

News **Junior Tukkie**









JuniorTukkie student ambassadors host an enrichment camp at Kievits Kroon

By Sammy Makhubela

An enrichment camp hosted by the JuniorTukkie Student Ambassador's Society (JTSAS) at Kievits Kroon in Pretoria on 14 May 2022 was attended by 47 UP students and three members of the JuniorTukkie (JT) staff. The many activities, which included enrichment exercises, leadership training and learning, ensured that much fun was had by all.

On our arrival at the Kievits Kroon Wine Estate we were welcomed with coffee, tea and refreshments, after which the programme began. Members of the JTSAS staff and Student Executive Committee made sure that the programme was interesting and the topics dealt with were relevant. Their aim was to create opportunities for bonding and growth.

Topics on the agenda included:

- JuniorTukkie leadership
- What it means to be a JT ambassador
- The value of community engagement
- A personality test
- Team-building activities

The head of projects, Nomandebele Nyatlo, encouraged the participants to mix and get to know one another and said that 'providing opportunities to display leadership skills is always an important goal'. Members were also introduced to the Executive Committee of 2022 and were invited to share some information about themselves. True to the motto of JTSAS, 'Inspiring Future Leaders', the room was filled with discussion around the meaning of leadership and how leadership can be improved in the next generation. This allowed all those present to learn from each other's opinions and perspectives.

Our ability to work in teams was tested by an obstacle course for which we were split into four teams and had to work very closely together. What stood out in the team that finished first was their spirit of unity! They worked together very well and finished the obstacle course without a hitch and with much chatting and laughter.

The reviews we received after the enrichment camp were excellent! Comments included: 'If I were asked to rate the camp out of 10, my answer would be 100,' said Laura Lukele, a JTSAS member.

'I was impressed by the committee members who made us feel that we were all equal and participated in all the conversations and activities, especially the games. While striving to educate us, they simultaneously elevated our social network.'

JTSAS contact information | Tel +27 (0)12 658 1699 | Email jtprojects1@up.ac.za Website www.up.ac.za > Become a JuniorTukkie or juniortukkie.online

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Donor animals are saving other animals' lives

About JuniorTukkie









HR Fulbright student jets off to Vanderbilt University in the US By Refilwe Mabula

Lonwabo Makapela, a PhD student in the Department of Human Resource Management, will be joining Vanderbilt University in the US for 10 months as a visiting student researcher in gender studies as part of the US Fulbright Foreign Student Program. This program provides postgraduate students from abroad an opportunity to study and conduct research in the US.

This young lady who aspires to become a world-renowned gender expert is extremely proud of having been selected to be part of the prestigious US Fulbright Foreign Student Program and will be travelling to the US in

August to conduct research on hair bias and identity work among black women in organisations. Lonwabo is excited and looks forward to learning from top gender and diversity experts.

'Learning about my selection for the program was a real 'pinch me' moment, and the fact that I could celebrate this achievement with the members of my family who inspire and support me made me extremely happy.'



1 Lonwabo Makapela

Read the full article here:

 $\underline{www.up.ac.za/human-resource-management/news/post_3065030-hr-fulbright-student-jets-off-to-vanderbilt-university-us}$



THE HUMAN RESOURCE MANAGEMENT UNDERGRADUATE JOURNEY





Register and complete the BCom (Human Resource Management)

| Programmes | Minimum requirements for NSC and IEB for 2023 | | |
|---|---|-------------|-----|
| | Achievement level | | |
| | English Home Language or English First Additional Language | Mathematics | APS |
| BCom (Human Resource 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 |

Careers: Human resources practitioners, human resources consultants, mediators, labour relations specialists, human resources managers, personnel managers, training officers, liaison officers, psychometrists and industrial psychologists. In their capacity as human resources practitioners, graduates will be responsible for matters such as developing human resource strategies and policies, human resource planning, recruitment and selection of employees, training and development of staff, labour relations and personnel administration.

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

What will you study in the first three years?

