences/news/post\_3052361-two-inspiringfifty-sa-winners-hail-from-plant-and-soil-sciences

### **BCom (Marketing Management)**



### **BCom (Marketing Management)**



	Minimum requirements for NSC and IEB for 2023		
Programmes	Achievem		
	English Home Language or English First Additional Language	Mathematics	APS
BCom (Marketing Management) [3 years] Close on availability of space: As soon as the number of places available for this programme are filled, it will be closed for further applications.	5	4	30

Note: Accounting at school is not a subject requirement for any of the BCom and BAdmin programmes.

For qualifications other than the NSC/IEB, click here.

For more information visit www.up.ac.za/marketing



### 'To hear for life, listen with care' — celebrating World Hearing Day

By Andrea du Toit

On 3 March 2022, the Department of Speech-Language Pathology and Audiology celebrated World Hearing Day—which raises awareness of the unrecognised epidemic of preventable hearing loss that affects people of all ages.



As part of the festivities, the research group at the WHO Collaborating Centre and the University of Pretoria partnered with the hearX Foundation and conducted screening events at Nokuphila Primary School in  $\dot{\text{Midrand}}$  and  $\dot{\text{Westbury}}$  Primary School in Johannesburg. UP was represented by PhD students Caitlin Frisby, Megan Knoetze and Bopane Mothemela.

A free mobile app called hearWHO, which is also available in Android and iOS app stores, was used for the screenings. To date, this app has been used to screen more than

300 000 people in more than 191 countries around the world.

During the two-day screening project the use of the available technology was demonstrated to the Department of Basic Education, proving that screening can be both accessible and affordable. The screenings also showed the audience that it is important to identify hearing difficulties in young children as early as possible since children with impaired hearing can struggle to learn and participate in school.

Contact information | Email heather.thynsma@up.ac.za | Website www.up.ac.za/humanities Read the full article here: www.up.ac.za/news/post\_3051456-world-hearing-day-prevention-and-early-identification-are-crucial-tocombating-avoidable-hearing-loss-who-collaborating-centre-for-prevention-of-deafness-and-hearing-loss-at-up

### **UPCT Celebrates Human Rights Day**

By Cindy Moliwa, Omphile Mantu, Angie Clarke and Lindo Magagula

In South Africa, Human Rights Day is a commemoration of the Sharpeville Massacre that took place on 21 March 1960. On that day, 69 people unfortunately lost their lives and 180 were wounded when police opened fire on participants in a peaceful protest against the apartheid pass laws. This iconic date in our country's history serves as a reminder of the sacrifices made for future generations.

This year, Human Rights Day coincided with the 25th anniversary of the adoption of the South African Constitution, which affirms and enshrines, among others, the democratic value of equality.

To commemorate what both the University and the country have achieved with regard to the promotion of equality, which is this year's international theme, the UP Campus Tours (UPCT) 2022 honours students celebrated Human Rights Day by creating a mega-poster to highlight this theme. The word EQUALITY was written in the centre of the poster and was surrounded by many handprints in different colours to emphasise the idea of South Africa as a rainbow nation.

UPCT 2022 is looking forward to celebrating more events of historic, artistic, natural and cultural significance throughout the year. Watch this space!

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Mega-poster



Two UPCT students leaving their handprints on the mega-poster

# **UP Law student crowned as Teen Universe South Africa 2022**

By Elzet Hurter

The Faculty of Law at the University of Pretoria would like to congratulate Nicole Daubern on being crowned as the winner of the annual Teen Universe South Africa 2022 pageant held at Carnival City on 27 February.

Commenting on the experience, Daubern wrote: 'The Teen Universe South Africa journey started seven months ago. Before the semi-finalist and finalist judging rounds, we participated in fundraising initiatives, charity events and interviews. Contestants were judged on personality, public speaking, community involvement and knowledge. This journey has been extremely rewarding as it has enabled me to encourage and inspire others and to promote positive change among young women in our country. Competitors form a sisterhood and learn the value of connections, and their leadership skills are strengthened. One of the most important things I have taken away from the pageant is the bonds formed during the final weekend.

Winning this has been surreal.

Pageants are more than just a crown; they demand hard work, training and dedication. I want to raise awareness about worthy causes. As Teen Universe South Africa 2022, I will represent SA in Nicaragua in May to compete for the Teen Universe Crown. I am extremely grateful for everything this pageant has taught me and am excited about the year ahead.'



Nicole Daubern, the winner of the annual Teen Universe South Africa 2022 pageant

Read the full article here:

www.up.ac.za/faculty-of-law/news/post\_3054234-up-law-student-nicole-daubern-crowned-as-teen-universe-south-africa-2022





# The spirit of Ubuntu is alive and well in the Faculty of Theology and Religion

By Bernalee Botha



For the first time in two years, the Faculty of Theology and Religion at UP 'opened the gates' to celebrate the start of a new season. The initial idea was to create an opportunity for first-year students to meet their fellow students in person, but this soon led to the decision that all students and staff members should be included.

