



By obtaining this qualification at the North-West University (NWU) you will accelerate your career and improve your effectiveness and efficiency in your workplace.

The North-West University:



is one of a few worldwide universities that has a strong contact-, as well as a distance learning mode of delivery;



is an internationally recognised university with an international student body from at least **68 countries**;



is the third largest university in South Africa with more than **54 000 students**;



has some of the best academic support programmes in Africa resulting in a **success rate of 92,9%** by our students; and



is one of the best tertiary education institutions for education towards a professional career according to the **2022** rankings by the **Times Higher Education (THE) World Rankings**.

Who is this programme for?

This programme supplies students with all the theoretical knowledge required by the NWU's research-based Master of Science in Engineering Sciences with Nuclear Engineering.

The field of Nuclear Engineering comprises the technical aspects, such as nuclear reactor design, and the nuclear technology management aspects, such as nuclear project management, nuclear policy and financial management.

The present programme focuses on the theoretical knowledge underlying the said technical aspects, especially nuclear reactor design, while another programme will focus on the technology management aspects.

This programme provides learners with:

- a broader and more in-depth knowledge of Nuclear Engineering sciences;
- advanced education in the field of Nuclear Engineering;

- problem-solving ability;
- integration of knowledge across fields; and
- the ability to execute a project in the field of Nuclear Engineering and to communicate the results orally and in writing.

Method of Delivery

The modules are presented by means of a distance contact method. The e-learning platform e-Fundi, with an interactive site for each module, enables students to participate in well-structured self-study learning activities prior to attending the contact lecture session.

Although this is a distance programme, there are 2 practical modules that need to be attended face-to-face on the Potchefstroom Campuses. These face-to-face modules are Reactor Analysis (NUCI 577) and Nuclear Engineering II (NUCI 578).

Please take note of this before you decide to register. The rest of the modules will be conducted fully online with live, and pre-recorded lecture sessions.

Cost and Financial Assistance

All fees are annually adapted. Study fees are based on modules and students pay per module and not for the course as a whole: <https://wfp-lb1-rh7.nwu.ac.za/study-fee-cost-estimation/insecure>.

Contact pc-studyfees@nwu.ac.za to obtain a quotation.

Postgraduate
Diploma in Nuclear
Science and Technology

Delivered by the North-West University.









It all starts here®



Programme Specifications for the Postgraduate Diploma in Nuclear Science and Technology with Nuclear Technology Management

Programme of study	Duration	Curriculum outcomes	Admission requirements
Postgraduate Diploma in Nuclear Science and Technology <i>Programme Code: 7DC D01</i>	Min 1 year Max 2 years	On completion of the qualification, the student should be able to demonstrate: <ul style="list-style-type: none"> • A comprehensive and systematic knowledge base in nuclear engineering, as well as an in-depth knowledge of nuclear physics and thermal-fluid sciences. • A coherent and critical understanding of the principles and theories of nuclear engineering; an ability to critique current research and advanced scholarship in an area of nuclear engineering; an ability to make sound theoretical judgements based on evidence; and an ability to think epistemologically (i.e., from a sound knowledge framework). • An ability to identify, analyse and deal with complex and/or real-world problems and issues using evidence-based solutions and theory-driven arguments in the field of nuclear engineering. • Efficient and effective information retrieval and processing skills; the identification, critical analysis, synthesis and independent evaluation of quantitative and/or qualitative data; and an ability to conduct research. • An ability to present and communicate academic professional work effectively. 	Three-year BSc degree (with Mathematics or Physics, at least at second year level); or BTech (Engineering).

Contact Information

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Disclaimer: Study information is subject to change and is a summary of the general fields of study. This information was compiled for introduction purposes and the North-West University accepts no liability for inaccuracies that may occur in this guide.