Year one

- Introduction to industrial and organisational psychology
- How learning takes place at work
- Personality and how it develops
- How humans interact with their environment and the different roles we occupy in society

Year two

- The role of work teams in an organisation and group's behaviour
- The effect of power and leadership in organisations
- How organisations are structured and designed
- The best ways to bring about change in the workplace

- How to keep employees safe and healthy in the workplace
- How to manage the diversity of people in the workplace
- How to conduct psychometric tests (eg aptitude, interest, intelligence and personality)

Year three

- How to define what a specific job entails and to determine appropriate salary structures thereof
- How to plan for workforce recruitment, selection and orientation for newly appointed employees
- How to measure the performance of employees and motivate them toward organisational goals
- How to train and develop employees to enhance their performance and career potential









Humans, machines and the future of work

By Prof Hanlie Smuts (HOD Department of Informatics)

To create business value from data-driven decision-making, organisations must apply insights from both knowledge workers and intelligent machines. The world is seeing revolutionary advances in science and technology, and with the evolution of digital technologies there is a growing recognition that most workplaces are experiencing change.

If we consider the deep technological changes brought about in every organisational facet by the emergence of intelligent machines and Big Data structures, it becomes highly relevant to revisit assumptions about the nature of knowledge work.

The Faculty of Engineering, Built Environment and Information Technology (EBIT) at the University of Pretoria prepares its students for the future of work.

Innovate magazine

issuu.com/universityofpretoria/docs/innovate_16_2021_web Email hanlie.smuts@up.ac.za | Website www.up.ac.za/ebit



Society 5.0

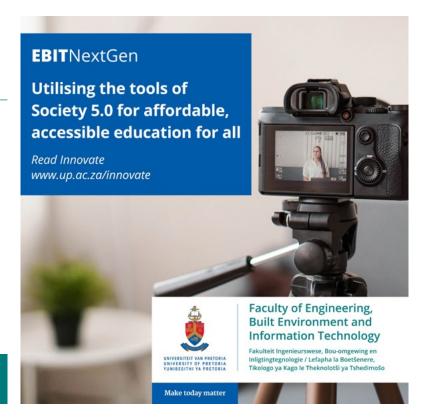
By Prof Alta van der Merwe (Deputy Dean: Teaching and Learning)

We live in exciting times that present us with numerous innovations and opportunities. However, as a society we also face many challenges. In this era of challenges and opportunities, a new concept is emerging: Society 5.0. This refers to a society that will not only be able to bring about economic advancement, but will also be able to resolve society's problems by merging cyberspace with the physical space, eliminating both the challenges related to location and the inequalities brought about by age, gender and language.

Education in Society 5.0 faces many challenges, the most pertinent being that, although the underpinning foundation is to do things for the greater good, care should be taken to ensure that solutions do not create new problems. The Faculty of Engineering, Built Environment and Information Technology (EBIT) at the University of Pretoria works to embrace new challenges in its teaching and learning activities.

Innovate magazine

issuu.com/universityofpretoria/docs/innovate_16_2021_web **Email** alta.vdmerwe@up.ac.za | **Website** www.up.ac.za/ebit





Metallurgical engineers ensure that industrial equipment functions well by optimising the material properties through processing and treatment. When the components fail, forensic metallurgists investigate it to find and correct the cause.

Metallurgical engineers:

- devise plans to optimally extract minerals from the earth;
- develop and manage mineral product quality;
- develop, manufacture and monitor the production and use of components made from metals and alloys;
- research the best methods to manufacture components for various applications including aerospace and medical implants;
- manage the environmental impact of processing plants (manufacturing processes);
- design innovative new components for the future; and
- investigate reasons for failure of components (forensic analysis and testing).

Will I bring value to my community?

Here is a video to show what you are capable of: www.youtube.com/watch?v=tiQWQA|vDug

Did you know?

UP is ranked among the top 100 universities for mining and minerals engineering in the world.



Did you know?

When you have finished your studies, you can advance engineering solutions in the mining industry for the Fourth Industrial Revolution (4IR).



Did you know? Africa has the largest minerals industry in the world.

Did you know?

Africa's mineral resources are essential to the world's new digital economy and the transition to green energy.





The University of Pretoria's <u>Forensic Anthropology Research</u>. <u>Centre (FARC)</u> is setting up a comprehensive facility to help other departments in the <u>Faculty of Health Sciences</u> with the 3D-printing of replicas of bones and organs, such as brains, hearts and livers. This is being done to improve healthcare, research methods and the teaching of students.

'The advantages of three-dimensional printing includes visualisation and tactile opportunities, which are helpful in training students.'

