



FACT SHEET

Electrical Engineering
N4-N6
(Distance Learning)



Private
Tertiary
Education

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Electrical Engineering N4-N6

FACULTY OF ENGINEERING

NATED Studies: 2025/2026 Fact Sheet

Programme Title	SAQA ID	Level	NQF
National N Diploma: Electrical Engineering SAQA ID: 90674	66881	N4	5
	66960	N5	5
	67005	N6	5

Programme description

The Electrical Engineering programme is the study and application of electricity, electronics, and electromagnetism. Electrical Engineers study the uses of electricity and equipment for power generation and distribution. This dynamic field involves the design of electronic circuits from basic household equipment to complex systems such as aircraft autopilots and state-of-the-art computers. Microelectronics, the manufacture and repair of products like computers, microwaves, and control systems, also falls within the field of Electrical Engineering.

Electrical Engineering provides the knowledge, skills, and management experience needed for technical and professional careers in instrumentation and control, technical sales and field services, electronics manufacturing, and electrical power operations. Electrical Engineering involves the design, study, development, and manufacture of various electrical and electronic systems.

Admission requirements

- ▶ N3 National Certificate
- ▶ Grade 12 (Pure Mathematics/Technical Mathematics & Physical Sciences/Technical Sciences)
- ▶ NCV Level 4
- ▶ Recognition of Prior Learning (RPL)

Mode of study | Duration

Distance learning is a mode of education that allows students to study remotely without needing to attend physical classes on a daily basis. It provides flexibility and accessibility, enabling learners to access course materials, complete assignments, and engage with instructors online or through blended methods. Distance learning is ideal for individuals who may be working, have personal commitments, or live far from an educational institution. With the support of digital tools, academic resources and periodic tutorials or consultations, students can progress through their studies at their own pace while still receiving structured guidance and support from qualified facilitators *(while adhering to assessment submission deadlines)*.

Distance Learning involves independent self-paced learning with access to digital resources, study guides, recordings, and a monthly scheduled virtual session with a facilitator.

(1 Online Saturday session per month)

2 intakes per year

Option 1: Distance Learning (Self-Study): 36 Months

This is a self-study programme. However, students will be privileged to attend tutorial classes twice a month from 9 am – 4 pm (Optional) on a weekend

First Year 1st Semester Subjects:

- ▶ Engineering Science N4
- ▶ Electrotechnics N4

First Year 2nd Semester Subjects:

- ▶ Engineering Mathematics N4
- ▶ Industrial Electronics N4

Second Year 1st Semester Subjects:

- ▶ Power Machines N5
- ▶ Electrotechnics N5

Second Year 2nd Semester Subjects:

- ▶ Engineering Mathematics N5
- ▶ Industrial Electronics N5

Third Year 1st Semester Subjects:

- ▶ Power Machines N6
- ▶ Electrotechnics N6

Third Year 2nd Semester Subjects:

- ▶ Engineering Mathematics N6
- ▶ Industrial Electronics N6

Option 2: Distance Learning (Self-Study): 24 Months

In the event that you have the ability and dedication to manage a higher study load, you can enroll for a maximum of three subjects per semester. In this way, fresh school leavers accustomed to full-time learning will find this beneficial in completing their qualification on time.

First Year 1st Semester Subjects:

- ▶ EMG411: Engineering Mathematics N4
- ▶ ENS411: Engineering Science N4
- ▶ IEE411: Industrial Electronics N4

First Year 2nd Semester Subjects:

- ▶ EET411: Electrotechnics N4
- ▶ EMG511: Engineering Mathematics N5
- ▶ POM511: Power Machines N5

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Second Year 1st Semester Subjects:

- ▶ IEE511: Industrial Electronics N5
- ▶ EET511: Electrotechnics N5
- ▶ EMG611: Engineering Mathematics N6

Second Year 2nd Semester Subjects:

- ▶ POM611: Power Machines N6
- ▶ IEE611: Industrial Electronics N6
- ▶ EET611: Electrotechnics N6

Teaching and Learning Methodology

Our teaching and learning methodology are designed to ensure that students receive quality education, engage in active learning, and achieve their academic and career goals while studying remotely.

Teaching & Learning Approach:

Self-Paced Learning:

Students are provided with structured course materials that allow them to study at their own pace. These materials include:

- ▶ Comprehensive study guides
- ▶ Prescribed textbooks and reference materials
- ▶ Class recordings for all modules

Interactive Learning:

To enhance understanding and engagement, students have access to:

- ▶ Online discussion forums to interact with peers and lecturers
- ▶ Case studies, practical activities, and self-assessment.

