

National Annual Technology Event (NATE) Programme

7 - 10 July 2025

Durban University of Technology – 41/43 M L Sultan Road, Greyville, Durban, 4001

Skills Development Training & Special Interest Group Meetings Monday 7 July 2025		
Time	Topic	Venue
9:00 – 12:00	Enterprise Architecture as a Service – EA Masterclass for HEI Chebelo Pele Consulting	Room – A1 - 1
9:00 – 12:00	Adobe Sign: Essentials for Digital Document Workflows Learning Curve	Room – A2 - 1
12:00 – 13:00	Lunch	
13:00 – 16:30	Enterprise Architecture Special Interest Group Meeting	Room – A1 - 1
13:00 – 14:00	Portfolio, Program & Project Management Special Interest Group Reboot Meeting	Room – A2 - 1
14:00 – 15:00	Skills Development Committee Meeting	2 nd floor boardroom
End of Day		

Tuesday, 8 July 2025

National Annual Technology Event
Plenary Room (Venue: Cane Growers Hall) – [STREAM LINK](#)

09:00 – 11:00	Enterprise Architecture Special Interest Group Meeting continued	Room – A1-1
Time	Topic	
09:00	NATE registration opens	
12:00 – 13:00	Lunch	
13:00	Welcome – Val Theron – CEO - HEITSA	
13:05	Opening address Professor Fulufhelo Nemavhola – DVC REI – Durban University of Technology	
13:15	Keynote - Assessing Digital Competence in Universities Dr Creswell Du Preez – ICT Advisor – Du Preez Consulting	
14:00	“Avengers Assemble!” Chantel Coetzee – Director ICT Architecture – Stellenbosch University	
14:20	Platinum Sponsor – Unifying Hardware, Software, and Learning <i>One Polygon at a Time</i> Jan Visser – Technical Specialist – ITTree Solutions & Usman Shaikh – Technical Service Manager - Faronics	
14:40	Group photo	
15:00	Refreshment break	
15:40	Gold Sponsor – ERP Modernisation – Using EA as a Service: Lessons from Industry Shannon Naidoo – Chief Technology Officer – Chebelo Pele	
15:55	Swallowed Whole: A story from the Cyber Front Lines Val Theron – CEO & Eldridge van der Westhuizen – Data Analytics & Special Projects Manager - HEITSA	
16:15	Presentation – Microsoft Lebohang Madise – Account Technology Strategist - Microsoft	
16:45	Closing remarks	
18:00	Dinner @ Hollywoodbets Kingsmead Cricket Stadium – 2 Kingsmead Way, Stamford Hill, Durban, 4000 Google maps link: https://maps.app.goo.gl/SAfmAy64NNWuQNBW7?q_st=am	

Wednesday, 9 July 2025

08:00 NATE registration opens

National Annual Technology Event Plenary Room - Venue: Cane Growers Hall – [STREAM LINK](#)

Time **Topic**

09:00 Welcome

09:05 **Keynote - Improving the Realisation Frequency of Digital Transformation Failure: Empirical Evidence in a Higher Education Institute in South Africa**
Dr Marlo De Swardt – Senior Director @ IT&N – Mangosuthu University of Technology

09:25 **CPUT Service Delivery Agreement**
Shahieda Bebe Hendricks – Learning and Development Manager, Human Capital – Cape Peninsula University of Technology

09:55 **Business Analysis & Systems Analysis in HE – challenges, success & recommendations**
Prichard Mooketsi – Senior System Analyst – Durban University of Technology

10:15 Gold Sponsor – Ndende Technologies

10:30 Refreshment break

11:10 Gold Sponsor – Silicon Overdrive

11:25 10-minute movement break

NOTE: Only Stream 1 will be broadcast

Stream 1
Venue: Cane Growers Hall

Stream 2
Venue: Room A1-1

Stream 3
Venue: Room A2-1

Topic: Cybersecurity

Topic: Learning Management

Topic: IT Service Management

11:35 **Presentation:** Rubrik

Exploring H3C Smart Campus Solutions – Marc van der Poll – Solution Architect – H3C Technologies Africa

