

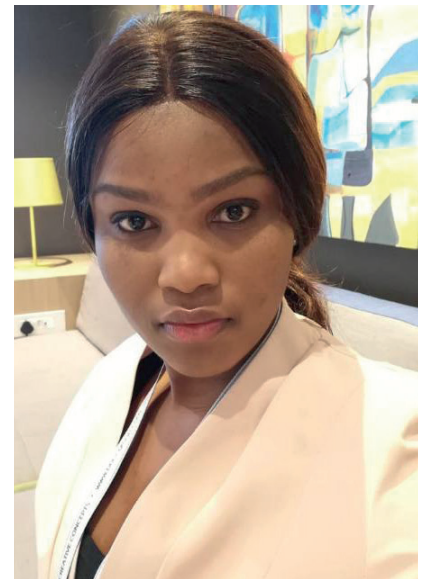
POWER DIGEST

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DUT FEMALE LECTURER AWARDED A JAPANESE GOVERNMENT SCHOLARSHIP TO STUDY PH.D. IN ELECTRICAL ENGINEERING

The Department of Electrical Power Engineering celebrates with Miss Sindisiwe Cindy Malanda on the award of a full Japanese government scholarship to study for the doctor of philosophy (Ph.D.) degree at Tokyokaiyo University, Japan. She is the first recipient of this award, which is a product of the DUT (South Africa) and TUMSAT (Japan) collaboration to build capacity at DUT by training and developing young South African academic staff to obtain Ph.D. qualifications in Japan. This technical cooperation and human capacity development program was initiated by Professor Innocent Ewaen Davidson, the Head of Department of Electrical Power Engineering, and Professor Mitsuru Izumi, Emeritus Professor at TUMSAT, Office of Liaison and Cooperative Research (OLCR), National University Corporation, Tokyo University of Marine Science and Technology (TUMSAT), now President, National Institute of Technology (NIT), Toba College of Maritime and Technology, Japan. This technical cooperation was fully supported by the Offices of the Executive Dean of Engineering and the Built Environment, Deputy Vice-Chancellor, Research, Innovation and Engagement (DVC-RIE), Deputy Vice-Chancellor Teaching and Learning (DVC-TL), and Research and Post Graduate Support (RPS). Speaking about the award, Ms Malanda thanked all the DUT Executives and Prof Izumi for the unique opportunity to enable her to achieve world-class international training in a cutting-edge field and area in Electrical Engineering over the next three years. Furthermore, she thanked her colleagues and peers in the Department for their support.



Ms Malanda expressed her gratitude to the Executive Dean of FEBE, Professor Twala, for supporting the application, and giving it prompt attention and attending to her documents. She expressed her gratitude to TUMSAT Professors Hiroyasu Kifune, Mitsuru Izumi, and Dr Shohei Komeda for their kind assistance in making the Japanese Government Scholarship a reality. Most significantly, Ms Malanda expressed her gratitude to her DUT Supervisor, Prof Innocent Ewaen Davidson, for his assistance throughout her journey. "I am pleased to have been chosen as the recipient of a Japanese government scholarship. Thank you for your generosity; this scholarship will open the door to a brighter future and play an essential role in shaping me into a successful person", she said. The candidate also claimed that this scholarship would not have been possible without the support and help provided by her DUT Supervisor. She appreciated his dedication and commitment to human development and the advancement of "Women in Engineering." I am one of the fortunate students who got an opportunity to be supervised and mentored by you", the candidate said. Prof Davidson supervised her BTech and MEng degree projects at DUT. The DVC Research, Innovation and Engagements, Prof Moyo congratulated Miss Malanda and hoped she would work hard and make DUT proud!. She also commended Prof Davidson for advancing women in engineering and training the next generation of engineers through this partnership with Japan and through the DSI funded Space Science and Technology programme that saw 1 Doctoral and 3 Masters students graduate in 2021. She further acknowledged Prof Izumi for his commitment to the partnership. "Japan is one of the best places to do Engineering, and I am sure Miss Malanda will flourish and contribute to the training of future engineers in South Africa apart from learning and enjoying Japanese culture".

ESKOM DISTRIBUTION VISIT TO DUT

The General Manager, Eskom Distribution, accompanied by two Eskom employees, were hosted by the Department of Electrical Power Engineering, and gave a presentation. The presentation gave details on the progress of the Eskom Power Plant Engineering Institutes (EPPEI) program, and an invitation to DUT for collaboration. EPPEI was established in 2012 and offers opportunities for research and post-graduate training and education in the electricity industry. The program initially focussed on mitigating the

issues associated with electrical power generation, but now expanded across the industry value chain, including the distribution and retail business. This is a remarkable opportunity for DUT and the Department as the Research Leader, is currently developing the Smart Grid Research Centre, into a Centre of Excellence in the Faculty of Engineering and the Built Environment. "Smart Grid" offers the future solutions for the distribution of electrical power.



From left to right:

Mr. Azwi Mamanyuha (GM) , Ms. Ouma Bosaletsi (EPPEI Coordinator),
Prof IE Davidson (HOD)

Photographer: Miss Nomusa Zakuza

RESEARCH

[1] Tanwar, S., Gupta, S.R., Patel, M.M., Shukla, A., Sharma, G, and Davidson, I.E., (2021) "Blockchain and AI-empowered Social Distancing Scheme to Combat COVID-19 Situations." IEEE Access, 9: 129830 - 129840, doi: 10.1109/ACCESS.2021.3114098.

[2] Tanwar, S., Patel, N.P., Patel, S.N., Patel, J.R., Sharma, G., and Davidson, I.E., (2021) "Deep Learning-based Cryptocurrency Price Prediction Scheme with Inter-dependent Relations," IEEE Access, 9, 138633 – 138646, doi: 10.1109/ACCESS.2021.3117848.

EDITORS



Ms. Namhla Mtukushe
namhlam@dut.ac.za



Ms Nomusa Zakuza
nomusazl@dut.ac.za