Tutor Support:

Distance learners are not alone in their journey. Academic support is available through:

- ▶ Specialized tutorial sessions twice a month.
- ▶ Email and online chat with subject tutors
- ▶ Feedback on assignments and progress tracking.

Assessment and Evaluation:

To ensure mastery of the subject content, assessments include:

- ▶ Formative Assessments (Assignments,)
- ▶ Summative Assessments (DHET Final examination)

Practical Training (For Applicable Courses)

For programs that require practical experience, students must:

- ▶ Complete work-integrated learning (WIL) or internships
- ▶ Submit workplace logbooks and reports for assessment
- ▶ Participate in practical simulations (if available online)

Our distance learning methodology is structured to provide flexibility while maintaining academic rigor. With the right discipline, resources, and support, students can successfully complete their studies and achieve their qualifications.

The adherence to a national academic standard is monitored by the Academic Management team at the Head Office.

Therefore, all students will continue to receive the same quality of education.

Examination

- ▶ Department of Higher Education & Training (DHET) is the only Examination body responsible to set and administer National Examinations.
- ▶ Only students who have registered and complied with the administration requirement will be allowed to write DHET Examination at closest CTU Campus.
- ▶ All DHET Examination will be written at registered CTU Training Solutions Examination Centre - Upon enrolment, it is imperative for the learner to decide on the choice of Examination Centre closest to him/her.
- ▶ Additional cost will be required to travel to the nearest CTU Campus to write the DHET Examinations.

Textbooks and e-guides

A list of prescribed textbooks, which shall be for the student's own account, will be made available within the programme e-guides. Students will receive electronic copies of the academic guides (e-guides) via the Teaching and Learning platform. Students are advised to consult the [Device Specifications and Stationery List](#) document for further details regarding programme requirements.

Technology hardware, software and data requirements

A laptop is required to access the VLIT sessions, all study material, and complete assessments etc.

For additional information please consult the CTU Bring your own device guide.

A minimum of 20 GB data per month (uncapped recommended) is required to access training material.

Results and certification

- ▶ Certificates and diplomas are issued by the DHET.
- ▶ All qualifications are nationally recognised by industry and universities
- ▶ All result letters will only be issued by the DHET.
- ▶ Release of statements of results and certificates are dependent on DHET timelines and are not within CTU's control

Upon successful completion of this programme, learners will receive a:

- ▶ National Certificate at each level N4, N5, N6
- ▶ National N Diploma in Electrical Engineering (on completion of N4 - N6 and 24 months in-service training).

International certifications

For student's own account

- ▶ Year 1: MS Word and MS Excel
- ▶ Year 2: MS PowerPoint

Career fields

Students can be employed in the following career fields:

- ▶ Circuits and circuit design
- ▶ Instrumentation and Control
- ▶ Mechatronics
- ▶ Microelectronics
- ▶ Power Systems

Articulation

A candidate who has successfully completed the N4, N5 and N6 Certificates, may pursue the following path to obtain the National N Diploma, as per Report 191 by the DHET.

The candidate must have:

- ▶ A minimum of 12 advanced instructional offerings, with at least a pass in three instructional offerings in each of the following levels: N4, N5 and N6, but with a maximum of five N4 instructional offerings.
- ▶ 2 instructional offerings at N6 level must be relevant to the candidate's vocation.
- ▶ The candidate must obtain work experience of 24 months in an industry that has as its main function the practical execution of the 2 instructional offerings mentioned above.

Pricing*

Electrical Engineering

Programme	Registration Fees (per semester)	Tuition fee (per semester)
Option 1 (2 Modules per semester)	R1 000	R5 100
Option 2 (3 Modules per semester)	R1 000	R7 650

*** Excludes external fees and identified textbooks if applicable.**

Payment

Visit our website to view the payment method.

[Payment Methods.](#)

APPLY for Student Loan [HERE!](#)

Additional costs

Students must make provision for additional items such as textbooks, stationery, supplementary examinations, research costs and printing, field trips etc.

Disclaimer

The content of this fact sheet is subject to change without notification due to market trends in the industry, legislation and/or programme version updates. Refer to website for the latest version of the prospectus. CTU Training Solutions (PTY) Ltd, reserves the right to change the programme content without prior notice. Additional international exams may be written but are not included in the programme fee. Minimum student (capacity) group sizes will fall into the Virtual Instructor-Led programme commencing in the months of February & July of each year.

I (Name of student):.....hereby acknowledge that I understand the information stated in this document and fully comprehend the specifics explained above pertaining to this qualification.

Student signature:.....

Signature of legal guardian:.....

Name of legal guardian:.....

Consultant signature:.....

Name of sales consultant:.....

Date:.....

*** Please note the original signed copy should be kept on the student record file.**

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