Dr Alison Ridel of FARC, and Dr Alwyn Fortuin of the Department of Prosthodontics are collaborating on digital methods to reconstruct a face before and after tumour resection. She will assist the surgeon with the patient's 3D cone-beam computed tomography [CT] data before and after surgery, so that Dr Fortuin can visualise the surgical procedure and explain it to the patient.

Prof Ericka L'Abbé's team can also use a CT scan to make a 3D mesh of a patient's soft or hard tissue, which can be 3D-printed and used by the surgeon in their pre-operative planning.

'All teeth are different,' says Mr Marius Loots, first technical operator, 'Typical teeth are used to teach dental morphology, but this could differ from what the student has in front of them. By printing a standard set of teeth, it allows the student to master the typical structure, then apply the knowledge on real teeth.'

3D-prints of various classifications of injuries, such as gunshot wounds and blunt force trauma, saves the original skeletal element from destruction by use, but also avoids ethical debates.

We want to bring as many transdisciplinary and collaborative approaches across various faculties and disciplines to realise the benefits of advanced imaging technology within higher education institutions and the workplace,' Prof L'Abbé said.

'Learning 3D-imaging processing will also increase the workplace readiness of our students.'



1 A 3D-printed adult skull for use in teaching normal anatomy

Tel +27 (0)12 319 2394 | **Email** ericka.labbe@up.ac.za | **Read the full article here:** www.up.ac.za/alumni/news/post_3061971-university-of-pretoria-setting-up-facility-for-3d-printing-of-bone-and-organ-replicas

CARING FOR OUR CARERS: The 'Crazy Socks 4 Docs' initiative

By Robyn Vernall

Regardless of your age, good mental health and a positive wellbeing are essential if you want to remain motivated and enjoy social activities. However, everyone occasionally has a 'bad day', and that's okay!

There is a misconception (and often an expectation) that healthcare workers (HCWs) are always physically and mentally strong and healthy. The COVID-19 pandemic has pushed our HCWs to near 'breaking point' as they tirelessly supported patients without having the time to focus on their own mental health and wellness, which left many of them stressed, anxious and feeling overwhelmed.

On the 3rd of June 2022, the Faculty of Health Sciences encouraged everyone on Prinshof Campus to participate in the global Crazy Socks 4 Docs/Caring 4 Our Carers (CS4D/C4OC) initiative, which is held annually on the first Friday in June. This initiative aims to remove the stigma surrounding HCWs who have a mental illness, or who need professional help to effectively manage their mental wellness. The CS4D/C4OC initiative simply encourages people to visibly wear their craziest-looking, or mismatched pair of

socks to work or class on this day to show their support for HCWs who prioritise their mental wellness.

Thanks to the <u>iThemba Foundation</u>, a range of limited-edition funky socks was donated to tertiary medical education institutions across the country in support of the CS4D/C4OC initiative, which enabled medical fraternity staff and students to participate in this light-hearted event. Despite the cold weather, many students and staff from the FHS celebrated CS4D/C4OC, as can be seen in the photos.

The Faculty will continue to promote awareness of mental health issues and the excellent support services that are available to UP's staff and students, which include counselling/psychosocial support, student health services (including vaccinations) and study/career guidance.

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iThemba Foundation's CrazySocks4Docs iThemba Foundation's Caring4OurCarers

ithembafoundation.org.za/page/crazysocks4docs.php ithembafoundation.org.za/page/caring4ourcarers.php

Focusing on health and well-being, the psychology way

By Juanita Haug: Operational Coordinator, Department of Psychology

If you are intrigued by the workings of the human mind and enjoy finding out what makes people tick, you should consider studying psychology, which is the study of the fascinating field of human behaviour. As a psychology student you will be introduced to knowledge and research, and the application of psychology relevant to the challenges and opportunities of the 21st century.

We would like to welcome you to our vibrant Department, which is firmly rooted in Africa and provides excellent training in international trends and best practice—as our Head of Department, Prof Tharina Guse, explains in this video.