Presentation – Sithabile Technology Services & Quantum

11:55	Using Microsoft Sentinel to enhance university cybersecurity. How does CPUT safeguard against data breaches with Microsoft Sentinel? – Ayanda Mente & Emeal De Koker – Senior Infrastructure Specialist and Senior Tech: It Infrastructure Support – Cape Peninsula University of Technology	The use of technology for effective evaluation - Starlen Sass – Systems Engineer - University of the Witwatersrand & Kevin Williams – Managing Executive - LRMG	Providing value - Enterprise Service Management capabilities in a higher education environment – Brian Mathato – IT Service Management Coordinator – University of Pretoria
12:15	Enabling Secure, Compliant University-Wide MacOS Device Control – Clifford Steyn and Tintswalo Mabasa – Team Leader: Campus Support and Manager: End-user Computing & Service Management – University of Pretoria	Development of predictive models for student success view from data analytics – Ntethelelo Mgenge & Trymore Ncube – Durban University of Technology	Enhancing the Student Experience: A University of Limpopo ICT Multi-Faceted Approach to Support, Security and Modernization – Osca Sibede – Manager ICT: Students Computing Support Services - University of Limpopo
12:45	Lunch		
Stream 1 Venue: Cane Growers Hall		Stream 2 Venue: Room A1-1	Stream 3 Venue: Room A2-1
Topic: Cybersecurity		Topic: Various	Topic: Various
13:55	Presentation – Layer 7 Networks	Dell's TechDirect Platform – Prinesh Govender – Lead IT Support Technician, Cuan Wessels – IT Support Technician (Hardware) – Rhodes University & Dell Representative	Presentation – MBCOM
14:15	Data Security Awareness - Lazarus Marakalla & Lee April – Service Desk Analysts – University of Pretoria	Mitigating AV Technology challenges @UP – Ngqabutho Zulu & Ndwambi Nengundza – AV Technicians - University of Pretoria	Unisa Cash Advance Laptops (CAL) – Thembinkosi Mdluli, Leon Govender, Thabang Kabani, Bafana Nkosi, Barbara Sehlabo & Tshifhiwa Mutshekwane – Desktop Technicians – University of South Africa

14:35	NIST Framework Implementation – Frans Roodt - IT Technician and Cybersecurity Consultant – North-West University	CPUT Office Extender: Extending the Campus Network to Your Home -Phola Qwalana – Network Engineer - Cape Peninsula University of Technology	Move from legacy Electronic Document Management system to SharePoint 365 Replacement of Student Relationship Management systems to an Integrated Query Management solution – Niezaam Lombard – Acting Deputy Director: ECM Systems – University of South Africa
14:55	A View Through the Lens of the AAA Triad: How Encryption, Password Policies, and OneDrive Play a Pivotal Role in Data Protection and Accessibility within the University's Ecosystem – Molemo Khabane & Andile Nene – IT Support Technicians – University of Pretoria	IT Asset Management using Snipe-IT – Tankiso Thebe – Full Stack Software Engineer – Vaal University of Technology	ITSM/ITAM implementation lesson learned – Ron Prakaschandra & Nerina Reddy – Durban University of Technology
15:25	Refreshment break		
16:05	Log Management and Analysis with Wazuh – Chris Ejike – System Analyst: Security & Governance – Vaal University of Technology	Presentation – Musa Mahlaba – Durban University of Technology	Reimagining CBT: The Smart Lab Revolution in Digital Assessment - Hlekane Ngobeni – IT Laboratory Administrator & Vuyiswa Hoko – Assistant IT Lab Administrator – University of Pretoria
16:25	Imaging using Fog Project – Tankiso Thebe – Full Stack Software Engineer & Chris Ejike – System Analyst: Security & Governance – Vaal University of Technology	Free slot	Reimaging CBT: The Smart Lab Revolution in Digital Assessment continued
16:45	Day end		

