

# POSTGRADUATE DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING

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## Programme Learning Outcomes

**Programme Learning Outcomes for Postgraduate Diploma in Electrical and Electronic Engineering, NFQ Level 9, Major Award**

On successful completion of this programme, students should be able to:

- Apply principles from mathematics, science and engineering to solve problems in electrical and electronic engineering and in the related disciplines of microelectronic and mechanical engineering at an advanced level;
- Apply information technology to visualise and analyse problems in electrical and electronic engineering and in the related disciplines of microelectronic and mechanical engineering;
- Identify, formulate, analyse and solve engineering problems;
- Design components and systems to a high standard, demonstrating logical thinking to provide an appropriate solution;
- Critically evaluate the engineering, economic, environmental and societal impacts of proposed design solutions including the use of the technical literature;
- Work as an individual and in teams in an engineering environment;
- Communicate engineering-related information effectively;
- Maintain high ethical standards in their practice of engineering.