The result was that on 17 February 2022, at the end of Orientation Week, members of the Theology family had the opportunity to meet and enjoy one another's company at Uitspan on the Hillcrest Campus. Strangers soon became friends; the karaoke singing was thoroughly enjoyed and there were smiling faces everywhere. As a family, we savoured the opportunity to share in the Faculty's renewed attempt to reach out to its members and would like to thank the House Committee for organising this successful event.

The Theology family strives to expand the Kingdom of God by building long-lasting friendships between people from different cultures, genders, ages, faculties, etc in the spirit of Ubuntu, which means 'I am because you are', emphasising the idea that human beings cannot exist in isolation. We need each other as we depend on connection, community and caring.

Our aim is to continue creating opportunities for students to establish personal relationships, to learn from one another and to grow in ways they could never have imagined.

Even though I am an introvert, I believe that I would have been a very different person if I had to spend an entire year of study without meeting any of my classmates or lecturers in person. I gratefully remember how, when I was a first-year student in 2016, the coffee dates with my friends after class, the advice from students from different year groups, the inspiration after a conversation with my professors, and the quick "Are you coping?" conversation with the peer advisor uplifted me.

I miss relaxing on the Faculty lawn while waiting for our next class. I miss the UP library. I miss the Wacky Wednesdays at Steers. I miss walking barefoot on campus. I miss meeting the diverse group of students who enriched my understanding of the world. I miss my student life. Therefore, my sincere wish for the students of 2022 is that the gates of the Faculty of Theology and Religion will be opened, even if only to some extent, so that they can experience the student life they dreamed of!' says







# Why TuksRes?

### Hoekom koshuislewe?

### Legae kgole le gae e ra goreng?

By Lanché van Tonder and Wehan Viljoen

The TuksRes motto is 'Legaegae - Real home', and we make your home away from home experience our priority.



Our residences offer students a real, welcoming home away from home.



#### STUDENT LIFE

Every residence is managed by loving and caring house parents, and it is in this environment that you will make friends who can support you, share experiences that define you, and strive with you to achieve academic and relational success. We host events such as Welcoming Week, cultural showcases, res socials and inter-res sports meetings. Amenities include swimming pools, recreational and dining halls and lush gardens.



#### **ACADEMICS**

TuksRes prides itself on exceptionally high GPAs in our residences. Students are here to obtain degrees, but also to be equipped with a range of life skills. Support systems include House Committees, tutors and senior students who mentor younger students.

Residences are equipped with state-ofthe-art study facilities, IT Labs and WiFi, and built-in desks in every room.



At TuksRes your safety is of the utmost importance. The security guards stationed at residence grounds regularly patrol the premises and patrol cars are on duty in areas adjacent to TuksRes properties. If you have to work in the library until late, you may request a security guard to accompany you back to your residence. Medical and emergency care are available 24/7.









1. The blossoming ladies of Erica. 2. The gentlemen of Tuks Ekhaya—always dressed to impress and ready for action. 3. Wandile Nzuza (Tuks Ekhaya), Chané Williamson (Madelief), Lennox Wassara (TuksFM) and Wehan Viljoen (House Ukuthula) at the 2021 TuksRes Academic Awards ceremony

4. Residence students from House Ukuthula spending time in their communal area after a long day of class.

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# The Department of Library Services at the University of Pretoria renovates the Music Library and Mamelodi Campus Library

By Isobel Rycroft and Sixolile Dlungwane

The renovation of two libraries at the University of Pretoria, namely the Music library and Mamelodi campus library commenced in 2021. The renovations involve upgrading the existing infrastructure and facilities to offer users more than just a seat to study in; the intention is to facilitate an experience that creates a conducive and productive space—encouraging creativity and collaboration.

The Music Library renovations included upgrading the flooring by replacing the carpets with vinyl flooring, acquiring new colourful chairs to brighten the mood of the library, and repainting the walls.

The Mamelodi Library renovations focused on improving safety and upgrading the facilities. The upgrades included a new air-conditioning system, five new seminar/

discussion rooms to promote student collaboration as well a new student computing area where a few computers have been installed. Another new feature of the library is the separation of the library collection area from the rest of the library building. As a result, the library operating hours have been extended and students can work until late. Student bathrooms and a new cafeteria area in the library will be built to provide students with convenience.

The Department of Library Services looks forward to welcoming students in the upgraded spaces.

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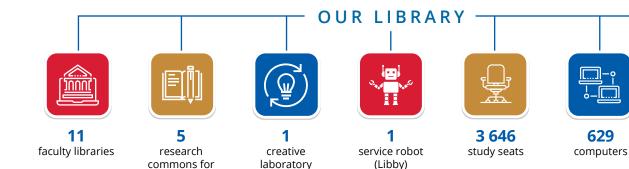


New seminar rooms in the Mamelodi campus library



• New bright furniture in the Music library

discussion rooms



(MakerSpace)

masters and

doctoral students