Reasons for studying Psychology

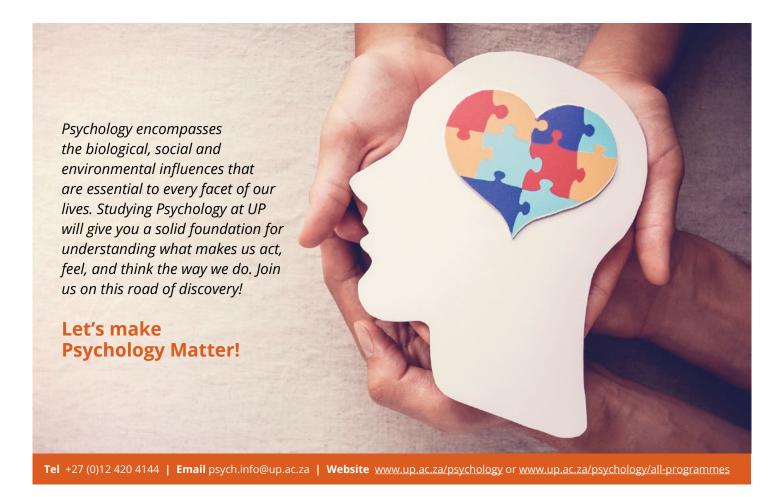
 Psychology is the study of factors that influence our health and well-being: Graduates will learn to appreciate the fact that any type of human connection requires care and effort. You will learn to better understand how psychological conditions are diagnosed and treated, and how mental health, happiness and well-being can be enhanced to ensure a healthier life.

- We need more mental health professionals:
 Our fast-moving lives often result
 in irritability, anxiety, depression or
 relationship problems. Psychologists
 understand the human mind and can
 assist us with addressing such problems
 and maintaining healthy relationships.
- We learn to understand human diversity:
 Through studying subfields of psychology, such as social and critical psychology, students learn to dismiss stereotyping and personal biases and work to discover and appreciate each person's inherent and unique differences.
- Knowledge of psychology improves your employability: It is an excellent elective module to combine with other modules in various degree programmes. You will learn key skills that employers seek, such as critical thinking, problem-solving, reasoning and research. Furthermore, studying psychology will broaden your understanding of human behaviour, which is crucial in both work and social settings.

Please refer to the infographic on the next page for more information and possible career opportunities.

Degrees with Psychology

- We offer elective Psychology modules at first-, second- and third-year levels. These can be taken as part of various undergraduate degrees in, for example, educational psychology, law, social work or engineering.
- Our BSocSci Honours in Psychology programme provides advanced academic and research training.
- Three professional master's degrees (MA Clinical, Counselling and Research Psych) that lead to registration as a psychologist with the Health Professions Council of South Africa (HPCSA) are offered in the fields of clinical, counselling and research psychology.
- The academic master's degree in psychology (MA Psych) will refine your research skills, but does not lead to registration as a psychologist with the HPCSA.
- Our doctorate in psychology (PhD Psych), which requires you to conduct research and submit a thesis, also does not lead to registration as a psychologist with the HPCSA.



Degree and possible career opportunities at the Department of Psychology

PART 1:

Undergraduate and honours degrees with possible career opportunities

Career opportunities

The completion of an undergraduate and/or honours degree in psychology contributes to building meaningful careers in areas where knowledge of psychology and research is valued, such as community and social development, health and welfare, education, marketing research, human resources, employee wellness, services for the disabled/ageing, non-government, government and non-profit organisations.

Undergraduate Psychology

Undergraduate psychology modules are taken with various degrees, for example:

BA, BA (Law), BEd, BSc (Human Physiology, Genetics and Psychology) or Engineering.

Second-year Psychology modules

SLK 210 and SLK 220

Continue with three of the four elective modules taken during your first year.

Work on a Plan B for Honours.

BSocSci Honours (Psychology)

This programme provides advanced academic and research training in Psychology with three core (compulsory) and various elective modules.

The application process consists of departmental selection and UP admission.

First-year Psychology modules

SLK 110 and 120

Choose four elective combinations:

eg Educational Psychology Anthropology/Archaeology Criminology, Sociology, Social Work, Philosophy or Languages.

Third-year Psychology modules

SLK 310 and SLK 320

Include a research module RES 320: Social Research (if you plan to apply for h<u>onours)</u>

Continue with two of your three second-year electives.

Work on a Plan B for honours.

PART 2:

Academic master's, professional master's and doctorate degrees with possible career opportunities

Career opportunities

Two career paths exist within the five degrees listed in Part 2:

Academic path: Career in research and teaching with specific focus (all five degrees).

Practitioner path: Career as clinical/counselling psychologist specialising in psychotherapy or counselling, and research related such as consulting as research psychologist.

