Start your future career in Electrical Engineering
National Diploma in Engineering (Electrical)

Are you fascinated by how things work?
As an electrical engineer you will be the driving force behind the technological age.
You will apply proven techniques and procedures to the solution of practical engineering problems and carry a range of technical responsibilities.

YOUR SUBJECTS
FIRST YEAR
• Communication Skills 1
• Computer Skills 1
• Digital Systems 1
• Electrical Engineering 1
• Electronics 1
• Mathematics 1
• Projects 1
• Digital Systems 2
• Electrical Engineering 2
• Electronics 2
• Mathematics 2
• * Programming 1

SECOND YEAR
Choose from the following streams. See subjects on our website.
• Control Systems
• Electronic communication
• Industrial Electronics
• Power Electronics
• Power Systems

THIRD YEAR
• Electrical Engineering Practice 1
• Electrical Engineering Practice 2

Your on-the-job training
You must obtain 10 full academic credits to access the experiential learning programme. Limited placement opportunities are available via our Work Integrate Learning coordinators but it remains your responsibility to your own employment.

WHAT YOU NEED
Minimum Admission Requirements

National Senior Certificate (NSC/ Grade 12)
• English (4)
• Mathematics (4)
• Physical Science (4)

Recommended, one of the following:
• Computer Applications Technology (4)
• Information Technology (4)
• Electrical Technology (4)

Matric Certificate (Pre-2009)/ National Senior Certificate (Grade 12) with:
• Mathematics, N4 (60%)
• Electrical Systems, N4 (60%)
• Electrotechnics, N4 (60%)
• Digital Electronics, N4 (60%)

National Senior Certificate Vocational (NCV)
• English (60 – 69%) (5)
• Mathematics (60 – 69%) (5)

At least three of the following:
• Physical Science (60%) (3)
• Electrical Principles & Practice (60%) (3)
• Electronic Control & Digital Electronics (60%) (3)
• Electronic Workmanship (60%) (3)

The department utilises an Admission Point Score (APS) as selection criteria once your minimum admission requirements are satisfied. You also have to score a minimum of 30 on the APS.

HOW TO APPLY
MANUAL APPLICATIONS
Do you qualify to apply manually?
Please note: a non-refundable application fee will be applicable. Manual applications are only available to the following persons:
• Applicants applying for RPL (Recognition of Prior Learning)
• Non-South African citizens
• Suitable candidates with international qualifications
• Suitable candidates with recognition of refugee status

Recommended, one of the following:
• Computer Applications Technology (4)
• Information Technology (4)
• Electrical Technology (4)

Matric Certificate (Pre-2009)/ National Senior Certificate (Grade 12) with:
• Mathematics, N4 (60%)
• Electrical Systems, N4 (60%)
• Electrotechnics, N4 (60%)
• Digital Electronics, N4 (60%)

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Future studies
BTech: Engineering (Electrical)
MTech: Engineering (Electrical)
*MEng: Engineering (Electrical)
*BEng: Engineering (Electrical)

*MEng is optional for current students and compulsory for first time registrations as of 2016.
*BEng is optional for current students and compulsory for first time registrations as of 2016.

Future industries
Manufacturing, Commissioning and Maintenance, Design and development, Consulting, Sales, Self-employment

Future career prospects
MTN, Eskom, Telkom, Cell C, Siemens, Vodacom, Telkom, Transnet, Grand West Casino
SAFEX, Soka Industry, South African aerospace, service, South Africa’s embassies, Air traffic and navigation services, SpoorNet