

## PROGRAMME DETAILS

It is designed for those who want to work with the future technologies and current market trends in New Zealand. A student who is keen in solving electrical or electronic engineering problems, want to design systems and administrate networks can join ICA Diploma in Electrical Engineering (DEE).

**The DEE consists of two specializations:**

- **Telecommunication and Networks**
- **Electronics and Embedded System**

Compulsory Courses:

Mathematics, Engineering Management and Final Project

Total Credits: 240

Duration: 2 Years (Full Time)

Total 80 weeks including holidays

### ENTRY CRITERIA

Applicants must have a Diploma in Electrical Engineering (Level 5) or equivalent knowledge and skills.

For international students: IELTS (Academic = 6.0 score with no band less than 5.5)

Our Address:

**ICA HOUSE** Level 3, 520 Queen Street  
Auckland CBD, New Zealand

A scientist can discover a new star but he cannot make one. He would have to ask an engineer to do it for him.

*Gordon Lindsay Glegg*

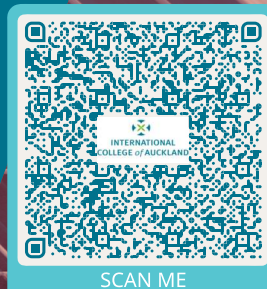


## INTERNATIONAL COLLEGE of AUCKLAND

For Admissions, Fees & Technical Enquiries

Email: [enrol@ica.ac.nz](mailto:enrol@ica.ac.nz)

Call +64 (0) 9309 9558



SCAN ME

[www.ica.ac.nz](http://www.ica.ac.nz)

# ELECTRICAL ENGINEERING

**DIPLOMA  
LEVEL-7  
240 CREDITS**

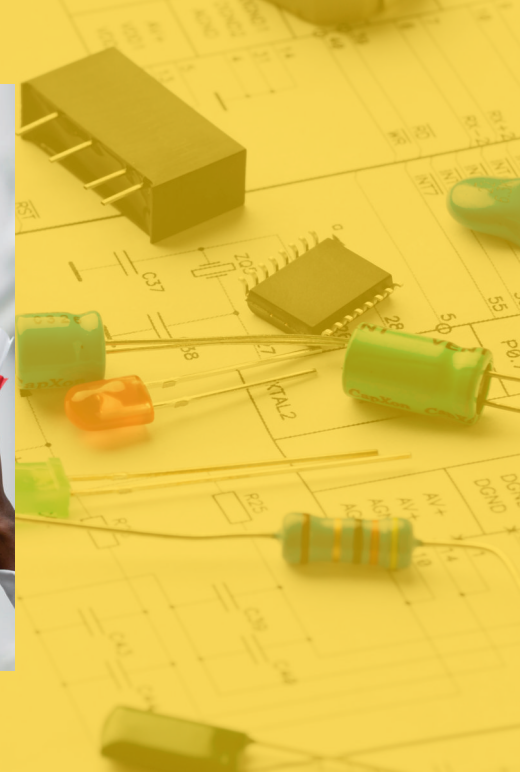
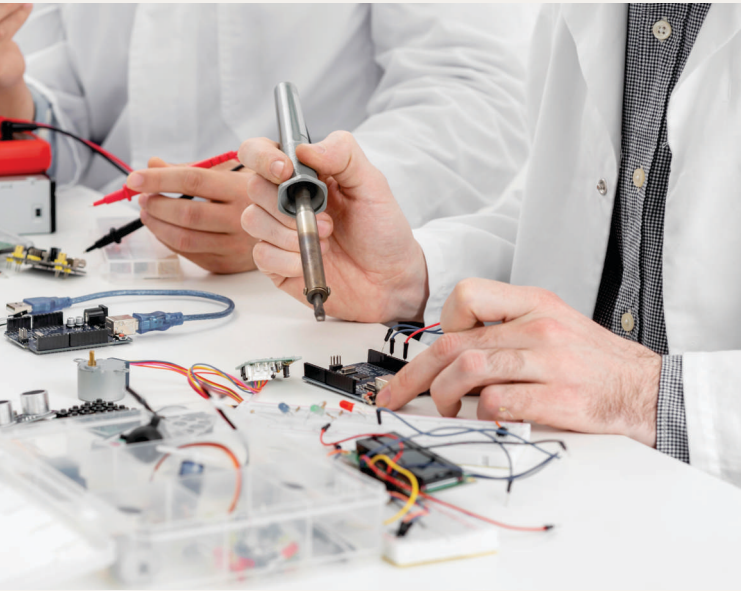
- **Telecommunication & Networks**
- **Electronics & Embedded Systems**



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## Recognition of Prior Learning (RPL)

RPL addresses previous qualifications and relevant experience including:

- ▶ Cross credits
- ▶ Assessment of prior learning
- ▶ Credit transfers

Maximum 50% of cross credits may be awarded through RPL and APL. Credit transfers can be done for all the subjects already passed.

### CAREER OPPORTUNITIES

- ▶ Business Intelligence Consultant
- ▶ Programming Web Developer
- ▶ Network Engineer
- ▶ Mobile Applications Developer
- ▶ Database Administrator

### CORE PAPERS

- DEE500 Mathematics for Engineers
- DEE600 Engineering Project Management
- DEE700 Final Project

### OPTIONAL PAPERS (ANY 3)

- DEE501 Electrical Circuits & Devices
- DEE502 Computer Programme & CAD Tools
- DEE610 Electronic Communication Systems
- DEE602 Data Communications & Computer Networks
- DEE603 Antenna & Wave Propagation
- DEE604 Advanced Circuits & Systems
- DEE605 Advanced Electronic Devices & Applications
- DEE606 Microprocessor & Digital Logic Design

### STRAND PAPERS (ALL 6)

#### TELECOMMUNICATION & NETWORKS

- DEE710 Network Security
- DEE711 Analysis & Design of Enterprise Networks
- DEE712 Wireless Sensor Networks
- DEE713 Wireless Communication
- DEE714 Broadband Communication
- DEE715 Optical Fibre Communication

#### ELECTRONICS & EMBEDDED SYSTEMS

- DEE720 Power Electronic Principles & Applications
- DEE721 Automated Test System Design & Best Practices
- DEE722 Advanced Microcontrollers & Interfacing
- DEE723 Real Time Embedded Systems
- DEE724 Real Time Operating Systems
- DEE725 Control Systems