Academic Master's in Psychology

Consists of an empirical research project that does not lead to registration as a psychologist with the HPCSA, but develops research skills.

The application process consists of departmental selection and UP admission.

Master's in Counselling Psychology

Training includes theory, practicals, completion of a mini-dissertation and an internship.

Leads to registration as a counselling psychologist with the HPCSA once all

The application process consists of departmental selection and UP admission.

Doctorate in Psychology

Requires research that contributes to the field of psychology and the completion of a thesis. Does not lead to registration as a psychologists with the HPCSA. Crucial for an academic career.

The application process consists of departmental selection and UP admission.

Master's in Clinical Psychology

Training includes theory, practicals, completion of a minidissertation, an internship and community service.

Leads to registration as a clinical psychologist with the HPCSA once al requirements have been met.

The application process consists of departmental selection and UP admission.

Master's in Research Psychology

Training includes theory, practicals, completion of a mini-dissertation and

Leads to registration as a research psychologist with the HPCSA once all requirements have been met.

The application process consists of departmental selection and UP admission.

Zak Claasen overcomes sight impairment challenges to obtain master's degree

By Mecayla Maseka

Zak Claassen, who is blind, recently received a master's degree in bioinformatics cum laude after successfully overcoming accessibility challenges during his postgraduate studies. He is now studying towards a PhD.

About his dissertation, which focused on antibiotic resistance in the environment, he said: 'I chose this research topic because antibiotic resistance is one of the most significant challenges in health care.' During his undergraduate studies he relied on screen reader software—a text-to-speech application—and digital scans and print-outs in Braille provided by UP's Disability Unit.

The library also ensured that his textbooks were ordered in electronic format, which allowed him to read with the help of a screen reader.

Zak, who grew up in Pretoria, had a fairly conventional upbringing, but it was not without challenges. His sight was affected by an accident that occurred during birth and deteriorated gradually until he become completely blind. Undertaking postgraduate studies was no simple task. 'It has been an interesting challenge,' he said, 'as most of the available programmes are designed without considering accessibility.'

Many tools involved something visual or did not work on his screen reader, with the result that he sometimes had to develop



Zak Claasen

new scripts to do what most students could easily do with other available tools.

He expressed his gratitude to his supervisor and co-supervisor, Prof Thulani Makhalanyane from UP and Dr Rian Pierneef from the Agricultural Research Council, without whose support he would not have been able to complete his degree.

Read the full article here: www.up.ac.za/faculty-of-natural-agricultural-sciences/news/post_3077689-upgraduation2022-graduate-overcomes-sight-impairment-challenges-to-obtain-masters

Website: www.up.ac.za/biochemistry-genetics-and-microbiology | Read more: #UPGraduation2022 stories

#WorldEnvironmentDay: Steer your career to study the environment

By Dr Bernard WT Coetzee

World Environment Day on 5 June unites all of humanity—we all are on this one planet together and it is the only home we have. It is the largest celebration of its kind and the United Nations' principal vehicle for encouraging awareness and action for the protection of the environment.

We need to take better care of the planet. Things are not going well for some of the species that share the earth with us and are facing extinction, for example rhinos and pangolins. The pressures on the earth are also increasing. Climate change is characterised by extreme weather events, such as the recent floods in KwaZulu-Natal.

We are overfishing the oceans, depleting freshwater reserves and using forests destructively and unsustainably. Plastics and other pollutants are now found in virtually every component of the environment and threaten everything we require for a prosperous life—like healthy food and crops, fresh water and clean air. The Department of Zoology and Entomology at the University of Pretoria is a world-renowned centre of excellence that advances the scientific study of what species do, and how they interact with the natural environment and an increasingly transformed planet.

We invite you to consider registering at the University of Pretoria for the BSc (Ecology), the BSc (Zoology) or the BSc (Entomology) programmes, all of which will expose you to the diversity of life on the planet and the pressures they face, and hopefully inspire you to make a positive impact to our unique Earth.

Website www.up.ac.za/zoology-entomology



God's Window, Blyde River Canyon (Photo credit: South African Tourism / Flickr)



Prof Adrian Shrader

Zoology professor and UP-students plant spekboom to combat climate change

By Mecayla Maseka

Prof Adrian Shrader and his third-year Conservation Ecology students have embarked on a novel campaign to raise awareness of both climate change and possible ways in which carbon dioxide in the atmosphere can be reduced by growing spekboom in non-recyclable coffee cups.

