



Welcome to Electrical &
Electronic Engineering



E&E Department

The Department of Electrical and Electronic Engineering forms part of the Faculty of Engineering at Stellenbosch University. Our department is situated in the picturesque town of Stellenbosch in South Africa amongst the Cape Winelands. We pride ourselves in offering quality education for undergraduate students in the fields of Informatics, Energy, Robotics, Telecommunication and Data Engineering. We offer world-class postgraduate supervision for projects in a variety of fields including Electrical Energy Systems, Electronics and Electromagnetics, Computers and Control Systems, Signal Processing and Machine Learning. Please contact us for more information, or for arranging a visit.



Undergraduate Focus

Informatics

The focus of Informatics is on high-level computer science and software systems such as Internet communication, virtual storage, hardware and software design.

Energy

A focus on electric motors, power generation, renewable energy, energy control and computer-controlled power management.

Robotics

Where mechanics meets electronics. Robotics covers the design of robot vehicles, unmanned aeroplanes and satellites. Modules include control systems, computer systems & computer science.

Telecoms

Electromagnetics and Telecommunication is a fascinating field. This branch focuses on high-frequency techniques and the transmission or reception of data.

Data Engineering

Get prepared for the Fourth Industrial revolution by learning to structure, model and analyse large amounts of data in a data-driven society.

Postgraduate Focus

Electrical Energy Systems

Design electrical transmission systems, large-scale electrical machinery and high-power electronic converters. Find out how to generate power from renewable resources and design battery-powered vehicles.

Computers & Control

Design and build digital systems and microcomputers to control almost any device, from automatic irrigation systems to aircraft autopilots and satellites targeting their cameras on the ground

Electronics & Electromagnetics

Get involved with microwave electronic design, antenna and microwave component design, computational electromagnetics, superconducting and ultra-high speed electronics and integrated circuits.

Signal Processing & Machine Learning

Learn how to design and build digital systems and microcomputers to control almost any device, from automatic irrigation systems to aircraft autopilots and satellites targeting their cameras on the ground.