

Brand-new qualification in Mechatronic Engineering for the NWU

Issued by [North-West University \(NWU\)](#)

6 May 2020

The Faculty of Engineering at the North-West University (NWU) is proud to announce that we will be adding a brand-new engineering qualification to our existing range of programmes. The Bachelor of Mechatronic Engineering programme has been approved by the Engineering Council of South Africa (ECSA) and will allow graduates to compete internationally on the world stage. This programme will be offered as from 2021.



Mechatronic Labs

What is mechatronic engineering?

Mechatronic engineering, which is also referred to as mechatronics, is a multidisciplinary branch of engineering that focuses on the engineering of electrical as well as mechanical systems, and also includes a combination of robotics, electronics, computer, telecommunications, systems, control, and product engineering.

As technology advances over time, various subfields of engineering have succeeded in both adapting and multiplying. The intention of mechatronics is to produce a design solution that unifies each of these various subfields. Originally, the field of mechatronics was intended to be nothing more than a combination of mechanics and electronics, hence the name being a portmanteau of mechanics and electronics. However, as the complexity of technical systems continued to evolve, the definition was broadened to include more technical areas.

What we offer

At the NWU we produce engineering graduates that change the world. Our mechatronics programme aims to promote this ideal by providing much-needed skills in the industrial automation space. Our programme is unique in that it allows students to focus on projects in the community that develops medical devices (such as intelligent prosthetics) or products in the low-cost agri-processing domain. The latter is especially important to ensure a sustainable modern society for everyone.



Siemens S7-1200 conveyor trainer

Our facilities and partners

Our collaboration with industrial partners such as Siemens provides our students with hands-on access to modern process-control equipment in a brand-new industrial automation laboratory. The NWU is also uniquely positioned to equip graduates with simulation software (Siemens NX and MCD) and expertise to virtually design and commission designs.

In addition, the Industrial Automation Training Centre (IATC) in the faculty allows students to obtain a complementary bundle of industry certifications at highly reduced rates. This improves the employability of graduates significantly.

Mechatronic engineering at the NWU is not just about electronics, measurement, control, embedded systems and mechanisms. It is a holistic approach that combines expert domain knowledge and the latest technology to solve problems, now and in the years to come.

View this informative video for more about the NWU's programme in mechatronic engineering:

<https://www.youtube.com/watch?v=1J8xYCmSgtI>.

Should you wish to enquire about this exciting new opportunity, feel free to contact us:

Prof. George van Schoor
School of Electrical, Electronic and Computer Engineering
Faculty of Engineering
george.vanschoor@nwu.ac.za

- **Former world and national Morganti Ju-Jitsu champion bags a PhD** 23 May 2024
- **GoAllOut student chapter breaks Guinness World Record** 17 May 2024
- **Seven Eagles to soar at the 2024 Olympic Games in France** 15 May 2024
- **Child speech database research project attracts international attention** 7 May 2024
- **Siya celebrates Rassie** 7 May 2024

North-West University (NWU)



The North-West University (NWU) is one of South Africa's top five universities; that offers superior academic excellence, cutting-edge research and innovation and teaching and learning. It all starts here.

[Profile](#) | [News](#) | [Contact](#) | [Twitter](#) | [Facebook](#) | [RSS Feed](#)

For more, visit: <https://www.bizcommunity.com>