NewBridge GRADUATE INSTITUTE

SCHOOL OF ENGINEERING, IT & DESIGN

Diploma in Electronic Engineering

Design technology. Solve problems. Power innovation.

Diploma | 3 Years Full-Time | NQF Level 6 | 360 Credits | SAQA ID 63749

WHAT IS THIS PROGRAMME?

The Diploma in Electronic Engineering develops the technical and practical skills needed to design, build and maintain the technologies that power modern industries.

You'll gain experience in electronics, software engineering, automation and communication systems while building a strong foundation for a future in engineering and technology.

WHY CHOOSE THIS PROGRAMME?

1. Build practical engineering skills through hands-on projects, laboratories and applied learning.
2. Develop expertise across electronics, software engineering, automation and emerging technologies.
3. Learn how modern systems are designed, managed and improved to solve real-world challenges.
4. Prepare for career opportunities in industries shaped by innovation, automation and digital transformation

GRADUATE WITH PROOF

Graduate with proof, not just a qualification, through NGI Accelerate, which enables you to build additional certifications and a stronger professional profile while you study.

CAREER OPPORTUNITIES

- Electronic Engineering Technician
- Software Developer
- Firmware Developer
- Electronic Systems Designer
- Electronic Maintenance Technician
- Renewable Energy Technician
- Project Manager
- Entrepreneur

IS THIS PROGRAMME RIGHT FOR YOU?

- Passionate about technology and innovation
- Enjoy solving technical problems
- Curious about electronic systems and engineering
- Thrive in practical, hands-on learning
- Interested in engineering, automation or software development

NewBridge Graduate Institute is registered with the Department of Higher Education and Training as a private higher education institution under the Higher Education Act No. 101 of 1997. Registration no: 2001/HE07/003

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Apply online:
www.ngi.ac.za

Speak to an advisor

Visit a campus

Scan QR code to apply

KEY AREAS OF STUDY

YEAR 1

- Electrical Engineering
- Engineering Mathematics
- Analogue Electronics
- Software Engineering
- Digital Electronics
- Engineering Science
- Practical and Professional Skills for Industry

YEAR 2

- Electrical Engineering
- Engineering Mathematics
- Analogue Electronics
- Software Engineering
- Digital Electronics
- Computer Networks
- Electronic Communication
- Modelling, Simulation and Control Systems

YEAR 3

- Software Engineering
- Digital Electronics
- Project Management
- Power Electronics and PCB Design
- Work Integrated Learning

SKILLS YOU'LL DEVELOP

- Electronic Systems Design
- Circuit Analysis and Troubleshooting
- Programming and Automation
- Technical Problem-Solving
- Testing and Diagnostic Skills
- Project Management
- Professional and Teamwork Skills

ADMISSION REQUIREMENTS

NSC with a Diploma Pass and Mathematics, or at least 50% in Mathematical Literacy or Technical Mathematics

OR

NCV with Diploma admission

OR

International applicants require a SAQA Level 4 evaluation

Alternative admission pathways are available.

BAC Accredited
Recognised for internationally benchmarked quality.

NewBridge Graduate Institute is proud to be accredited by the British Accreditation Council (BAC), an internationally recognised independent body that accredits institutions meeting rigorous global standards of academic and operational excellence. This accreditation confirms NGI's commitment to delivering quality education and fostering a supportive learning environment.

For students and parents, this means the assurance of studying at a trusted, globally recognised institution. BAC accreditation affirms NGI's commitment to international standards of quality, strengthening confidence in the education students receive and supporting pathways to further study and career success locally and internationally.

This also aligns with NGI's existing positioning of BAC as an international accreditation that provides additional assurance of ***quality, governance and academic standards.***