



## Master of Information and Communications Technology

<b>CRICOS Code</b>	116353M
<b>Full Time</b>	2 years
<b>Part Time</b>	4 years (Domestic only)
<b>Units</b>	16
<b>Campus</b>	Level 16, 233 Castlereagh Street, Sydney 2000 363 King Street, West Melbourne 3003 Level 1, West, 237 Ryrie Street, Geelong Victoria 3220
<b>IELTS Academic</b>	6.5 overall with no band less than 6.0 or equivalent
<b>Delivery mode</b>	Blended Face-to-face
<b>Outcome</b>	Master of Information and Communication Technology

### Course Description

Graduates with a Master of Information and Communications Technology are ready for many different positions in business. The degree gives you skills to needed to start or continue your career in the industry.

Graduates will be prepared for success in contemporary organisations and prepared to take on the industry's trends, responsibilities, needs and opportunities.

### Career Outcomes

Young people with business degrees get work in almost every industry, improving businesses and advancing their own careers.

Graduates can gain employment in a range of roles in the IT sector. The course prepares you for employment as:

- ICT manager
- Cyber security specialist
- Telecommunication network engineer
- Cyber security architect
- Cyber security engineer
- Cyber security consultant
- Cloud engineer
- Network automation specialist

The Master of Information and Communications Technology and the imbedded Graduate Diploma of Information and Communications Technology and the Graduate Certificate in Information and Communications Technology are accredited by the [Tertiary Education Quality and Standards Agency](#):

# Master of Information and Communications Technology

## Course Learning Outcomes

### Master of Information and Communication Technology

<b>CLO1</b>	Critically review, apply and reflect on the complex and developing body of knowledge in the information and communications discipline.
<b>CLO2</b>	critically evaluate ethical issues in information technology situations and ICT professional practice;
<b>CLO3</b>	Develop and justify technical solutions to complex and/or intricate problems by balancing technical feasibility with business objectives, using industry best practices;
<b>CLO 4</b>	communicate complex technical information technology and telecommunication concepts and solutions to specialist and non-specialist stakeholders;
<b>CLO 5</b>	create research informed information technology approaches to complex organisational problems

### Graduate attributes

<b>GA1</b>	Communicate effectively in a diverse range of professional or community context
<b>GA 2</b>	Complete work tasks and assignments independently or as an effective member of multidisciplinary teams
<b>GA 3</b>	Engage in and value life-long learning leading to the enhancement of professional knowledge and skills
<b>GA 4</b>	Are information and technology literate
<b>GA 5</b>	Respond appropriately to a changing workforces, cultures and values reflecting a global work environment
<b>GA 6</b>	Demonstrate critical thinking, problem solving and decision-making abilities essential to contributing soundly to the resolution of issues confronting organisations
<b>GA 7</b>	Facilitate intellectual curiosity
<b>GA 8</b>	Act in an ethical manner in all aspects of professional life.

## Course Structure

### Master of Information and Communications Technology (no specialisation)

		Credit Points	Prerequisites
BUS502	Project Management	6	Nil
ICT501	Mathematical Computing	6	Nil



## Master of Information and Communications Technology

ICT502	Computer Systems	6	Nil
ICT503	Ethics in ICT	6	Nil
ICT504	Operating Systems	6	Nil
ICT505	Software Development	6	Nil
CYB510	Cyber Security	6	ICT504, NTW501
CYB511	Cyber Security Law and Policies	6	ICT503
CYB512	Applied Cryptography	6	ICT501
Or			
CYB605	Cyber Forensics	6	ICT502, NTW501
CYB601	Penetration Testing	6	ICT502, ICT504, ICT511, NTW501
NTW501	Communications Networks	6	Nil
NTW502	Telecommunications	6	ICT501, ICT502
NTW503	Network Routing	6	NTW501
NTW601	Mobile Networks	6	ICT501, NTW502
ICT600	Research Methods	6	48 Credit points
ICT610	Applied Technology Capstone Project	6	ICT600
	TOTAL CREDIT POINTS required	96	

