The Department of Electrical and Computer Engineering offers a flexible postgraduate Masters by coursework in Electrical Engineering to meet the needs of electrical power, electronic, telecommunications and computer system engineers looking to expand their career opportunities.

The course allows you to either further specialise in the field of your undergraduate degree, or to broaden your skills and knowledge in other areas such as power, renewable energy, electronic design, control systems, communications and computer engineering. It effectively allows you to move from your undergraduate area of speciality into another area in electrical and computer engineering: for example, from electronics into electrical power systems. It can also be used to combine related areas of specialisation such as electronics and telecommunications, or may be used to broaden and deepen your understanding of your undergraduate area of specialisation.

The series of coursework units is individually tailored to suit your specific present and future professional needs. You will also undertake a research project involving investigation, research, critical evaluation, analysis, design and/or prototype development. Completion of the project includes preparing and presenting a formal thesis describing the project’s development and outcomes.

**CAREER OPPORTUNITIES**
This degree adds to the skill base gained in an appropriate undergraduate degree, enhancing your ability to further your career and broadening your employment opportunities. Areas of opportunity are dictated by the choice of units undertaken, and can include industry sectors previously inaccessible with only your undergraduate specialisation. Areas of employment include oil and gas, mining and downstream processing, biomedical instrumentation, communications, computer systems, aerospace and defence, renewable energy, electrical power systems, manufacturing and transportation.

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ENTRY REQUIREMENTS
A Bachelor of Engineering degree in electronic, communications, electrical, electrical power or computer systems engineering from a recognised university. The Head of Department will consider applications from other graduates in engineering on a case-by-case basis.

DURATION
This fee-paying course is one year full-time or equivalent part-time study. Two intakes are offered each year in February and July.

LOCATION: Bentley

COURSE CRICOS CODE: 042175G

COURSE STRUCTURE

Year 1 Semester 1
- Electrical Engineering Project 695
- Optional units to select from in Year 1 Semester 1 - Choose 3
  - Management Overview 560*
  - Computer Aided Engineering of Digital Systems 601
  - Stochastic Processes for Telecommunications Systems 601
  - Power System Analysis 603
  - Power Electronics 603
  - Renewable Energy Principles 603
  - Wireless Data Networks 603
  - Internetworking Systems 603
  - Microcomputer Systems 603
  - Computer Structures 601
  - Digital Signal Processing 603
  - Digital Communications 603
  - Control Systems 603

Year 1 Semester 2
- Electrical Engineering Project 696
- Optional units to select from in Year 1 Semester 2 - Choose 3
  - Mobile Radio Communications 602
  - Multivariable Control 604
  - Renewable Energy Systems 604
  - Electrical Utility Engineering 633
  - Electric Power Transmission & Distribution 604
  - Power System Protection 603
  - Power Electronics 604
  - Electrical Machines and Stability 604
  - Instrumentation and Control 602
  - Data Network Security 604
  - Network Design 603
  - Computer Structures 602

* Available semester 1 and 2.

REAL WORLD PRACTICE
Students from all over the world participate in our Masters by coursework programs taught by our nationally and internationally recognised staff, who are leaders in their respective areas of expertise. Some units are taught specifically within this Masters degree, whereas others are available through the more specialised Electrical and Computer Engineering Masters courses, making use of the expertise and industry relationships developed within particular specialities. The degree also has the flexibility to allow you to study two units external to the Department of Electrical and Computer Engineering. Students pursuing this opportunity typically take units in management or computer science, to further support their practice of engineering in real management and project situations.

INTERNATIONAL STUDENTS
International students studying in Australia on a student visa can only study full-time and there are also specific entry requirements that must be met. Please refer to www.international.curtin.edu.au or phone +61 8 9266 7331 for further information, as some information contained in this publication may not be applicable to international students.