Spekboom is an indigenous plant that has surprisingly powerful properties.

'Increasing carbon dioxide levels in the atmosphere are resulting in climate change. Since spekboom has enormous carbon-storing capabilities, growing it is one way to try to reduce carbon dioxide', Prof Shrader said.

A thicket of spekboom is 10 times more effective per hectare at carbon fixing than the same area in a tropical rainforest. Moreover, each hectare of spekboom could capture 4.2 tons of carbon yearly.

Prof Shrader and his students plant spekboom in coffee cups that are mostly used only once. 'Coffee cups might seem recyclable because they are made of paper, but they actually contain a thin layer of polyethylene, which allows the cups to hold liquid but makes them non-recyclable,' he explained.

Asked about who was driving this project, he answered that the students were the ones who have mainly been bringing in cups and spekboom clippings, but that a few staff members have joined them in this endeayour.

Read the full article here: www.up.ac.za/faculty-of-natural-agricultural-sciences/news/post_3079001-up-prof-and-students-undertake-climate-change-campaign-with-help-of-spekboom

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Donor animals are saving other animals' lives

By Engela Duvenhage

Since the 1990s, the Onderstepoort Animal Blood Bank (OABB) has been saving the lives of dogs, cats, prized stud sheep, horses and cattle through blood transfusions.

The OABB is housed in the Onderstepoort Veterinary Academic Hospital (OVAH) of the University of Pretoria's Faculty of Veterinary Science. Blood from the OABB is used for the hospital's patients, but is sometimes sold to veterinary practices in Pretoria and beyond that experience blood stock shortages. Approximately 360 bags of canine blood are collected annually at the OABB's in-house facilities, where they are turned into blood products such as bags of packed red blood cells or fresh or frozen blood plasma.

'Over the past six years, the OABB has on average provided 705 bags of various types of canine blood products annually, mainly to dogs treated at the OVAH,' said OABB head Dr Yolandi Rautenbach, a senior lecturer and specialist in Veterinary Clinical Pathology in the Department of Companion Animal Clinical Studies. She added:

The scale of our service is only possible thanks to the willingness of many pet owners who volunteer their dogs and cats as blood donors. Most of them started doing so after a blood transfusion had saved the life of a much-loved pet.'

If you live in the vicinity of Onderstepoort and would like to find out whether your pet can become a blood donor, please send an email to Sr De Clercq at marizelle.declercq@up.ac.za



Bags of canine blood

Read the full article here: www.up.ac.za/faculty-of-veterinary-science/news/post_3080489-ups-onderstepoort-animal-blood-bank-how-donor-animals-are-saving-other-animal-lives



Or Yolandi Rautenbach (left) specialist veterinary clinical pathologist and head of the Faculty's Onderstepoort Animal Blood Bank (OABB) and Sr Marizelle de Clercq, first veterinary sister responsible for the OABB with Dakota, one of the Faculty's older blood donors.







Make today matter

About JuniorTukkie

The **JuniorTukkie programme** of the Department of Enrolment and Student Administration at the University of Pretoria has been established to assist learners from Grade 9 to 12 to make responsible study and career choices. The JuniorTukkie programme provides among others, a wide variety of services to learners such as first-hand information on study and career options, the development of leadership qualities, life skills, study skills, engagement in community projects, and many more.

Join the JuniorTukkie initiatives

Become a JuniorTukkie member:

Complete the membership form at www.up.ac.za/juniortukkie Become a JuniorTukkie.

Utilise the JuniorTukkie Online e-learning platform:

Register on the JuniorTukkie Online platform at <u>juniortukkie.online</u>.

Receive important notifications via the JuniorTukkie App:

Register on the JuniorTukkie App at juniortukkieapp.co.za.

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Social media

JuniorTukkie website: www.up.ac.za/juniortukkie JuniorTukkie Facebook: www.facebook.com/JuniorTukkieUP JuniorTukkie Instagram: www.instagram.com/juniortukkie JuniorTukkie App: juniortukkieapp.co.za

Produced by the Department of Enrolment and Student Administration in June 2022. Comments and queries can be directed to ssc@up.ac.za or Tel: +27 (0)12 420 3111.

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