

Bachelor of Engineering Technology in Electronic Engineering

Location: Steve Biko Campus, S8 Level 3

DESCRIPTION OF THE PROGRAMME

The programme is designed to build the necessary knowledge, understanding and skills required towards becoming a competent practicing engineering technologist or certificated engineer. This qualification provides students with the preparation required for careers in electronic engineering that make a meaningful contribution to the economy and national development.

Qualified candidates can register with the Engineering Council of South Africa (ECSA) as Professional Engineering Technologists.

CAREER OPPORTUNITIES

As an electronic engineering professional you should be able to justify, design, construct, commission and maintain instrumentation & control, computer and electronic communication systems in a wide range of industries including paper, sugar, vehicle manufacturing, refining, water reticulation, telecommunications, IT and data networking infrastructure. Qualified electronic engineering professionals are highly sought after by industry.

ENTRY REQUIREMENTS

In addition to the general admission requirements as stated in the General Rules, the following minimum requirements (or their equivalent) shall apply:

School leaving or TVET applicants who wish to enrol for the programme must apply through the CAO system by no later than 30 September of the previous year. The number of students enrolled in the programme is determined by the University and departmental growth policies and a ranking system is used to determine the number of candidates as required.

Compulsory Subjects	NSC Rating	SC		NCV Level 4
		HG	SC	
English (home) OR English (1st additional)	4	E	C	60%
Mathematics	4	E	C	70%
Physical Science	4	E	C	70%
Life Orientation				60%
				+ 2 vocational subjects

The subject NSC Mathematical Literacy will not be accepted as a substitute for the subject NSC Mathematics.

The exit certificate of the candidate must qualify the candidate for degree study at an institution of higher learning.

Applicants with a NSC will be ranked according to the sum of their scores for Mathematics and Physical Science, subject to a minimum combined score of 120%.

Prospective applicants may also present an NQF level 6 Diploma in Engineering for entry into the degree programme. A possibility of transfer of credits for cognitive previous studies would be considered dependent on the discipline and nature of the Diploma being presented.

G7 (3) Admission Requirements Based Upon Work Experience, Age and Maturity

For admission to entry level degree studies:

A person may, subject to such requirements as the Senate may determine, be ad-mitted if such a person is in possession of a National Senior Certificate, Senior Certificate or an equivalent certificate, but lacks the minimum requirements for admission to the degree provided that:

- The person shall have reached the age of 23 in the first year of registration and shall have at least:
 - three years' appropriate work experience; and/or
 - capacity for the proposed instructional programme, which shall be assessed by a Senate-approved admission test; and the person has obtained
- A conditional certificate of exemption from the Matriculation Board (when in possession of the Senior Certificate (SC)); OR has met
- The requirements for Senate discretionary admission (when in possession of the NSC or equivalent), where Senate is satisfied the applicant has shown sufficient academic ability to ensure success, and that the person's standard of communication skills, and/or work

experience are such that the person, in the opinion of the Senate, should be able to complete the proposed instructional programme successfully.

- The person's application for admission in terms of Rule G7 (3) is approved prior to registration.

TUITION FEES

To assist you with your planning, approximate fees are indicated below as a guideline:

First Year Curriculum	2018 Fees (Approx)
Semester One	
Engineering Mathematics IA	3200
Engineering Physics IA	3200
Electrical Principles I	3200
Analogue Electronics IA	3200
Digital Electronics IA	3200
Computer and IT	2200
Cornerstone 101	3200
Equipment Issue	2171
Semester Two	
Engineering Mathematics IB	3200
Engineering Physics IB	3200
Electrical Principles 2	3200
Analogue Electronics IB	3200
Digital Electronics IB	3200
Technical Literacy	2200
TOTAL	41 771
Second Year Curriculum	
Semester One	
Electronic Measurement	2200
Engineering Mathematics 2A	3200
	3200
Fundamentals of Instrumentation 2	3200
Fundamentals of Communication 2	3800
Electronic Circuit Design 2	3200
Computer Programming 2	3800
Microsystem Design 2	

Semester Two	
Engineering Mathematics 2B	3200
Fundamentals of Control Systems 2	3200
Fundamentals of Networks 2	3200
Electronic Circuit Design 3	3800
Computer Programming 3	2200
Microsystems Design 3	3800
TOTAL	42 000
Third Year Curriculum	
Semester One	
Digital Signal Processing 3A	2200
Electronic Design Project 3A	3800
Project Management	2200
*Process Instrumentation 3A	3200
*Control Systems 3A	3200
*Process Control Systems 3A	3200
**Communications and Networks 3A	3200
**RF Engineering 3A	3200
**Embedded Systems 3A	3800
Semester Two	
Digital Signal Processing 3B	2200
Electronic Design Project 3B	3800
Principles of Management	2200
*Process Instrumentation 3B	3200
*Control Systems 3B	3200
*Process Control Systems 3B	3200
**Communications and Networks 3B	3200
**RF Engineering 3B	3200
**Embedded Systems 3B	3800
TOTAL	35 600

*Indicates electives for Instrumentation and Control

**Indicates electives for Electronic Communication

PLEASE NOTE: DUT cannot be held liable for the fees in this brochure as the 2018 fees are not yet final.

Closing date for applications: 30 September 2017

CAO Code: DU-D-BGL

For Further Information:

The Head: Department of Electronic Engineering

Durban University of Technology

PO Box 1334

DURBAN 4000

Tel: (031) 373 2932

Fax: (031) 373 2744

Website: <http://cs.dut.ac.za>

Application Forms:

Contact the **Central Applications Office (C.A.O.)**

Address letters to:

Central Applications Office

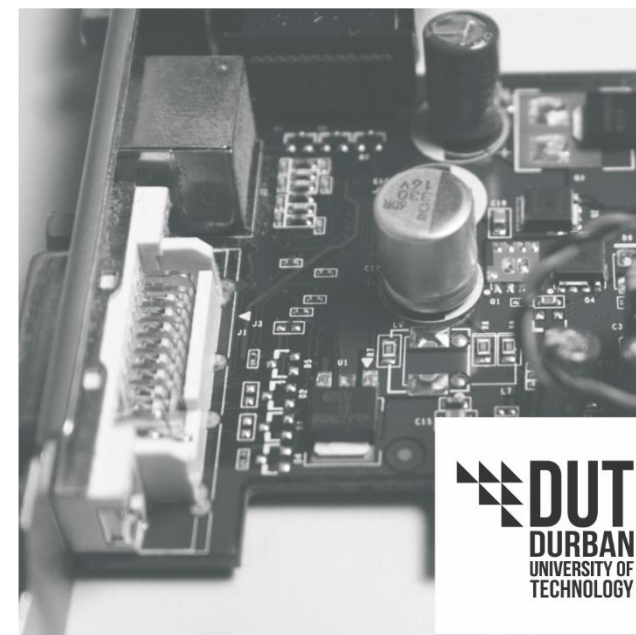
Private Bag X06

Dalbridge 4014

Tel: (031) 268 4444

Fax: (031) 268 4422

Apply Online: <http://www.cao.ac.za>



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CAREER INFORMATION

BACHELOR OF ENGINEERING TECHNOLOGY

**ELECTRONIC
ENGINEERING**

1 JANUARY – 31 DECEMBER 2018

**FACULTY OF
ENGINEERING
& THE BUILT
ENVIRONMENT**

**DEPARTMENT OF
ELECTRONIC
ENGINEERING**

2018

This leaflet is for information purposes only and is binding on the Durban University of Technology.