## Master of Information and Communications Technology – with a specialisation in Cyber Security

		Credit Points	Prerequisites
BUS502	Project Management	6	Nil
ICT501	Mathematical Computing	6	Nil
ICT502	Computer Systems	6	Nil
ICT503	Ethics in ICT	6	Nil
ICT504	Operating Systems	6	Nil
ICT505	Software Development	6	Nil
CYB510	Cyber Security	6	ICT504, NTW501
CYB511	Cyber Security Law and Policies	6	ICT503
CYB512	Applied Cryptography	6	ICT501
CYB513	Cyber Forensics	6	ICT502, NTW501
CYB601	Penetration Testing	6	ICT504, CYB511
CYB602	Enterprise Security Management	6	ICT502
CYB603	Enterprise Cloud Security	6	ICT502, NTW501
NTW501	Communications Networks	6	Nil
ICT600	Research Methods	6	48 Credit points
ICT610	Applied Technology Capstone Project	6	ICT600
	TOTAL CREDIT POINTS required	96	

## Master of Information and Communications Technology with a specialisation in Networking and Telecommunications

		Credit Points	Prerequisites
BUS502	Project Management	6	Nil
ICT501	Mathematical Computing	6	Nil
ICT502	Computer Systems	6	Nil

## Master of Information and Communications Technology

ICT503	Ethics in ICT	6	Nil
ICT504	Operating Systems	6	Nil
ICT505	Software Development	6	Nil
NTW501	Communications Networks	6	Nil
NTW502	Telecommunications	6	ICT501, ICT502
NTW503	Network Routing	6	NTW501
NTW504	Network Administration		
NTW601	Mobile Networks	6	ICT501, NTW502
NTW602	Network Programming	6	ICT505, NTW503, NTW504
NTW603	Cloud Computing	6	NTW501
ICT600	Research Methods	6	48 Credit points
ICT610	Applied Technology Capstone Project	6	ICT600
	TOTAL CREDIT POINTS required	96	

### Exit outcomes

To obtain a Master of Information and Communications Technology, candidates are required to successfully complete all 16 units. Not all units are offered each semester. If you complete 8 units with the Institute (either at the Institute or with Advanced Standing that does not exceed 4 units), you will be eligible to obtain a Graduate Diploma of Information and Communications Technology. If you complete 4 units with the Institute (either at the Institute or with Advanced Standing that does not exceed 2 units), you will be eligible to obtain a Graduate Certificate of Information and Communications Technology.

### International Student Duration

The CRICOS-registered duration is 104 weeks or 2 years of full-time study (4 semesters). Please note the part time mode is not available to a holder of a student visa, who is not a citizen of Australia or New Zealand, or who is not an Australian permanent resident, or who is a temporary resident of Australia.

### Domestic Student Duration

For domestic students the course is 2 years full-time or 4 years part-time.

### Delivery Method

Type	Explanation
Blended	Delivered partially on campus and partially online
Face to Face	This is delivered at level 16, 233 Castlereagh street Sydney, 363 King Street, West Melbourne Victoria 3003 and Level 1, West, 237 Ryrie Street, Geelong Victoria 3220

### Assessment Methods



## Master of Information and Communications Technology

---

The Institute uses authentic assessment principles that may include practical exercises, case studies, presentations, reports, online simulations, essays, and examinations. These may include being done under invigilation.

### Entry Requirements

(a) Applicants must have successfully completed a Bachelor's degree (AQF 7) or higher, awarded by a recognised university or higher education institution, in any discipline or equivalent.

(b) Applicants who do not meet these entry requirements but who successfully complete a Graduate Certificate or Graduate Diploma will be eligible for entry into this course.

### Language requirements

Language proficiency

- IELTS Academic: 6.5 with no band less than 6.0; or
- TOEFL: 575 or better; or
- TOEFL IBT (International Benchmark Test): 91 or better; or
- TOEFL CBT (Computer Based Test): 235 or better; or
- Academic PTE (Pearson Test of English): 56 or better; or
- Cambridge English: CAE and CPE (from 2015): 176 or better; or
- General Certificate of Education (GCE): A Levels with a C or better in English; or
- KITE: all bands B2 with a result greater than 450 in each band; or
- Duolingo: overall 115 with no band less than 110.

English Language Test results are valid for two years from the date of the results up to the date of commencement at the Institute. The most recent test supersedes ALL previous tests.

### Fees

The course fees (per semester) are available through the following link [Institution Details - Polytechnic Institute Australia Pty Ltd](#) and are based on a standard full-time study load and duration. Your course fees and duration may vary if you have applied for and been granted Advanced Standing. Tuition fees may increase during your studies. Students are advised in advance of any increase in tuition fees being implemented.

