

# Start your future career in Electrical Engineering

National Diploma in Engineering (Electrical)

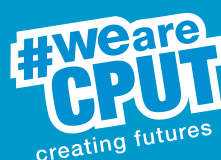


## CONTACT

+27 (0)21 959 4370  
RogersJ@cput.ac.za



Cape Peninsula  
University of Technology  
creating futures



## YOUR FUTURE SELF

### Future studies

BTech: Engineering (Electrical)  
MTech: Engineering (Electrical)  
\*MEng: Engineering (Electrical)  
DTech: Engineering (Electrical)  
\*\*DEng: Engineering (Electrical)

\*MEng is optional for current students and compulsory for first time registrations as of 2016.  
\*\*DEng 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, Tellumat, Caltex  
Siemens, Vodacom, Telkom  
Transtel, Grand West Casino  
SKA, Satellite industry, South African weather  
service, South African observatory, Air traffic and  
navigation services, Spoornet

creating futures in engineering

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.

#### YOU WILL LIKE THIS IF

You like a challenge, enjoy electronics, and have good mathematical skills.

#### YOU WILL STUDY AT

Bellville Campus

#### YOU WILL STUDY FOR

**ND Engineering: Electrical**  
Three years, full-time

**ND Engineering: Electrical (ECP)**  
The four years, full-time

## 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.

#### DISCLAIMER

Meeting the minimum requirements does not guarantee admission. This information is subject to change based on approval and accreditation of HEQSF aligned qualifications during 2018/ 2019.

Admission requirements may therefore differ between the existing qualification and the HEQSF aligned qualification. Please consult the CPUT website or faculty for updated information. Every effort has been made to ensure the accuracy of the information in this pamphlet; however the University reserves the right at any time, if circumstances require to make changes to any of the published details.

## 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.

## 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
- South-African citizens with international qualifications
- Applicants with permanent residence in South Africa
- Refugee asylum seeker temporary permit/ formal recognition of refugee status in the RSA

- 1 Choose a qualification
- 2 Complete an application form
- 3 Gather your documents (i.e. certified copies less than three months old)
- 4 Fill in the application form
- 5 Pay the application fee
- 6 Hand deliver or post your form and certified copies of documents to our District Six, Bellville, Mowbray, or Wellington Campuses (Admin buildings)
- 7 Follow-up and get your admission status via the online application tracking system by visiting [www.cput.ac.za/study/track](http://www.cput.ac.za/study/track)



### ONLINE APPLICATIONS

Do you qualify to apply online?

ONLINE APPLICATIONS ARE FREE

The following persons may only apply online, i.e. no manual applications will be allowed:

- South African citizens with South African qualifications
- Returning students with a break in studies (more than 1-year break)

- 1 Choose your qualification by consulting this brochure or the website
- 2 Gather your documents (i.e. certified copies less than three months old)
- 3 Download the online application guide available on our website for information on how to apply online
- 4 Complete your application online by visiting [www.cput.ac.za/study/apply](http://www.cput.ac.za/study/apply)
- 5 Follow-up and get your admission status via the online application tracking system by visiting [www.cput.ac.za/study/track](http://www.cput.ac.za/study/track)

#### CLOSING DATES

**31 AUGUST**

International applicants

**30 SEPTEMBER**

South African citizens