

Master of Electronic and Computer Engineering

RMIT program code

MC

Location

Saigon South

Mode & duration

2 years full-time

Part time option available

Contact details

RMIT International University Vietnam
Student Recruitment Department

Saigon South Campus

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Hanoi Campus

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9 Pham Huy Thong Street, Ba Dinh District,
Hanoi

Program overview

The Master of Engineering (Electronic and Computer Engineering) post-graduate program aims to produce engineers with high grade technical skills, high productivity and who are effective in international business settings.

Career Prospects

Graduates will gain extensive state-of-the-art knowledge and skills in electronic and computer technologies. Balancing technical skills graduates will have built effective oral and written communication skills, teamwork, and business skills.

Graduates will find employment in the design, manufacture and supply of electronic products, computer systems and semiconductor fabrication. Their roles as Professional Engineers may span from detailed design through to business managers and senior executives. Graduates could also establish their own businesses operating in the local and international electronic and computer market.

In the public sector, graduates can provide the community with essential services in areas such as telecommunications, transportation, security, defence, health, emergency services and the environment.

Graduates may also undertake further studies in higher research and development.

Program features

Special features of this program include:

- Accreditation by Engineers Australia (being sought) for qualification to be recognised internationally by the Washington Accord
- Creative and Systematic Problem Solving skills (TRIZ based)
- Significant emphasis on team design project work.
- Individual research projects.
- High level of international technical and business English skills
- Work Integrated Learning – industry placements with relevant employers
- Interactive studio based teaching
- Practical hands-on learning in well equipped laboratories.

Teaching methods and Assessment

Teaching methods

Teaching consists of a mixture of classes, laboratories and workshops, online support and interactive research and design project teams.

Assessment

Assessment is ongoing throughout the year and includes examinations, tutorials, reports, oral presentation, research projects, laboratory projects and assignments.

Admission requirements

Academic

Applicants should have:

- A recognised bachelor degree in an electrical, electronic, communication or computer engineering; or
- Evidence of successful completion of a post-matriculation diploma program of at least three years duration; or
- A combination of academic qualifications and work experience equivalent to the above requirements.

English language

One of the followings:

- IELTS (Academic)—6.5+ (no band less than 6.0)
- TOEFL Paper-based—580+ (TWE 4.5+)
- TOEFL Computer-based—237+ (TWE 4.5+)
- TOEFL Internet-based (iBT) overall score 92, minimum 20 in all sections
- Successful completion of RMIT Vietnam English Advanced Level (Level 6.2)

Admission procedure

RMIT Vietnam has three semesters per calendar year with intakes each semester for academic programs (subject to demand).

Application deadlines for 2010 are:

- 23 April for June intake
- 20 August for October intake
- 17 December for February 2011 intake

Offers will be based on academic merit (Bachelor Degree or equivalent).

Students who wish to apply for credit for previous studies should contact RMIT Vietnam Student Recruitment Department for further details.

Program structure

Semester1

Title	Credit points
English 1 – Report writing, research, & presentations	12
English 2 – Western Business Skills	12
English 3 – Business writing, & presentations skills	12
English 4 – Project Management for Engineers	12

(suitably qualified candidates may claim exemption for Semester 1 courses)

Semester2

Title	Credit points
Circuit and System Simulation	12
Team Engineering Design 1	12
Microcomputer Systems Design	12
Systematic & Inventive Problem Solving 1 (TRIZ* based)	12

Semester3

Title	Credit points
Systematic & Inventive Problem Solving 2 (TRIZ* based)	12
Team Engineering Design 2	12
Electronic Devices; Physics, Design and Simulation	12
Electronic Materials	12

Semester4

Title	Credit points
Work Integrated Learning 1,2,3,4	48

Semester5

Title	Credit points
Computer Robotics and Control	12
Advanced Digital Design	12
HDL and High Level Synthesis	12
Individual Research Project 1	12

Semester6

Title	Credit points
Individual Research Project 2	12
Software Systems Engineering	12
Semiconductor Device Fabrication	12
Digital Design Automation	12