Master of Engineering (Electronic Engineering)

You will study courses that go beyond the theory of recent engineering developments. Areas of study include:

- electronic circuit design
- integrated circuit design and fabrication
- embedded electronics
- electronics control systems
- computer systems electronics
- micro-electrical mechanical systems (MEMS).

The program also has a focus on developing your technical, personal and business skills. As a result, you will be well equipped for leadership roles in business and industry. Qualified technologists with relevant industrial experience are encouraged to apply.

Learning and teaching

RMIT offers a variety of learning and teaching approaches including lectures, seminars, workshops, presentations, group discussions and syndicate work.

You will have access to online resources through the myRMIT student portal.

Ongoing assessment throughout the semester includes case studies, project reports, assignments, presentations, reflective journals and examinations.

Classes are taught by experts in their fields. There is a strong emphasis on laboratory work and professional engineering projects to put theory into practice and to enhance research, teamwork, leadership, communication and project management skills.

Industry connections

Industry plays a vital role in the development, delivery and review of the program through membership of the Program Advisory Committee (PAC). Other members of the PAC include alumni and academic staff.

There are links with industry, particularly through laboratories that incorporate work-integrated learning, through research projects, consulting and industry sponsored student design projects.

Notable industry links for this program are:

- Dyne Industries Pty Ltd
- Keysight Technologies Australia Pty Ltd
- Microchip Australia Pty Ltd
- Analog Devices Australia
- Futuris Automotive Interiors
- NEC Australia
- National Instruments
- SEW-Eurodrive
- IEEE (Institute Electrical and Electronics Engineering).

Career outlook

In the private sector, graduates may work in the design, manufacture and supply of electronic products; in energy, systems and services as technical experts; and as business managers and executive officers.

In the public sector, electronic engineers work on essential services such as telecommunications, transportation, security, defence, health, emergency services and the environment.

Graduates may also choose to establish their own business operating in the local and international electronic market.

www.rmit.edu.au/programs/mc233
Program structure

The Master consists of 192 credit points.

After completing 96 credit points of study approved by the Program Manager, you may exit with a graduate diploma.

During this program you will:
- undertake and be assessed on structured activities that allow you to learn, apply and demonstrate your professional or vocational practice
- interact with industry and the community when undertaking these activities
- complete these activities in real-work contexts or situations.

Work-integrated learning experiences will be simulated during the program.

These courses provide realistic work situations allowing you to learn, apply and demonstrate your professional engineering practice.

Year 1

You will take core courses on various areas of system and device design, application materials and fabrication technology as well as elective courses from an approved list. You will also undertake projects that focus on professional engineering practices.

Year 2

You will undertake core and elective courses that either advance the professional engineering projects of year 1 or involve a larger research project. If you are already working in an area related to your research topic, the project can be aligned to the work you’re doing.

Elective courses include:
- embedded system design
- digital system design
- integrated circuit design
- RF and microwave circuits.

You also have the option within these electives to study project design and problem-solving.

Credit and exemptions

If you have successfully completed one of the following qualifications majoring in electronic engineering you will be eligible for exemptions as follows:

<table>
<thead>
<tr>
<th>Qualification level</th>
<th>Exemptions</th>
<th>Remaining program duration</th>
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</thead>
<tbody>
<tr>
<td>Bachelor of Engineering in the same discipline (AQF level 7 or equivalent)</td>
<td>Up to 48 credit points (equivalent to one semester of full-time study)</td>
<td>144 credit points (equivalent to three semesters of full-time study)</td>
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<tr>
<td>Graduate Certificate in the same discipline</td>
<td>Up to 48 credit points (equivalent to one semester of full-time study)</td>
<td>144 credit points (equivalent to three semesters of full-time study)</td>
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<tr>
<td>Bachelor of Engineering (Honours) in the same discipline (AQF level 8 or equivalent)</td>
<td>Up to 96 credit points (equivalent to two semesters of full-time study)</td>
<td>96 credit points (equivalent to two semesters of full-time study)</td>
</tr>
<tr>
<td>Graduate Diploma in the same discipline</td>
<td>Up to 96 credit points (equivalent to two semesters of full-time study)</td>
<td>96 credit points (equivalent to two semesters of full-time study)</td>
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This information is designed for Australian and New Zealand citizens and permanent residents of Australia.

Disclaimer: Every effort has been made to ensure the information contained in this publication is accurate and current at the date of printing. For the most up-to-date information, please refer to the RMIT University website before lodging your application. Visit [www.rmit.edu.au](http://www.rmit.edu.au)