Thursday 10 July 2025	
National Annual Technology Event	
Plenary Room - Venue: Cane Growers Hall – STREAM LINK	
Time	Topic
9:00	Welcome
9:05	SANReN CSIRT: Cybersecurity Services for the SANReN Community Kgawadi Matenche – Senior Cybersecurity Specialist - The Council for Scientific and Industrial Research (CSIR)
9:25	Presentation - Galeboe Mogotsi – CISO – University of the Witwatersrand
9:45	Presentation – Timothy Carr – University of Cape Town
10:05	Driving change in collaboration and meeting culture using Decisions and Microsoft 365 tools – Andile Yona – Business Analyst – North-West University
10:25	Refreshment break
11:05	SIG Feedback
11:20	Leadership Institute Presentation
11:30	Award Ceremony
11:55	Competition Winners
12:05	Closing remarks Val Theron – CEO – HEITSA
12:15	Takeaway lunch

With special thanks to our sponsors!

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Abstracts

Chantel Coetzee – Stellenbosch University	EA is not this abstract framework or standard implemented and managed by elite individuals. Nope, it is something you do every day, without realising it. Let us tell you how you are doing architecture incognito, and how you can become part of the beautiful art of Enterprise Architecture.
Shannon Naidoo – Chebelo Pele Consulting	Modernising any part of a large ERP investment is not a trivial matter. While they are complex decisions with multiple options for execution, Enterprise Architecture as a Service can offer a means to navigate, plan and execute this journey while avoiding some of the pitfalls. We at Chebelopele Consulting have been involved in ERP selection, modernisation and new builds. From Oracle, SAP, Microsoft and some of the more niche offerings in industry, the lessons are similar. We will touch on new technology trends, both in adoption and applicability - generative AI, machine learning and platform thinking.
Marc van der Poll – H3C Technologies Africa	H3C has assisted many higher education institutions in their digital transformation journeys. See how to leverage H3C's technology and experience in your digital transformation journey.
Clifford Steyn & Tinswalo Mabaso – University of Pretoria	Enabling Secure, Compliant University-Wide MacOS Device Control via Intune
Osca Sibede – University of Limpopo	In a rapidly evolving digital higher education environment, institutions must adopt integrated, student-focused ICT strategies to enhance access, security, and academic success. This presentation outlines the University of Limpopo's multi-faceted approach to empowering students through technology, aligned with the institution's digital transformation objectives and national sector trends. Key focus areas include the recent student email migration for improved collaboration and continuity; the ongoing desktop refresh initiative aimed at modernizing computer lab infrastructure; and a comprehensive student IT support model encompassing walk-in centres, call centre operations, and a self-service platform.
Ayanda Mente & Emeal De Koker – Cape Peninsula University of Technology	In light of the escalating complexity and frequency of cyber threats within higher education, the Cape Peninsula University of Technology (CPUT) has implemented Microsoft Sentinel, a cloud-native Security Information and Event Management (SIEM) and Security Orchestration Automated Response (SOAR) platform. This presentation examines how CPUT utilizes Sentinel to centralize the monitoring of security events, employ machine learning-driven threat detection, and automate incident response workflows. The integration of Sentinel with existing infrastructure facilitates proactive anomaly detection, enhances compliance oversight, and supports the university's overarching cybersecurity strategy. This underscores the critical role of advanced SIEM solutions in enhancing institutional resilience against data breaches and various security incidents in academic contexts.
Brian Mathato – University of Pretoria	How the Enterprise Service Management capabilities are adding value in a higher education environment (The UP experience...)
Tankiso Thebe – Vaal University of Technology	Snipe-IT is an open-source asset management system designed to help organizations track, manage, and maintain their assets, including hardware, software, and other resources. With features like customizable fields, automated depreciation, and user-friendly interface, Snipe-IT provides an

