

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:
1) Telecommunication and networks,
2) Electronics and embedded systems along with compulsory courses in electrical engineering including mathematics, engineering management and final project.
Total Credits: 240,
Duration: 2 Years (Full Time) (Total 80 weeks including holidays)



STUDY



**INTERNATIONAL
COLLEGE of AUCKLAND**

Admissions and Fees

Email: enrol@ica.ac.nz, katie.gao@ica.ac.nz
Phone: +64 (0)9 309 9558

Technical Enquiries

Email: faiz@ica.ac.nz
Phone: +64 (0)9 309 9558 - ext 115

www.ica.ac.nz



Diploma in Electrical Engineering

Level 7

Contents

Compulsory papers:

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

Optional Papers (Any Three Papers):

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

Strand Papers

Telecommunication and Networks (All Six Papers)

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

Electronics and Embedded Systems (All Six Papers)

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



Aim

This programme aims to provide an advanced programme of study covering core knowledge and skills in electrical and electronics engineering, and two specialist strands: Telecommunications and networks; and Electronics and embedded systems. The programme has been designed for students who have already completed a course of study in electrical engineering at Level 5, or who have equivalent skills and knowledge, and wish to develop more specialist knowledge and skills.

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 transefrs can be done for all the subjects already passed.

Electrical Engineering Society

- Visit our Facebook page
<https://www.facebook.com/ICAElectricalSociety>



Career Opportunities

- Business intelligence consultant
- Programming Web developer
- Network engineer
- Mobile applications developer
- Database administrator

Entry Requirements

Applicants must have a Diploma in Civil Engineering (Level 5) or equivalent knowledge and skills.
For international students: IELTS (academic=6.0 score with no band less than 5.5).