	efficient and cost-effective solution for asset management, enabling businesses to optimize their inventory and reduce costs.
Hlekane Ngobeni & Vuyiswa Hoko – University of Pretoria	This presentation examines the inherent limitations of current Computer-Based Testing (CBT) setups, which frequently suffer from rigid infrastructure and tightly controlled, centralised systems. These characteristics often fall short of meeting the contemporary educational landscape's demand for assessment solutions that are both adaptable and centred on the learner's experience. We present a transformative vision for CBT laboratories, conceiving them instead as dynamic, intricately connected environments achieved through the deliberate integration of cutting-edge technologies. Specifically, our investigation probes the collective capacities of the Internet of Things (IoT) to foster greater automation, Bring Your Own Device (BYOD) approaches to enhance access and reduce expenses, and virtualization to facilitate scalable, cloud-delivered testing. Further enriching this paradigm shift is the strategic incorporation of Artificial Intelligence (AI) for advanced proctoring methods and as a tool for providing personalised, inclusive education assistance, which promises to refine the integrity and equity of the assessment process. The core aim is to ascertain how these innovations can synergistically improve the efficiency, expand the reach, and enrich the overall quality of digital assessments. Furthermore, the presentation addresses the attendant challenges, including concerns about security, the necessity for standardisation, and broader issues of digital equity. By thoughtfully combining advanced technological solutions with existing educational frameworks, this work proposes a progressive blueprint for CBT implementation that resonates with evolving pedagogical principles and technological shifts.
Andile Yona – North-West University	The presentation showcases how the institution developed a custom application to streamline the creation of Microsoft Teams in line with the university's organisational structure. This initiative has significantly reduced team duplication, enhanced continuity, and improved overall management of team sites. We will also demonstrate how we used the Decisions tool to run better, more organised online meetings that everyone can take part in. Both solutions are embedded within the Microsoft 365 ecosystem and support our move to a more user-centric and digitally empowered workplace environment.
Frans Roodt – North-West University	Implementing the NIST Framework Identify, Protect, Detect, Respond, Recover, Governance
Lazarus Marakalla & Lee April – University of Pretoria	Data security awareness programs are designed to foster a security-conscious culture by informing individuals about common threats such as phishing, social engineering, and poor password practices. These initiatives emphasize the implementation of best practices, compliance with data protection regulations, and the responsible use of technology.
Thembinkosi Mdluli, Leon Govender, Thabang Kabani, Bafana Nkosi, Barbara Sehlabo & Tshifhiwa Mutshekwane – University of South Africa	How Unisa manages Tools of Trade by providing users with cash to purchase a minimum-specification laptop.
Molemo Khabane & Andile Nene – University of Pretoria	In an era where data security and seamless accessibility are critical to institutional success, universities face the complex challenge of balancing protection with productivity. This presentation explores the pivotal role of the AAA triad - Authentication, Authorization, and Accounting in shaping effective data protection strategies within a university's digital ecosystem. Focusing on three core components: encryption protocols, password policies, and the integration of Microsoft's OneDrive, this study analyses how these elements contribute to a secure and accessible environment for students, faculty, and administrative staff. By examining the interplay between strong authentication mechanisms, robust authorisation controls, and meticulous accounting practices, the paper highlights how encryption safeguards data confidentiality, password policies mitigate unauthorized access, and OneDrive enhances secure data availability and collaboration.
Ndwambi Nengudza & Ngqabutho Zulu – University of Pretoria	AV Technology challenges (Especially within lecture hall)Challenge faced by AV technicians :: Technology : Network: Human: Power
Niezaam Lombard – University of South Africa	Move from legacy Electronic Document Management system to SharePoint 365Replacement of Student Relationship Management systems to an Integrated Query Management solution
Chris Ejike – Vaal University of Technology	An open-source security monitoring and incident response platform that provides real-time threat detection, vulnerability assessment, and compliance monitoring. It integrates seamlessly with various data sources, including logs, network traffic, and system calls, to detect and respond to security threats.
Phola Qwalana – Cape Peninsula University of	Extending the work environment to the home with office extend technologies.

Technology	
Tankiso Thebe & Chris Ejike – Vaal University of Technology	Fog Project is an open-source network booting and imaging solution that enables administrators to deploy, manage, and maintain large numbers of computers across a network. With features like automated imaging, snap-ins, and group management, Fog Project streamlines IT operations, reducing the time and effort required to deploy and maintain computer systems.
Prinesh Govender & Cuan Wessels – Rhodes University	Dell TechDirect is an online self-service portal and suite of tools from Dell Technologies designed to streamline and optimize IT support.